



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 43 November 2021

County of San Mateo,
Mechanical



GORDIAN®

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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2021.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

The Adjustment Factors Include:

BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
 - home office overhead
 - insurance, bonds, and indemnification
 - project meetings, training, management and supervision
 - mobilization and close-out for the contract and each Job Order and
 - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

CONSTRUCTION RELATED COSTS:

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

PRICE VARIATIONS:

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

GENERAL COSTS:

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

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Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
<input checked="" type="checkbox"/>		No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.		

General Interpretations:

WORKING HEIGHT:

- Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

ASSEMBLIES:

- Assembly unit prices take precedence over individual component pricing.

TESTING:

- Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

MISCELLANEOUS:

- For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

SPECIFICATIONS:

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

Using The Construction Task Catalog®

Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{ height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{ height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 General Requirements

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001 Reimbursable Fees ^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
<p>Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.</p>			

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker.....	67.27
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	3.36
		<i>For Apprentice, Deduct</i>	-13.45
01 22 20 00-0003	HR	Insulator.....	130.02
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	6.50
		<i>For Apprentice, Deduct</i>	-26.00
01 22 20 00-0004	HR	Boilermaker.....	107.50
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.38
		<i>For Apprentice, Deduct</i>	-21.50
01 22 20 00-0005	HR	Brick Layer.....	103.89
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.19
		<i>For Apprentice, Deduct</i>	-20.78
01 22 20 00-0006	HR	Carpenter.....	115.85
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.79
		<i>For Apprentice, Deduct</i>	-23.17
01 22 20 00-0007	HR	Carpet, Linoleum.....	113.58
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.68
		<i>For Apprentice, Deduct</i>	-22.72
01 22 20 00-0008	HR	Cement Mason.....	82.71
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	4.14
		<i>For Apprentice, Deduct</i>	-16.54
01 22 20 00-0009	HR	Drywall Finisher.....	108.90
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.45
		<i>For Apprentice, Deduct</i>	-21.78
01 22 20 00-0010	HR	Electrician.....	136.06
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	6.80
		<i>For Apprentice, Deduct</i>	-27.21
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	104.83
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	102.52
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	5.13
		<i>For Apprentice, Deduct</i>	-20.50
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	100.28
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3).....	99.77
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	4.99
		<i>For Apprentice, Deduct</i>	-19.95
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4).....	97.95
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5).....	96.30
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6).....	94.57
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			
		<i>For Foreman, Add</i>	4.73
		<i>For Apprentice, Deduct</i>	-18.91
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7).....	93.08
<p>Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.</p>			

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019 HR Equipment Operator, Light (Group 8).....	91.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier	108.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.41	
For Apprentice, Deduct	-21.65	
01 22 20 00-0021 HR Laborer	78.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	108.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.42	
For Apprentice, Deduct	-21.67	
01 22 20 00-0023 HR Marble Setter	110.57	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.53	
For Apprentice, Deduct	-22.11	
01 22 20 00-0024 HR Millwright.....	106.53	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.31	
01 22 20 00-0025 HR Mold Removal Worker	82.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.11	
For Apprentice, Deduct	-16.46	
01 22 20 00-0026 HR Painter, Ordinary.....	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0027 HR Painter, Structural Steel.....	97.02	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.85	
For Apprentice, Deduct	-19.40	
01 22 20 00-0028 HR Paperhanger	92.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.64	
For Apprentice, Deduct	-18.54	
01 22 20 00-0029 HR Pile Drivers	117.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.87	
For Apprentice, Deduct	-23.46	
01 22 20 00-0030 HR Plasterer	103.56	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.18	
For Apprentice, Deduct	-20.71	
01 22 20 00-0031 HR Plumber	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0032 HR Powderman.....	82.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.12	
For Apprentice, Deduct	-16.49	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	100.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.09	
01 22 20 00-0034 HR Roofer, Composite.....	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0035 HR Roofer, Tile/Slate	106.65	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.33	
For Apprentice, Deduct	-21.33	
01 22 20 00-0036 HR Sheet Metal Worker	138.86	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.94	
For Apprentice, Deduct	-27.77	
01 22 20 00-0037 HR Sprinkler Installer	133.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.68	
For Apprentice, Deduct	-26.72	
01 22 20 00-0038 HR Steam / Pipe Fitter	139.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	6.97	
For Apprentice, Deduct	-27.89	
01 22 20 00-0039 HR Stone Mason.....	102.95	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.15	
For Apprentice, Deduct	-20.59	
01 22 20 00-0040 HR Iron Worker (Structural)	103.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.16	
For Apprentice, Deduct	-20.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0041 HR Tile Layer.....	92.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.62	
For Apprentice, Deduct	-18.49	
01 22 20 00-0042 HR Terrazzo Worker.....	100.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.06	
01 22 20 00-0043 HR Truck Driver, Light (Group 1).....	79.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.99	
For Apprentice, Deduct	-15.95	
01 22 20 00-0044 HR Truck Driver, Medium (Group 2).....	80.18	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0045 HR Truck Driver, Heavy (Group 3).....	80.59	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.03	
For Apprentice, Deduct	-16.12	
01 22 20 00-0046 HR Truck Driver, Heavy (Group 4).....	81.08	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0047 HR Class I Diver.....	204.13	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class III Diver Tender.....	123.27	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR D1 Certified Welder.....	108.93	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 Rates For Services (01 22 20)		
01 22 20 00-0051 HR Watch/Guard Person, Unarmed.....	34.42	
01 22 20 00-0052 HR Watch/Guard Person, Armed.....	44.36	
01 22 20 00-0053 HR Surveyor (Rod Person).....	99.08	
01 22 20 00-0054 HR Senior Surveyor (Party Chief).....	108.23	
01 22 20 00-0055 HR Surveyor (Instrument person).....	103.50	
01 22 20 00-0056 HR On-Site Certified Materials Testing Technician.....	96.92	
01 22 20 00-0057 HR Certified Industrial Hygienist.....	130.82	
01 22 20 00-0058 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.56	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0059 HR Fire Watch Laborer.....	78.30	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0060 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0061 HR Principal Architect.....	212.52	
01 22 20 00-0062 HR Senior Architect.....	187.22	
01 22 20 00-0063 HR Architect.....	142.94	
01 22 20 00-0064 HR Principal Engineer.....	212.52	
01 22 20 00-0065 HR Senior Engineer.....	161.92	
01 22 20 00-0066 HR Engineer.....	129.03	
01 22 20 00-0067 HR Draft Person.....	76.53	
01 22 20 00-0068 HR Project Manager.....	151.80	
01 22 20 00-0069 Rates For Traffic Control (01 22 20)		
01 22 20 00-0070 DAY Pilot Vehicle With Driver.....	957.60	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0071 HR Flagperson For Traffic Control.....	78.30	
01 22 20 00-0072 Mobilize Equipment (01 22 20)		
01 22 20 00-0073 HR Escort Vehicle With Driver.....	89.23	
01 22 20 00-0074 HR Transport Vehicle With Driver.....	122.32	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0069 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Man Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform <small>(01 22 23 00-0003)</small>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform 428.11 <i>For Four-Wheel Drive, Add</i> 96.32	
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform 1,077.18 <i>For Four-Wheel Drive, Add</i> 242.37	
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform 2,416.75 <i>For Four-Wheel Drive, Add</i> 543.77	
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform 628.36 <i>For Four-Wheel Drive, Add</i> 141.38	
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform 1,498.38 <i>For Four-Wheel Drive, Add</i> 337.14	
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform 3,279.88 <i>For Four-Wheel Drive, Add</i> 737.97	
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform 1,222.18 <i>For Four-Wheel Drive, Add</i> 274.99	
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform 2,962.24 <i>For Four-Wheel Drive, Add</i> 666.50	
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform 6,214.50 <i>For Four-Wheel Drive, Add</i> 1,398.26	
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform 1,740.06 <i>For Four-Wheel Drive, Add</i> 391.51	
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform 4,189.95 <i>For Four-Wheel Drive, Add</i> 942.74	
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform 10,440.36 <i>For Four-Wheel Drive, Add</i> 2,349.08	
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform 2,119.84 <i>For Four-Wheel Drive, Add</i> 476.96	
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform 5,406.62 <i>For Four-Wheel Drive, Add</i> 1,216.49	
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform 12,290.90 <i>For Four-Wheel Drive, Add</i> 2,765.45	

01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0002)</small>	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 488.70	
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,068.17	
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,651.57	
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 628.34	
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,452.15	
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 3,246.40	
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 1,096.10	
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,583.16	
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 6,281.95	
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 2,129.36	
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 5,026.68	
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform 12,287.44	

01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform <small>(01 22 23 00-0020)</small>	
	Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 383.98	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 963.45	
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,317.86	
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 474.74	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,026.28	
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,548.25	
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 474.74	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 1,026.28	
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform 2,548.25	

01 22 23 00-0050	Platform Lifts <small>(01 22 23 00-0001)</small>	
	Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0051	Electric, Scissor Platform Lifts <small>(01 22 23 00-0050)</small>	
	Note: For use on paved surfaces.	
01 22 23 00-0052	DAY 17' Electric, Scissor Platform Lift 159.72	
01 22 23 00-0053	WK 17' Electric, Scissor Platform Lift 319.44	
01 22 23 00-0054	MO 17' Electric, Scissor Platform Lift 653.40	
01 22 23 00-0055	DAY 20' Electric, Scissor Platform Lift 174.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	348.48	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	696.96	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	225.06	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	450.12	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	965.58	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	290.40	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	573.54	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,270.50	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	312.18	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	609.84	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,379.40	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	406.56	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,009.14	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	2,809.62	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	326.70	
For Four-Wheel Drive, Add	65.34	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	638.88	
For Four-Wheel Drive, Add	127.78	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,560.90	
For Four-Wheel Drive, Add	312.18	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	333.96	
For Four-Wheel Drive, Add	66.79	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	762.30	
For Four-Wheel Drive, Add	152.46	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,669.80	
For Four-Wheel Drive, Add	333.96	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	370.26	
For Four-Wheel Drive, Add	74.05	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	849.42	
For Four-Wheel Drive, Add	169.88	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	1,887.60	
For Four-Wheel Drive, Add	377.52	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	392.04	
For Four-Wheel Drive, Add	78.41	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	914.76	
For Four-Wheel Drive, Add	182.95	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,250.60	
For Four-Wheel Drive, Add	450.12	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	733.26	
For Four-Wheel Drive, Add	146.65	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,611.72	
For Four-Wheel Drive, Add	322.34	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	3,963.96	
For Four-Wheel Drive, Add	792.79	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift.....	143.20	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift.....	405.73	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift.....	819.42	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift.....	198.89	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift.....	421.64	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift.....	1,431.99	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift.....	334.13	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift.....	811.46	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift.....	2,370.74	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift.....	358.00	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift.....	891.02	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift.....	2,681.00	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift.....	763.73	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift.....	190.93	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift.....	381.86	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift.....	793.96	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator.....	1,173.19	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator.....	4,809.08	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator.....	18,005.01	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0109 DAY 38' Bucket Truck With Full-Time Operator.....	1,240.45	
For Equipment Without Operator, Deduct	-644.75	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0110 WK 38' Bucket Truck With Full-Time Operator	5,025.26	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0111 MO 38' Bucket Truck With Full-Time Operator	18,581.49	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0112 DAY 48' Bucket Truck With Full-Time Operator	1,413.39	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0113 WK 48' Bucket Truck With Full-Time Operator	5,337.52	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0114 MO 48' Bucket Truck With Full-Time Operator	19,254.05	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator	1,797.71	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator	6,586.56	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator	22,616.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator	1,989.87	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator	7,259.12	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator	25,018.85	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-0121 Air Equipment <small>(01 22 23)</small>		
01 22 23 00-0122 Air Compressors <small>(01 22 23 00-0121)</small>		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor	154.66	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor	463.97	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor	1,288.81	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor	185.59	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor	546.46	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor	1,546.58	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor	247.45	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor	556.77	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor	1,226.95	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor	350.56	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor	886.70	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor	2,113.65	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor	779.47	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor	1,876.51	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor	4,676.84	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor	938.26	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor	2,309.55	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor	5,670.78	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,092.91	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor	2,449.77	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor	6,532.73	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,360.99	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor	3,062.22	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor	8,165.92	
01 22 23 00-0150 Portable Negative Air Machines <small>(01 22 23 00-0121)</small>		
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine	81.38	
01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine	334.24	
01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine	1,009.97	
01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines	14.19	
01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines	34.14	
01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	181.16	
01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines	1.37	
01 22 23 00-0158 Portable Air Scrubbers <small>(01 22 23 00-0121)</small>		
Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.		
01 22 23 00-0159 DAY Up To 1,000 CFM, Portable Air Scrubber	87.16	
01 22 23 00-0160 WK Up To 1,000 CFM, Portable Air Scrubber	362.28	
01 22 23 00-0161 MO Up To 1,000 CFM, Portable Air Scrubber	1,002.85	
01 22 23 00-0162 DAY >1,000 to 2,000 CFM, Portable Air Scrubber	110.26	
01 22 23 00-0163 WK >1,000 to 2,000 CFM, Portable Air Scrubber	456.79	
01 22 23 00-0164 MO >1,000 to 2,000 CFM, Portable Air Scrubber	1,338.88	
01 22 23 00-0165 DAY >2,000 To 5,000 CFM, Portable Air Scrubber	141.76	
01 22 23 00-0166 WK >2,000 To 5,000 CFM, Portable Air Scrubber	603.81	
01 22 23 00-0167 MO >2,000 To 5,000 CFM, Portable Air Scrubber	1,690.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0168 EA First Stage Pre-Filter For Portable Air Scrubbers	20.49	
01 22 23 00-0169 EA Second Stage Pre-Filter For Portable Air Scrubbers	28.89	
01 22 23 00-0170 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers.....	307.17	
01 22 23 00-0171 Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0172 Pavers And Rollers (01 22 23 00-0171)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0173 Pavers (01 22 23 00-0172)		
01 22 23 00-0174 DAY 10' Wide Paving Machine With Full-Time Operator	3,213.16	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0175 WK 10' Wide Paving Machine With Full-Time Operator	13,650.85	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0176 MO 10' Wide Paving Machine With Full-Time Operator	51,794.30	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0172)		
01 22 23 00-0178 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,167.25	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0179 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,107.16	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0180 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	20,324.08	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0181 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,309.69	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0182 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,166.47	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0183 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	21,923.40	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0184 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,316.17	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0185 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	5,745.59	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0186 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	22,234.20	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0172)		
01 22 23 00-0188 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,225.52	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0189 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,175.79	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0190 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,719.06	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0191 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,497.47	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0192 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,726.17	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0193 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,454.36	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0194 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,562.22	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0195 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,134.09	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0196 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,593.96	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0197 Towed, Padfoot Rollers (01 22 23 00-0172)		
01 22 23 00-0198 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller	123.02	
01 22 23 00-0199 WK 48" Wide, 40" Diameter, Towed Padfoot Roller	356.12	
01 22 23 00-0200 MO 48" Wide, 40" Diameter, Towed Padfoot Roller	1,048.95	
01 22 23 00-0201 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller	155.40	
01 22 23 00-0202 WK 60" Wide, 60" Diameter, Towed Padfoot Roller	433.82	
01 22 23 00-0203 MO 60" Wide, 60" Diameter, Towed Padfoot Roller	1,845.38	
01 22 23 00-0204 Static Rollers (01 22 23 00-0172)		
01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,257.89	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,454.22	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0207 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	21,632.03	
For Equipment Without Operator, Deduct		-17,293.78
01 22 23 00-0208 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,400.35	
For Equipment Without Operator, Deduct		-798.17
01 22 23 00-0209 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,842.72	
For Equipment Without Operator, Deduct		-3,990.87
01 22 23 00-0210 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	22,706.88	
For Equipment Without Operator, Deduct		-17,293.78

01	01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0211	Ride-On Self-Propelled, Smooth Drum Vibratory Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0212	DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,212.57	
	<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0213	WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,214.65	
	<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0214	MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,531.28	
	<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0215	DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,296.75	
	<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0216	WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,460.69	
	<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0217	MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,172.30	
	<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0218	DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,465.09	
	<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0219	WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,952.79	
	<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0220	MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,473.78	
	<i>For Equipment Without Operator, Deduct</i>	-17,293.78	

01 22 23 00-0221	Steel Roadway Plates <small>(01 22 23 00-0171)</small>		
	Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0222	EA Placement And Removal Of Steel Roadway Plates.....	50.85	
01 22 23 00-0223	DAY 1" x 4' x 8' Steel Plate	37.51	
01 22 23 00-0224	WK 1" x 4' x 8' Steel Plate	88.56	
01 22 23 00-0225	MO 1" x 4' x 8' Steel Plate	116.55	
01 22 23 00-0226	DAY 1" x 4' x 10' Steel Plate	50.01	
01 22 23 00-0227	WK 1" x 4' x 10' Steel Plate	112.53	
01 22 23 00-0228	MO 1" x 4' x 10' Steel Plate	137.53	
01 22 23 00-0229	DAY 1" x 5' x 10' Steel Plate	52.10	
01 22 23 00-0230	WK 1" x 5' x 10' Steel Plate	117.73	
01 22 23 00-0231	MO 1" x 5' x 10' Steel Plate	312.57	
01 22 23 00-0232	DAY 1" x 6' x 8' Steel Plate	33.34	
01 22 23 00-0233	WK 1" x 6' x 8' Steel Plate	75.02	
01 22 23 00-0234	MO 1" x 6' x 8' Steel Plate	200.04	
01 22 23 00-0235	DAY 1" x 6' x 10' Steel Plate	62.51	
01 22 23 00-0236	WK 1" x 6' x 10' Steel Plate	82.31	
01 22 23 00-0237	MO 1" x 6' x 10' Steel Plate	219.84	
01 22 23 00-0238	DAY 1" x 6' x 12' Steel Plate	87.52	
01 22 23 00-0239	WK 1" x 6' x 12' Steel Plate	112.00	
01 22 23 00-0240	MO 1" x 6' x 12' Steel Plate	303.19	
01 22 23 00-0241	DAY 1" x 8' x 10' Steel Plate	55.22	
01 22 23 00-0242	WK 1" x 8' x 10' Steel Plate	123.99	
01 22 23 00-0243	MO 1" x 8' x 10' Steel Plate	330.28	
01 22 23 00-0244	DAY 1" x 8' x 12' Steel Plate	100.02	
01 22 23 00-0245	WK 1" x 8' x 12' Steel Plate	123.99	
01 22 23 00-0246	MO 1" x 8' x 12' Steel Plate	600.13	
01 22 23 00-0247	DAY 1" x 8' x 16' Steel Plate	133.36	
01 22 23 00-0248	WK 1" x 8' x 16' Steel Plate	300.07	
01 22 23 00-0249	MO 1" x 8' x 16' Steel Plate	800.18	
01 22 23 00-0250	LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.15	0.97
01 22 23 00-0251	EA Removal And Resetting Of Steel Roadway Plate	28.25	

01 22 23 00-0252	Street Sweepers <small>(01 22 23 00-0171)</small>		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0253	DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	955.91	
	<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0254	WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,572.72	
	<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0255	MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,206.31	
	<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0256	DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	1,677.94	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
	<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0257	WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	7,473.37	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
	<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0258	MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator.....	29,562.76	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
	<i>For Equipment Without Operator, Deduct</i>	-16,391.41	

01 22 23 00-0259	Earthmoving Equipment <small>(01 22 23)</small>		
01 22 23 00-0260	Skid-Steer Loaders <small>(01 22 23 00-0259)</small>		
	Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0261	DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,077.82	
	<i>For Equipment Without Operator, Deduct</i>	-756.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0262 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,625.51	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0263 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	18,421.30	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0264 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,162.51	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0265 WK 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	4,778.76	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0266 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	18,757.38	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0267 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,186.71	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0268 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	4,999.22	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0269 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	19,342.15	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0270 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,280.81	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0271 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,308.41	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0272 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	20,363.82	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0273 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,442.12	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0274 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,920.07	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0275 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	21,869.43	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0276 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders	268.86	
01 22 23 00-0277 WK Hydraulic Hammer Attachment For Skid-Steer Loaders	893.96	
01 22 23 00-0278 MO Hydraulic Hammer Attachment For Skid-Steer Loaders	2,379.41	
01 22 23 00-0279 DAY Forklift Attachment For Skid-Steer Loaders	57.80	
01 22 23 00-0280 WK Forklift Attachment For Skid-Steer Loaders	154.59	
01 22 23 00-0281 MO Forklift Attachment For Skid-Steer Loaders	436.90	
01 22 23 00-0282 DAY Backhoe Attachment For Skid-Steer Loaders	127.71	
01 22 23 00-0283 WK Backhoe Attachment For Skid-Steer Loaders	306.50	
01 22 23 00-0284 MO Backhoe Attachment For Skid-Steer Loaders	762.22	
01 22 23 00-0285 DAY Broom Attachment For Skid-Steer Loaders	126.36	
01 22 23 00-0286 WK Broom Attachment For Skid-Steer Loaders	342.80	
01 22 23 00-0287 MO Broom Attachment For Skid-Steer Loaders	907.40	
01 22 23 00-0288 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	110.23	
01 22 23 00-0289 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	303.81	
01 22 23 00-0290 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	829.43	
01 22 23 00-0291 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	30.38	
01 22 23 00-0292 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	79.49	
01 22 23 00-0293 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	233.79	
01 22 23 00-0294 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	40.91	
01 22 23 00-0295 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	101.70	
01 22 23 00-0296 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	303.93	
01 22 23 00-0297 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	59.61	
01 22 23 00-0298 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	181.20	
01 22 23 00-0299 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	537.72	
01 22 23 00-0300 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	12.10	
01 22 23 00-0301 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	28.23	
01 22 23 00-0302 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	75.28	
01 22 23 00-0303 Bulldozers <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0304 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,228.56	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0305 WK 70 HP, D3 Bulldozer With Full-Time Operator	5,688.05	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0306 MO 70 HP, D3 Bulldozer With Full-Time Operator	22,328.49	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0307 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,431.57	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0308 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	6,508.23	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0309 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	24,845.84	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0310 DAY 140 HP, D6 Bulldozer With Full-Time Operator	2,008.12	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0311 WK 140 HP, D6 Bulldozer With Full-Time Operator	8,814.45	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0312 MO 140 HP, D6 Bulldozer With Full-Time Operator	31,748.27	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0313 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,519.72	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0314 WK 200 HP, D7 Bulldozer With Full-Time Operator	10,868.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0315 MO 200 HP, D7 Bulldozer With Full-Time Operator	37,919.85	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0316 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,128.75	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0317 WK 335 HP, D8 Bulldozer With Full-Time Operator	13,305.08	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0318 MO 335 HP, D8 Bulldozer With Full-Time Operator	45,228.30	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0319 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,469.81	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0320 WK 460 HP, D9 Bulldozer With Full-Time Operator	14,661.21	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0321 MO 460 HP, D9 Bulldozer With Full-Time Operator	49,288.55	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0322 Motor Scraper <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0323 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	1,770.17	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0324 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	14,878.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0325 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	28,944.40	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0326 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,162.96	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0327 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	9,450.02	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0328 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	33,671.23	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0329 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	2,542.43	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0330 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	10,961.27	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0331 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	38,198.33	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0332 Hydraulic Excavators <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0333 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,152.11	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0334 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,242.78	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0335 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	21,488.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0336 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,251.74	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0337 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	5,681.93	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0338 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	23,245.27	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0339 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,283.20	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0340 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	5,845.79	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0341 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	23,533.66	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0342 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,315.98	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0343 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	5,996.55	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0344 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	23,822.06	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0345 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,342.19	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0346 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,153.85	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0347 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	24,110.46	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0348 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,696.14	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0349 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	7,563.07	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0350 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	28,010.39	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0351 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,748.57	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0352 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	7,792.48	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0353 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	28,698.61	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0354 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,846.89	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0355 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,185.75	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0356 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	29,878.42	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0357 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	1,958.32	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0358 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	8,624.90	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0359 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator.....	31,189.32	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0360 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	1,991.09	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0361 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	8,755.99	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0362 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	31,582.59	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0363 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,305.71	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0364 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	10,021.01	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0365 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator.....	35,384.20	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0366 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	2,757.97	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0367 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	11,816.94	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0368 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator.....	40,758.89	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0369 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	91.76	
01 22 23 00-0370 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	353.94	
01 22 23 00-0371 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0372 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	406.38	
01 22 23 00-0373 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,074.94	
01 22 23 00-0374 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,008.52	
01 22 23 00-0375 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	629.23	
01 22 23 00-0376 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,605.85	
01 22 23 00-0377 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,175.22	
01 22 23 00-0378 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	878.30	
01 22 23 00-0379 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,366.17	
01 22 23 00-0380 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,633.15	
01 22 23 00-0381 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	183.53	
01 22 23 00-0382 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	734.10	
01 22 23 00-0383 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,202.31	
01 22 23 00-0384 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	262.18	
01 22 23 00-0385 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,048.72	
01 22 23 00-0386 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,146.16	
01 22 23 00-0387 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	288.40	
01 22 23 00-0388 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,140.48	
01 22 23 00-0389 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,408.34	
01 22 23 00-0390 Mini-Excavators <small>(01 22 23 00-0259)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0391 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,073.46	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0392 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	4,770.86	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0393 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	19,011.06	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0394 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,080.01	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0395 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	4,790.52	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0396 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	19,423.99	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0397 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,112.79	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0398 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	4,882.28	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0399 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	19,482.98	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0400 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,125.89	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0401 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	4,928.16	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0402 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	19,509.20	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0403 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,204.55	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0404 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	4,993.71	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0405 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	20,269.52	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0406 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,211.10	
<i>For Equipment Without Operator, Deduct</i>	-798.17	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0407 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,321.43	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0408 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	20,302.30	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0409 Road Graders <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0410 DAY 60 HP Road Grader With Full-Time Operator.....	1,348.61	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0411 WK 60 HP Road Grader With Full-Time Operator.....	5,479.89	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0412 MO 60 HP Road Grader With Full-Time Operator.....	21,746.72	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0413 DAY 80 HP Road Grader With Full-Time Operator.....	1,510.92	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0414 WK 80 HP Road Grader With Full-Time Operator.....	5,931.53	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0415 MO 80 HP Road Grader With Full-Time Operator.....	23,115.76	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0416 DAY 130 HP Road Grader With Full-Time Operator.....	1,401.01	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0417 WK 130 HP Road Grader With Full-Time Operator.....	6,402.23	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0418 MO 130 HP Road Grader With Full-Time Operator.....	25,911.22	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0419 Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0420 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,170.99	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0421 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	4,876.32	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0422 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	19,377.58	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0423 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,210.93	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0424 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,016.13	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0425 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	20,229.74	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0426 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,272.52	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0427 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,169.25	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0428 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	20,669.13	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0429 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,547.14	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0430 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	5,988.12	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0431 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	23,012.57	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0432 Heavy Duty Construction Loaders <small>(01 22 23 00-0259)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0433 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,266.40	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0434 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	5,842.17	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0435 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	22,840.48	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0436 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,655.39	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0437 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,267.18	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0438 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,056.58	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0439 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,741.83	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0440 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,497.69	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0441 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	23,632.86	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0442 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,979.54	
<i>For Equipment Without Operator, Deduct</i>	-798.17	
01 22 23 00-0443 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,124.39	
<i>For Equipment Without Operator, Deduct</i>	-3,990.87	
01 22 23 00-0444 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	25,217.63	
<i>For Equipment Without Operator, Deduct</i>	-17,293.78	
01 22 23 00-0445 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator.....	2,591.84	
<i>For Equipment Without Operator, Deduct</i>	-798.17	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 22 23 00-0446	WK		7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,151.15 -3,990.87	
	01 22 23 00-0447	MO		7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	38,760.21 -17,293.78	
	01 22 23 00-0448	DAY		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,625.73 -798.17	
	01 22 23 00-0449	WK		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,914.26 -3,990.87	
	01 22 23 00-0450	MO		13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	68,865.15 -17,293.78	
01 22 23 00-0451	Shoring <small>(01 22 23 00-0259)</small>					
	Note: Includes delivery to job site and pick-up when complete.					
01 22 23 00-0452	Aluminum Hydraulic Shoring <small>(01 22 23 00-0451)</small>					
	Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.					
	01 22 23 00-0453	WK		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	70.11	
	01 22 23 00-0454	MO		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	206.79	
	01 22 23 00-0455	WK		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	94.05	
	01 22 23 00-0456	MO		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	277.41	
	01 22 23 00-0457	WK		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	174.39	
	01 22 23 00-0458	MO		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	514.46	
	01 22 23 00-0459	EA		Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	24.66	
	01 22 23 00-0460	EA		Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	39.46	
	01 22 23 00-0461	EA		Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	65.76	
01 22 23 00-0462	Trench Boxes/Trench Shields <small>(01 22 23 00-0259)</small>					
	Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.					
	01 22 23 00-0463	WK		4' x 6' Trench Box With Up To 48" Spreaders.....	188.87	
	01 22 23 00-0464	MO		4' x 6' Trench Box With Up To 48" Spreaders.....	566.60	
	01 22 23 00-0465	WK		6' x 6' Trench Box With Up To 48" Spreaders.....	213.24	
	01 22 23 00-0466	MO		6' x 6' Trench Box With Up To 48" Spreaders.....	639.71	
	01 22 23 00-0467	WK		8' x 6' Trench Box With Up To 48" Spreaders.....	225.42	
	01 22 23 00-0468	MO		8' x 6' Trench Box With Up To 48" Spreaders.....	676.27	
	01 22 23 00-0469	WK		4' x 8' Trench Box With Up To 48" Spreaders.....	207.14	
	01 22 23 00-0470	MO		4' x 8' Trench Box With Up To 48" Spreaders.....	621.44	
	01 22 23 00-0471	WK		6' x 8' Trench Box With Up To 48" Spreaders.....	243.70	
	01 22 23 00-0472	MO		6' x 8' Trench Box With Up To 48" Spreaders.....	731.10	
	01 22 23 00-0473	WK		8' x 8' Trench Box With Up To 48" Spreaders.....	274.16	
	01 22 23 00-0474	MO		8' x 8' Trench Box With Up To 48" Spreaders.....	822.49	
	01 22 23 00-0475	WK		4' x 10' Trench Box With Up To 48" Spreaders.....	231.52	
	01 22 23 00-0476	MO		4' x 10' Trench Box With Up To 48" Spreaders.....	694.54	
	01 22 23 00-0477	WK		6' x 10' Trench Box With Up To 48" Spreaders.....	274.16	
	01 22 23 00-0478	MO		6' x 10' Trench Box With Up To 48" Spreaders.....	822.49	
	01 22 23 00-0479	WK		8' x 10' Trench Box With Up To 48" Spreaders.....	335.09	
	01 22 23 00-0480	MO		8' x 10' Trench Box With Up To 48" Spreaders.....	999.17	
	01 22 23 00-0481	WK		4' x 12' Trench Box With Up To 48" Spreaders.....	274.16	
	01 22 23 00-0482	MO		4' x 12' Trench Box With Up To 48" Spreaders.....	822.49	
	01 22 23 00-0483	WK		6' x 12' Trench Box With Up To 48" Spreaders.....	335.09	
	01 22 23 00-0484	MO		6' x 12' Trench Box With Up To 48" Spreaders.....	1,005.26	
	01 22 23 00-0485	WK		8' x 12' Trench Box With Up To 48" Spreaders.....	426.48	
	01 22 23 00-0486	MO		8' x 12' Trench Box With Up To 48" Spreaders.....	1,279.42	
	01 22 23 00-0487	WK		4' x 14' Trench Box With Up To 48" Spreaders.....	304.62	
	01 22 23 00-0488	MO		4' x 14' Trench Box With Up To 48" Spreaders.....	913.88	
	01 22 23 00-0489	WK		6' x 14' Trench Box With Up To 48" Spreaders.....	396.01	
	01 22 23 00-0490	MO		6' x 14' Trench Box With Up To 48" Spreaders.....	1,188.04	
	01 22 23 00-0491	WK		8' x 14' Trench Box With Up To 48" Spreaders.....	487.40	
	01 22 23 00-0492	MO		8' x 14' Trench Box With Up To 48" Spreaders.....	1,462.20	
	01 22 23 00-0493	WK		4' x 16' Trench Box With Up To 48" Spreaders.....	335.09	
	01 22 23 00-0494	MO		4' x 16' Trench Box With Up To 48" Spreaders.....	1,005.26	
	01 22 23 00-0495	WK		6' x 16' Trench Box With Up To 48" Spreaders.....	456.94	
	01 22 23 00-0496	MO		6' x 16' Trench Box With Up To 48" Spreaders.....	1,370.81	
	01 22 23 00-0497	WK		8' x 16' Trench Box With Up To 48" Spreaders.....	548.32	
	01 22 23 00-0498	MO		8' x 16' Trench Box With Up To 48" Spreaders.....	1,644.98	
	01 22 23 00-0499	WK		4' x 20' Trench Box With Up To 48" Spreaders.....	396.01	
	01 22 23 00-0500	MO		4' x 20' Trench Box With Up To 48" Spreaders.....	1,188.04	
	01 22 23 00-0501	WK		6' x 20' Trench Box With Up To 48" Spreaders.....	548.32	
	01 22 23 00-0502	MO		6' x 20' Trench Box With Up To 48" Spreaders.....	1,644.98	
	01 22 23 00-0503	WK		8' x 20' Trench Box With Up To 48" Spreaders.....	639.71	
	01 22 23 00-0504	MO		8' x 20' Trench Box With Up To 48" Spreaders.....	1,919.14	
	01 22 23 00-0505	WK		4' x 24' Trench Box With Up To 48" Spreaders.....	548.32	
	01 22 23 00-0506	MO		4' x 24' Trench Box With Up To 48" Spreaders.....	1,644.98	
	01 22 23 00-0507	WK		6' x 24' Trench Box With Up To 48" Spreaders.....	670.18	
	01 22 23 00-0508	MO		6' x 24' Trench Box With Up To 48" Spreaders.....	2,010.52	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0509	WK		8' x 24' Trench Box With Up To 48" Spreaders.....	731.10	
01 22 23 00-0510	MO		8' x 24' Trench Box With Up To 48" Spreaders.....	2,193.30	
01 22 23 00-0511	WK		For Spreaders >48" To 84", Add.....	18.28	
01 22 23 00-0512	MO		For Spreaders >48" To 84", Add.....	54.83	
01 22 23 00-0513	WK		For Spreaders >84" To 120", Add.....	109.66	
01 22 23 00-0514	MO		For Spreaders >84" To 120", Add.....	329.00	
01 22 23 00-0515	WK		For Spreaders >120", Add.....	231.52	
01 22 23 00-0516	MO		For Spreaders >120", Add.....	694.54	
01 22 23 00-0517	WK		8' x 4' Manhole Box.....	287.87	
01 22 23 00-0518	MO		8' x 4' Manhole Box.....	863.61	
01 22 23 00-0519	WK		8' x 8' Manhole Box.....	411.24	
01 22 23 00-0520	MO		8' x 8' Manhole Box.....	1,233.73	
01 22 23 00-0521 Trenchers (01 22 23 00-0259)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0522	DAY		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,102.23	
			For Equipment Without Operator, Deduct.....	-756.53	
01 22 23 00-0523	WK		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	4,960.16	
			For Equipment Without Operator, Deduct.....	-3,782.63	
01 22 23 00-0524	MO		4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	19,632.31	
			For Equipment Without Operator, Deduct.....	-16,391.41	
01 22 23 00-0525	DAY		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,685.59	
			For Equipment Without Operator, Deduct.....	-756.53	
01 22 23 00-0526	WK		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	6,926.30	
			For Equipment Without Operator, Deduct.....	-3,782.63	
01 22 23 00-0527	MO		5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	25,033.81	
			For Equipment Without Operator, Deduct.....	-16,391.41	
01 22 23 00-0528 Heavy Equipment (Wood Ground Protection) Mats (01 22 23 00-0259)					
Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0259 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.					
01 22 23 00-0529	DAY		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	21.12	
01 22 23 00-0530	WK		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	50.29	
01 22 23 00-0531	MO		14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	105.60	
01 22 23 00-0532	DAY		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	22.18	
01 22 23 00-0533	WK		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	52.80	
01 22 23 00-0534	MO		16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	110.88	
01 22 23 00-0535	Day		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	17.95	
01 22 23 00-0536	WK		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	42.24	
01 22 23 00-0537	MO		16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	89.76	
01 22 23 00-0538	Day		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	20.06	
01 22 23 00-0539	WK		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	47.52	
01 22 23 00-0540	MO		18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	100.32	
01 22 23 00-0541	Day		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	22.18	
01 22 23 00-0542	WK		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	52.80	
01 22 23 00-0543	MO		20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	110.88	
01 22 23 00-0544	Day		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	24.29	
01 22 23 00-0545	WK		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	57.83	
01 22 23 00-0546	MO		24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	121.44	
01 22 23 00-0547	Day		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	19.01	
01 22 23 00-0548	WK		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
01 22 23 00-0549	MO		12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	95.04	
01 22 23 00-0550	Day		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	22.18	
01 22 23 00-0551	WK		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.80	
01 22 23 00-0552	MO		16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	110.88	
01 22 23 00-0553	Day		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	26.40	
01 22 23 00-0554	WK		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	58.08	
01 22 23 00-0555	MO		20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	132.00	
01 22 23 00-0556	Day		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	28.51	
01 22 23 00-0557	WK		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	67.89	
01 22 23 00-0558	MO		24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	142.56	
01 22 23 00-0559	Day		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	30.62	
01 22 23 00-0560	WK		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	72.91	
01 22 23 00-0561	MO		28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	153.12	
01 22 23 00-0562	Day		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.68	
01 22 23 00-0563	WK		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	75.43	
01 22 23 00-0564	MO		30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.40	
01 22 23 00-0565	Day		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	10.16	
01 22 23 00-0566	WK		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	25.40	
01 22 23 00-0567	MO		14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	76.19	
01 22 23 00-0568	Day		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	12.14	
01 22 23 00-0569	WK		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	30.36	
01 22 23 00-0570	MO		14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	91.08	
01 22 23 00-0571	Day		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.87	
01 22 23 00-0572	WK		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.67	
01 22 23 00-0573	MO		16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	104.02	
01 22 23 00-0574	Day		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	14.78	
01 22 23 00-0575	WK		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	36.96	
01 22 23 00-0576	MO		14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	110.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0577	Day			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	16.90	
01 22 23 00-0578	WK			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	42.24	
01 22 23 00-0579	MO			16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	126.72	
01 22 23 00-0580	Day			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.42	
01 22 23 00-0581	WK			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	48.54	
01 22 23 00-0582	MO			16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	145.62	
01 22 23 00-0583	Day			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.94	
01 22 23 00-0584	WK			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	37.35	
01 22 23 00-0585	MO			24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	112.04	
01 22 23 00-0586	Day			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	20.23	
01 22 23 00-0587	WK			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	50.56	
01 22 23 00-0588	MO			30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	151.69	
01 22 23 00-0589	Day			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.49	
01 22 23 00-0590	WK			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	43.72	
01 22 23 00-0591	MO			24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	131.16	
01 22 23 00-0592	Day			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.17	
01 22 23 00-0593	WK			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	72.91	
01 22 23 00-0594	MO			40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	218.74	
01 22 23 00-0595	Day			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	31.09	
01 22 23 00-0596	WK			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	77.72	
01 22 23 00-0597	MO			40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	233.16	
01 22 23 00-0598				Electrical Equipment (01 22 23)		
01 22 23 00-0599				Tripod Mounted Floodlights (01 22 23 00-0598)		
				Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0600	DAY			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	64.93	
01 22 23 00-0601	WK			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	153.61	
01 22 23 00-0602	MO			500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	324.64	
01 22 23 00-0603	DAY			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	64.93	
01 22 23 00-0604	WK			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	190.03	
01 22 23 00-0605	MO			1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	562.18	
01 22 23 00-0606	DAY			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	72.85	
01 22 23 00-0607	WK			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	197.95	
01 22 23 00-0608	MO			2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	483.00	
01 22 23 00-0609				Trailer Mounted Floodlights (01 22 23 00-0598)		
				Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0610	DAY			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	182.11	
01 22 23 00-0611	WK			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	403.82	
01 22 23 00-0612	MO			4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower	870.98	
01 22 23 00-0613				Generator Sets (01 22 23 00-0598)		
01 22 23 00-0614				Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0613)		
				Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0721 for reimbursable fuel fees.		
01 22 23 00-0615	DAY			3.6 KW, 8 HP Gas Powered Generator Set	51.26	
				For LP Or NG Gas, Add	6.41	
				For >160 To 320 Hours Usage Per Month, Add	25.63	
01 22 23 00-0616	WK			3.6 KW, 8 HP Gas Powered Generator Set	184.78	
				For LP Or NG Gas, Add	23.10	
01 22 23 00-0617	MO			3.6 KW, 8 HP Gas Powered Generator Set	512.60	
				For LP Or NG Gas, Add	64.08	
01 22 23 00-0618	DAY			5 KW, 11 HP Gas Powered Generator Set	72.72	
				For LP Or NG Gas, Add	9.09	
01 22 23 00-0619	WK			5 KW, 11 HP Gas Powered Generator Set	232.46	
				For LP Or NG Gas, Add	29.06	
01 22 23 00-0620	MO			5 KW, 11 HP Gas Powered Generator Set	530.48	
				For LP Or NG Gas, Add	66.31	
01 22 23 00-0621	DAY			6.5 KW, 13 HP Gas Powered Generator Set	92.98	
				For LP Or NG Gas, Add	11.62	
01 22 23 00-0622	WK			6.5 KW, 13 HP Gas Powered Generator Set	250.34	
				For LP Or NG Gas, Add	31.29	
01 22 23 00-0623	MO			6.5 KW, 13 HP Gas Powered Generator Set	691.42	
				For LP Or NG Gas, Add	86.43	
01 22 23 00-0624	DAY			10 KW, 18 HP Gas Powered Generator Set	103.71	
				For LP Or NG Gas, Add	12.96	
01 22 23 00-0625	WK			10 KW, 18 HP Gas Powered Generator Set	280.14	
				For LP Or NG Gas, Add	35.02	
01 22 23 00-0626	MO			10 KW, 18 HP Gas Powered Generator Set	804.67	
				For LP Or NG Gas, Add	100.58	
01 22 23 00-0627				Towable, Diesel Powered Generator Sets (01 22 23 00-0613)		
				Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0721 for reimbursable fuel fees.		

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01 22 23 00-0628	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	213.39	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	106.70	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	213.39	
01 22 23 00-0629	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	557.90	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	278.95	
			<i>For >80 Hours Usage Per Week, Add</i>	557.90	
01 22 23 00-0630	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,519.93	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	759.97	
			<i>For >320 Hours Usage Per Month, Add</i>	1,519.93	
01 22 23 00-0631	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	316.20	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	158.10	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	316.20	
01 22 23 00-0632	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	938.40	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	469.20	
			<i>For >80 Hours Usage Per Week, Add</i>	938.40	
01 22 23 00-0633	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,938.00	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	969.00	
			<i>For >320 Hours Usage Per Month, Add</i>	1,938.00	
01 22 23 00-0634	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	346.80	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	173.40	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	346.80	
01 22 23 00-0635	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	969.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	484.50	
			<i>For >80 Hours Usage Per Week, Add</i>	969.00	
01 22 23 00-0636	MO		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,071.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,142.00	
01 22 23 00-0637	DAY		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	372.30	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	186.15	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	372.30	
01 22 23 00-0638	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	510.00	
			<i>For >80 Hours Usage Per Week, Add</i>	1,020.00	
01 22 23 00-0639	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,448.00	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,224.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,448.00	
01 22 23 00-0640	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	408.00	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	204.00	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	408.00	
01 22 23 00-0641	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,157.70	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	578.85	
			<i>For >80 Hours Usage Per Week, Add</i>	1,157.70	
01 22 23 00-0642	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,754.00	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For >160 To 320 Hours Usage Per Month, Add</i>	1,377.00	
			<i>For >320 Hours Usage Per Month, Add</i>	2,754.00	
01 22 23 00-0643	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	459.00	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For >8 To 16 Hours Usage Per Day, Add</i>	229.50	
			<i>For >16 To 24 Hours Usage Per Day, Add</i>	459.00	
01 22 23 00-0644	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,224.00	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For >40 To 80 Hours Usage Per Week, Add</i>	612.00	
			<i>For >80 Hours Usage Per Week, Add</i>	1,224.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0645 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,060.00	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,530.00	
For >320 Hours Usage Per Month, Add	3,060.00	
01 22 23 00-0646 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	474.30	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	237.15	
For >16 To 24 Hours Usage Per Day, Add	474.30	
01 22 23 00-0647 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,275.00	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	637.50	
For >80 Hours Usage Per Week, Add	1,275.00	
01 22 23 00-0648 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,468.00	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,734.00	
For >320 Hours Usage Per Month, Add	3,468.00	
01 22 23 00-0649 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	535.50	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	267.75	
For >16 To 24 Hours Usage Per Day, Add	535.50	
01 22 23 00-0650 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,479.00	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	739.50	
For >80 Hours Usage Per Week, Add	1,479.00	
01 22 23 00-0651 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,978.00	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,989.00	
For >320 Hours Usage Per Month, Add	3,978.00	
01 22 23 00-0652 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	561.00	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	280.50	
For >16 To 24 Hours Usage Per Day, Add	561.00	
01 22 23 00-0653 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,555.50	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	777.75	
For >80 Hours Usage Per Week, Add	1,555.50	
01 22 23 00-0654 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,386.00	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,193.00	
For >320 Hours Usage Per Month, Add	4,386.00	
01 22 23 00-0655 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.50	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	293.25	
For >16 To 24 Hours Usage Per Day, Add	586.50	
01 22 23 00-0656 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,683.00	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	841.50	
For >80 Hours Usage Per Week, Add	1,683.00	
01 22 23 00-0657 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,590.00	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,295.00	
For >320 Hours Usage Per Month, Add	4,590.00	
01 22 23 00-0658 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	306.00	
For >16 To 24 Hours Usage Per Day, Add	612.00	
01 22 23 00-0659 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	892.50	
For >80 Hours Usage Per Week, Add	1,785.00	
01 22 23 00-0660 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,397.00	
For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0661 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	612.00	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	306.00	
For >16 To 24 Hours Usage Per Day, Add	612.00	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0662	WK		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,785.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	892.50	
			For >80 Hours Usage Per Week, Add	1,785.00	
01 22 23 00-0663	MO		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,794.00	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,397.00	
			For >320 Hours Usage Per Month, Add	4,794.00	
01 22 23 00-0664	DAY		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	841.50	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	420.75	
			For >16 To 24 Hours Usage Per Day, Add	841.50	
01 22 23 00-0665	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,091.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,045.50	
			For >80 Hours Usage Per Week, Add	2,091.00	
01 22 23 00-0666	MO		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,120.00	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,060.00	
			For >320 Hours Usage Per Month, Add	6,120.00	
01 22 23 00-0667	DAY		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.50	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	446.25	
			For >16 To 24 Hours Usage Per Day, Add	892.50	
01 22 23 00-0668	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,142.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,071.00	
			For >80 Hours Usage Per Week, Add	2,142.00	
01 22 23 00-0669	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,324.00	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,162.00	
			For >320 Hours Usage Per Month, Add	6,324.00	
01 22 23 00-0670	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	943.50	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	471.75	
			For >16 To 24 Hours Usage Per Day, Add	943.50	
01 22 23 00-0671	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,193.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,096.50	
			For >80 Hours Usage Per Week, Add	2,193.00	
01 22 23 00-0672	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,528.00	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,264.00	
			For >320 Hours Usage Per Month, Add	6,528.00	
01 22 23 00-0673	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	974.10	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	487.05	
			For >16 To 24 Hours Usage Per Day, Add	974.10	
01 22 23 00-0674	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,346.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,173.00	
			For >80 Hours Usage Per Week, Add	2,346.00	
01 22 23 00-0675	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,936.00	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,468.00	
			For >320 Hours Usage Per Month, Add	6,936.00	
01 22 23 00-0676	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,020.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	510.00	
			For >16 To 24 Hours Usage Per Day, Add	1,020.00	
01 22 23 00-0677	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,652.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,326.00	
			For >80 Hours Usage Per Week, Add	2,652.00	
01 22 23 00-0678	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,650.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,825.00	
			For >320 Hours Usage Per Month, Add	7,650.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0679 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,639.87	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	819.94	
For >16 To 24 Hours Usage Per Day, Add	1,639.87	
01 22 23 00-0680 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,239.84	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,119.92	
For >80 Hours Usage Per Week, Add	4,239.84	
01 22 23 00-0681 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	11,212.80	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,606.40	
For >320 Hours Usage Per Month, Add	11,212.80	
01 22 23 00-0682 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,102.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,051.20	
For >16 To 24 Hours Usage Per Day, Add	2,102.40	
01 22 23 00-0683 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,466.24	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,733.12	
For >80 Hours Usage Per Week, Add	5,466.24	
01 22 23 00-0684 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	12,614.40	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,307.20	
For >320 Hours Usage Per Month, Add	12,614.40	
01 22 23 00-0685 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,599.97	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,299.99	
For >16 To 24 Hours Usage Per Day, Add	2,599.97	
01 22 23 00-0686 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,867.84	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,433.92	
For >80 Hours Usage Per Week, Add	6,867.84	
01 22 23 00-0687 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,819.20	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	8,409.60	
For >320 Hours Usage Per Month, Add	16,819.20	
01 22 23 00-0688 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,810.21	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	1,405.11	
For >16 To 24 Hours Usage Per Day, Add	2,810.21	
01 22 23 00-0689 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	6,475.39	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	3,237.70	
For >80 Hours Usage Per Week, Add	6,475.39	
01 22 23 00-0690 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	19,426.18	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	9,713.09	
For >320 Hours Usage Per Month, Add	19,426.18	
01 22 23 00-0691 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	818.07	
01 22 23 00-0692 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,330.15	
01 22 23 00-0693 Cabling For Generator Sets <small>(01 22 23 00-0613)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0694 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set	22.44	
01 22 23 00-0695 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set	39.27	
01 22 23 00-0696 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set	117.81	
01 22 23 00-0697 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.22	
01 22 23 00-0698 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	32.64	
01 22 23 00-0699 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	90.78	
01 22 23 00-0700 Resistive Loadbanks For Generator Sets <small>(01 22 23 00-0613)</small>		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0721 for reimbursable fuel fees.		
01 22 23 00-0701 DAY 100 KW A/C Resistive Loadbank.....	280.50	
01 22 23 00-0702 WK 100 KW A/C Resistive Loadbank.....	533.50	
01 22 23 00-0703 MO 100 KW A/C Resistive Loadbank.....	1,457.50	
01 22 23 00-0704 DAY 650 KW A/C Resistive Loadbank.....	689.82	
01 22 23 00-0705 WK 650 KW A/C Resistive Loadbank.....	1,844.74	
01 22 23 00-0706 MO 650 KW A/C Resistive Loadbank.....	4,703.29	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0707	Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0613)</small>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0708 DAY	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	55.08
01 22 23 00-0709 WK	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	142.80
01 22 23 00-0710 MO	50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	402.90
01 22 23 00-0711	Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0613)</small>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0712 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	122.40
01 22 23 00-0713 WK	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	331.50
01 22 23 00-0714 MO	200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	928.20
01 22 23 00-0715 DAY	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	99.96
01 22 23 00-0716 WK	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	260.10
01 22 23 00-0717 MO	100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	739.50
01 22 23 00-0718 DAY	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	127.50
01 22 23 00-0719 WK	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	321.30
01 22 23 00-0720 MO	200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	872.10
01 22 23 00-0721	Fuel Reimbursement For Generators <small>(01 22 23 00-0613)</small>	
01 22 23 00-0722 EA	Fuel Reimbursement For Generators	1.00
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0723	General Equipment <small>(01 22 23)</small>	
01 22 23 00-0724	Jacks And Bracing <small>(01 22 23 00-0723)</small>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0725	Manual Hydraulic Jacks <small>(01 22 23 00-0724)</small>	
01 22 23 00-0726 DAY	12 Ton Manual Hydraulic Bottle Jack	1.67
01 22 23 00-0727 WK	12 Ton Manual Hydraulic Bottle Jack	7.93
01 22 23 00-0728 MO	12 Ton Manual Hydraulic Bottle Jack	28.50
01 22 23 00-0729 DAY	20 Ton Manual Hydraulic Bottle Jack	2.92
01 22 23 00-0730 WK	20 Ton Manual Hydraulic Bottle Jack	9.18
01 22 23 00-0731 MO	20 Ton Manual Hydraulic Bottle Jack	34.76
01 22 23 00-0732 DAY	50 Ton Manual Hydraulic Bottle Jack	10.43
01 22 23 00-0733 WK	50 Ton Manual Hydraulic Bottle Jack	40.49
01 22 23 00-0734 MO	50 Ton Manual Hydraulic Bottle Jack	145.66
01 22 23 00-0735 DAY	100 Ton Manual Hydraulic Bottle Jack	14.61
01 22 23 00-0736 WK	100 Ton Manual Hydraulic Bottle Jack	58.43
01 22 23 00-0737 MO	100 Ton Manual Hydraulic Bottle Jack	210.46
01 22 23 00-0738	Manual Screw Jacks <small>(01 22 23 00-0724)</small>	
01 22 23 00-0739 DAY	10 To 20 Ton Manual Screw Jack	22.00
01 22 23 00-0740 WK	10 To 20 Ton Manual Screw Jack	59.24
01 22 23 00-0741 MO	10 To 20 Ton Manual Screw Jack	164.17
01 22 23 00-0742	Pressure Washers <small>(01 22 23 00-0723)</small>	
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0743 DAY	2,000 PSI Pressure Washer With Full-Time Operator	796.62
For Equipment Without Operator, Deduct		-626.39
01 22 23 00-0744 WK	2,000 PSI Pressure Washer With Full-Time Operator	3,564.06
For Equipment Without Operator, Deduct		-3,131.94
01 22 23 00-0745 MO	2,000 PSI Pressure Washer With Full-Time Operator	14,671.70
For Equipment Without Operator, Deduct		-13,571.76
01 22 23 00-0746 DAY	2,500 PSI Pressure Washer With Full-Time Operator	748.71
For Equipment Without Operator, Deduct		-626.39
01 22 23 00-0747 WK	2,500 PSI Pressure Washer With Full-Time Operator	3,442.45
For Equipment Without Operator, Deduct		-3,131.94
01 22 23 00-0748 MO	2,500 PSI Pressure Washer With Full-Time Operator	14,362.16
For Equipment Without Operator, Deduct		-13,571.76
01 22 23 00-0749 DAY	3,000 PSI Pressure Washer With Full-Time Operator	796.62
For Equipment Without Operator, Deduct		-626.39
01 22 23 00-0750 WK	3,000 PSI Pressure Washer With Full-Time Operator	3,564.06
For Equipment Without Operator, Deduct		-3,131.94
01 22 23 00-0751 MO	3,000 PSI Pressure Washer With Full-Time Operator	14,671.70
For Equipment Without Operator, Deduct		-13,571.76
01 22 23 00-0752 DAY	3,500 PSI Pressure Washer With Full-Time Operator	758.12
For Equipment Without Operator, Deduct		-626.39
01 22 23 00-0753 WK	3,500 PSI Pressure Washer With Full-Time Operator	3,470.68
For Equipment Without Operator, Deduct		-3,131.94
01 22 23 00-0754 MO	3,500 PSI Pressure Washer With Full-Time Operator	14,437.43
For Equipment Without Operator, Deduct		-13,571.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0755 DAY 4,000 PSI Pressure Washer With Full-Time Operator	862.09	
<i>For Equipment Without Operator, Deduct</i>	-626.39	
01 22 23 00-0756 WK 4,000 PSI Pressure Washer With Full-Time Operator	3,773.57	
<i>For Equipment Without Operator, Deduct</i>	-3,131.94	
01 22 23 00-0757 MO 4,000 PSI Pressure Washer With Full-Time Operator	15,365.71	
<i>For Equipment Without Operator, Deduct</i>	-13,571.76	
01 22 23 00-0758 DAY 5,000 PSI Pressure Washer With Full-Time Operator	814.58	
<i>For Equipment Without Operator, Deduct</i>	-626.39	
01 22 23 00-0759 WK 5,000 PSI Pressure Washer With Full-Time Operator	3,640.05	
<i>For Equipment Without Operator, Deduct</i>	-3,131.94	
01 22 23 00-0760 MO 5,000 PSI Pressure Washer With Full-Time Operator	15,002.00	
<i>For Equipment Without Operator, Deduct</i>	-13,571.76	
01 22 23 00-0761 Confined Space Entry Equipment (01 22 23 00-0723)		
<i>Note: Includes delivery to job site, set-up, and pick-up when complete.</i>		
01 22 23 00-0762 DAY Ventilation Equipment For Confined Space	47.47	
<i>Note: Includes electric or gas blower and ventilation duct up to 25'.</i>		
01 22 23 00-0763 WK Ventilation Equipment For Confined Space	142.42	
<i>Note: Includes electric or gas blower and ventilation duct up to 25'.</i>		
01 22 23 00-0764 MO Ventilation Equipment For Confined Space	424.99	
<i>Note: Includes electric or gas blower and ventilation duct up to 25'.</i>		
01 22 23 00-0765 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	51.47	
01 22 23 00-0766 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	154.42	
01 22 23 00-0767 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	463.26	
01 22 23 00-0768 DAY Confined Space Air Monitor Personnel	756.53	
<i>Note: Per person day.</i>		
01 22 23 00-0769 Space Heaters (01 22 23 00-0723)		
<i>Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.</i>		
01 22 23 00-0770 DAY 150,000 BTU/Hour Space Heater	70.52	
01 22 23 00-0771 WK 150,000 BTU/Hour Space Heater	202.74	
01 22 23 00-0772 MO 150,000 BTU/Hour Space Heater	572.98	
01 22 23 00-0773 DAY 500,000 BTU/Hour Space Heater	149.86	
01 22 23 00-0774 WK 500,000 BTU/Hour Space Heater	370.23	
01 22 23 00-0775 MO 500,000 BTU/Hour Space Heater	936.15	
01 22 23 00-0776 Material Handling Equipment (01 22 23)		
01 22 23 00-0777 Truck Mounted Hydraulic Cranes (01 22 23 00-0776)		
<i>Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.</i>		
01 22 23 00-0778 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,238.04	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0779 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,366.70	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0780 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	21,580.03	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0781 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,348.66	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0782 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,695.49	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0783 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,563.31	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0784 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,459.28	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0785 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,024.27	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0786 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	23,546.59	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0787 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,606.77	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0788 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,466.75	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0789 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,867.87	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0790 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,741.97	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0791 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,382.43	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0792 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	27,612.45	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0793 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,061.54	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0794 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,525.49	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0795 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	31,044.10	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0796 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,264.34	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0797 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,238.37	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	

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01 22 23 00-0798	MO		50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,187.65 -17,769.82	
01 22 23 00-0799	DAY		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,424.13 -820.15	
01 22 23 00-0800	WK		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,816.05 -4,100.73	
01 22 23 00-0801	MO		60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,918.22 -17,769.82	
01 22 23 00-0802	DAY		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,583.91 -820.15	
01 22 23 00-0803	WK		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,393.72 -4,100.73	
01 22 23 00-0804	MO		70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,648.80 -17,769.82	
01 22 23 00-0805	DAY		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,688.38 -820.15	
01 22 23 00-0806	WK		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,750.16 -4,100.73	
01 22 23 00-0807	MO		85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,730.40 -17,769.82	
01 22 23 00-0808	DAY		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,829.73 -820.15	
01 22 23 00-0809	WK		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,278.67 -4,100.73	
01 22 23 00-0810	MO		100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,303.65 -17,769.82	
01 22 23 00-0811	DAY		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,284.50 -820.15 -985.74	
01 22 23 00-0812	WK		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,725.94 -4,100.73	
01 22 23 00-0813	MO		120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,645.45 -17,769.82	
01 22 23 00-0814	DAY		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,597.92 -820.15 -1,111.11	
01 22 23 00-0815	WK		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,822.91 -4,100.73	
01 22 23 00-0816	MO		140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	46,936.36 -17,769.82	
01 22 23 00-0817	DAY		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,163.30 -820.15 -1,337.26	
01 22 23 00-0818	WK		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,801.76 -4,100.73	
01 22 23 00-0819	MO		175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	52,872.92 -17,769.82	
01 22 23 00-0820	DAY		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,556.61 -820.15 -1,494.58	
01 22 23 00-0821	WK		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,178.35 -4,100.73	
01 22 23 00-0822	MO		200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	57,002.69 -17,769.82	

01 22 23 00-0823 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0776)

Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.

01 22 23 00-0824	DAY		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,295.07 -820.15	
01 22 23 00-0825	WK		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,361.28 -4,100.73	
01 22 23 00-0826	MO		75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,551.46 -17,769.82	
01 22 23 00-0827	DAY		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,431.99 -820.15	
01 22 23 00-0828	WK		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,254.09 -4,100.73	
01 22 23 00-0829	MO		100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,229.91 -17,769.82	
01 22 23 00-0830	DAY		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,616.35 -820.15	
01 22 23 00-0831	WK		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,599.96 -4,100.73	
01 22 23 00-0832	MO		125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	43,266.27 -17,769.82	
01 22 23 00-0833	DAY		150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,985.08 -820.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0834 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	13,945.82	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0835 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	47,297.72	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0836 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,160.23	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0837 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	15,291.69	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0838 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	51,339.00	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0839 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,335.38	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0840 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,637.55	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0841 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	55,380.28	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0842 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,913.05	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0843 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	18,708.58	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0844 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	61,584.78	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0845 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	8,465.15	
<i>For Equipment Without Operator, Deduct</i>	-820.15	
01 22 23 00-0846 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	31,368.31	
<i>For Equipment Without Operator, Deduct</i>	-4,100.73	
01 22 23 00-0847 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	99,578.72	
<i>For Equipment Without Operator, Deduct</i>	-17,769.82	
01 22 23 00-0848 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts <small>(01 22 23 00-0778)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0849 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,345.80	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0850 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,224.78	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0851 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	19,492.81	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0852 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,407.82	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0853 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,364.34	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0854 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	19,802.95	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0855 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,392.32	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0856 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,434.13	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0857 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	20,268.16	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0858 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,570.65	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
01 22 23 00-0859 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,899.34	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
01 22 23 00-0860 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	21,353.65	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
01 22 23 00-0861 Straight Mast, Rough Terrain Construction Forklifts <small>(01 22 23 00-0778)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0862 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,139.55	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	76.60	
01 22 23 00-0863 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	4,828.58	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	209.19	
01 22 23 00-0864 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	18,785.30	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	478.78	
01 22 23 00-0865 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,159.71	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	80.64	
01 22 23 00-0866 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	4,883.63	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	220.20	
01 22 23 00-0867 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	18,911.30	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	503.98	
01 22 23 00-0868 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,268.26	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	102.35	

01	General Requirements
01 20	Price and Payment Procedures
01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0869 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,186.01	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	280.68	
01 22 23 00-0870 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	19,609.11	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	643.54	
01 22 23 00-0871 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,328.04	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	114.30	
01 22 23 00-0872 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,160.12	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	275.50	
01 22 23 00-0873 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	19,820.47	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	685.81	
01 22 23 00-0874 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0776)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0875 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,082.18	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	65.13	
01 22 23 00-0876 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,526.97	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	148.87	
01 22 23 00-0877 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	18,174.71	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	356.66	
01 22 23 00-0878 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,089.93	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	66.68	
01 22 23 00-0879 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,550.23	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	153.52	
01 22 23 00-0880 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	18,228.99	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	367.52	
01 22 23 00-0881 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,252.75	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	99.24	
01 22 23 00-0882 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	4,906.89	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	224.85	
01 22 23 00-0883 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,105.13	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	542.74	
01 22 23 00-0884 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,268.26	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	102.35	
01 22 23 00-0885 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,038.70	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	251.21	
01 22 23 00-0886 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,570.35	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	635.79	
01 22 23 00-0887 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,407.82	
<i>For Equipment Without Operator, Deduct</i>	-756.53	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	130.26	
01 22 23 00-0888 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,263.55	
<i>For Equipment Without Operator, Deduct</i>	-3,782.63	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	296.18	
01 22 23 00-0889 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	19,958.02	
<i>For Equipment Without Operator, Deduct</i>	-16,391.41	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	713.32	
01 22 23 00-0890 Chain Hoists (01 22 23 00-0776)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0891 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0892 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0893 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0894 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0895 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0896 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0897 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0898 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0899 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0900 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0901 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0902 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0903 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0904 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0905 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0906 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0907 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0908 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0909 Roof Swing Hoist (01 22 23 00-0776) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0910 DAY Up To 400#, Manual Swing Roof Hoist.....	80.46	
01 22 23 00-0911 WK Up To 400#, Manual Swing Roof Hoist.....	281.63	
01 22 23 00-0912 MO Up To 400#, Manual Swing Roof Hoist.....	965.58	
01 22 23 00-0913 Pumping Equipment (01 22 23)		
01 22 23 00-0914 Gas Powered Portable Centrifugal Pumps (01 22 23 00-0913) Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0938 for larger diameter pumps.		
01 22 23 00-0915 DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	66.07	
01 22 23 00-0916 WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	148.65	
01 22 23 00-0917 MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	396.41	
01 22 23 00-0918 DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	79.28	
01 22 23 00-0919 WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	178.38	
01 22 23 00-0920 MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	475.69	
01 22 23 00-0921 Gas Powered Portable Diaphragm Pumps (01 22 23 00-0913) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0922 DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	75.98	
01 22 23 00-0923 WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	214.72	
01 22 23 00-0924 MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	545.06	
01 22 23 00-0925 DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	92.50	
01 22 23 00-0926 WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	247.76	
01 22 23 00-0927 MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	701.97	
01 22 23 00-0928 Gas Powered Portable Trash Pumps (01 22 23 00-0913) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0929 DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	95.80	
01 22 23 00-0930 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	198.20	
01 22 23 00-0931 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	594.61	
01 22 23 00-0932 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	95.80	
01 22 23 00-0933 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	256.01	
01 22 23 00-0934 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	701.97	
01 22 23 00-0935 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	151.96	
01 22 23 00-0936 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	429.44	
01 22 23 00-0937 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,247.03	
01 22 23 00-0938 Diesel Powered Portable Trash Pumps (01 22 23 00-0913) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0939 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	297.31	
01 22 23 00-0940 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	809.33	
01 22 23 00-0941 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,526.38	
01 22 23 00-0942 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	454.22	
01 22 23 00-0943 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,189.22	
01 22 23 00-0944 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,163.01	
01 22 23 00-0945 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	617.74	
01 22 23 00-0946 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,653.35	
01 22 23 00-0947 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,423.25	
01 22 23 00-0948 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	799.42	
01 22 23 00-0949 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,041.50	
01 22 23 00-0950 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	5,995.67	
01 22 23 00-0951 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0913) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0952 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	424.49	
01 22 23 00-0953 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	966.24	
01 22 23 00-0954 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,012.70	
01 22 23 00-0955 DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	520.29	
01 22 23 00-0956 WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,296.58	
01 22 23 00-0957 MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,526.38	
01 22 23 00-0958 DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	627.65	
01 22 23 00-0959 WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,856.51	
01 22 23 00-0960 MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,178.08	
01 22 23 00-0961 DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	944.77	
01 22 23 00-0962 WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,413.13	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-0963 MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump7,085.79

01 22 23 00-0964 3 Phase Electric Submersible Pumps (01 22 23 00-0913)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-0965 DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump165.17
 01 22 23 00-0966 WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump412.92
 01 22 23 00-0967 MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump1,238.78
 01 22 23 00-0968 DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump218.02
 01 22 23 00-0969 WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump545.06
 01 22 23 00-0970 MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump1,635.18

01 22 23 00-0971 Suction Hose With Couplings (01 22 23 00-0913)

Note: Includes delivery, set-up, and removal.

01 22 23 00-0972 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings6.00
 01 22 23 00-0973 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings15.00
 01 22 23 00-0974 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings46.00
 01 22 23 00-0975 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings16.00
 01 22 23 00-0976 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings41.00
 01 22 23 00-0977 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings125.00
 01 22 23 00-0978 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings24.00
 01 22 23 00-0979 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings61.00
 01 22 23 00-0980 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings185.00
 01 22 23 00-0981 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings30.00
 01 22 23 00-0982 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings75.00
 01 22 23 00-0983 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings220.00
 01 22 23 00-0984 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings70.00
 01 22 23 00-0985 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings180.00
 01 22 23 00-0986 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings530.00
 01 22 23 00-0987 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings94.00
 01 22 23 00-0988 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings205.00
 01 22 23 00-0989 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings615.00

01 22 23 00-0990 Discharge Hose With Couplings (01 22 23 00-0913)

Note: Includes delivery, set-up, and removal.

01 22 23 00-0991 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings6.00
 01 22 23 00-0992 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings15.00
 01 22 23 00-0993 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings46.00
 01 22 23 00-0994 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings7.00
 01 22 23 00-0995 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings17.00
 01 22 23 00-0996 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings53.00
 01 22 23 00-0997 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings8.00
 01 22 23 00-0998 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings20.00
 01 22 23 00-0999 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings61.00
 01 22 23 00-1000 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings21.00
 01 22 23 00-1001 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings54.00
 01 22 23 00-1002 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings155.00
 01 22 23 00-1003 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings26.00
 01 22 23 00-1004 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings71.00
 01 22 23 00-1005 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings195.00
 01 22 23 00-1006 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings20.00
 01 22 23 00-1007 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings50.00
 01 22 23 00-1008 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings150.00
 01 22 23 00-1009 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings51.00
 01 22 23 00-1010 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings130.00
 01 22 23 00-1011 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings385.00

01 22 23 00-1012 Hydraulic Submersible Pumps (01 22 23 00-0913)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1013 Hydraulic Submersible Pumps (01 22 23 00-1012)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1014 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump109.01
 01 22 23 00-1015 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump292.35
 01 22 23 00-1016 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump817.59
 01 22 23 00-1017 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump138.74
 01 22 23 00-1018 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump356.77
 01 22 23 00-1019 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump1,090.12

01 22 23 00-1020 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1012)

Note: Includes delivery, set-up, and removal. Excludes operator.

01 22 23 00-1021 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack251.88
 01 22 23 00-1022 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack751.52
 01 22 23 00-1023 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack1,982.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-1024

HDPE Pipe With Couplings (01 22 23 00-0913)

Note: Includes delivery, set-up, and removal.

01 22 23 00-1025	DAY	4" x 20' HDPE Pipe With Couplings	14.75
01 22 23 00-1026	WK	4" x 20' HDPE Pipe With Couplings	35.40
01 22 23 00-1027	MO	4" x 20' HDPE Pipe With Couplings	109.15
01 22 23 00-1028	DAY	6" x 20' HDPE Pipe With Couplings	23.60
01 22 23 00-1029	WK	6" x 20' HDPE Pipe With Couplings	59.00
01 22 23 00-1030	MO	6" x 20' HDPE Pipe With Couplings	179.95
01 22 23 00-1031	DAY	8" x 20' HDPE Pipe With Couplings	38.35
01 22 23 00-1032	WK	8" x 20' HDPE Pipe With Couplings	100.30
01 22 23 00-1033	MO	8" x 20' HDPE Pipe With Couplings	297.95
01 22 23 00-1034	DAY	10" x 20' HDPE Pipe With Couplings	47.20
01 22 23 00-1035	WK	10" x 20' HDPE Pipe With Couplings	120.95
01 22 23 00-1036	MO	10" x 20' HDPE Pipe With Couplings	368.75
01 22 23 00-1037	DAY	12" x 10' HDPE Pipe With Couplings	35.40
01 22 23 00-1038	WK	12" x 10' HDPE Pipe With Couplings	97.35
01 22 23 00-1039	MO	12" x 10' HDPE Pipe With Couplings	295.00
01 22 23 00-1040	DAY	4" Elbow For HDPE Pipe, Quick Connect	35.40
01 22 23 00-1041	WK	4" Elbow For HDPE Pipe, Quick Connect	91.45
01 22 23 00-1042	MO	4" Elbow For HDPE Pipe, Quick Connect	271.40
01 22 23 00-1043	DAY	6" Elbow For HDPE Pipe, Quick Connect	41.30
01 22 23 00-1044	WK	6" Elbow For HDPE Pipe, Quick Connect	106.20
01 22 23 00-1045	MO	6" Elbow For HDPE Pipe, Quick Connect	324.50
01 22 23 00-1046	DAY	8" Elbow For HDPE Pipe, Quick Connect	47.20
01 22 23 00-1047	WK	8" Elbow For HDPE Pipe, Quick Connect	120.95
01 22 23 00-1048	MO	8" Elbow For HDPE Pipe, Quick Connect	368.75
01 22 23 00-1049	DAY	10" Elbow For HDPE Pipe, Quick Connect	59.00
01 22 23 00-1050	WK	10" Elbow For HDPE Pipe, Quick Connect	150.45
01 22 23 00-1051	MO	10" Elbow For HDPE Pipe, Quick Connect	457.25
01 22 23 00-1052	DAY	12" Elbow For HDPE Pipe, Quick Connect	59.00
01 22 23 00-1053	WK	12" Elbow For HDPE Pipe, Quick Connect	150.45
01 22 23 00-1054	MO	12" Elbow For HDPE Pipe, Quick Connect	457.25
01 22 23 00-1055	DAY	4" Tee For HDPE Pipe, Quick Connect	35.40
01 22 23 00-1056	WK	4" Tee For HDPE Pipe, Quick Connect	91.45
01 22 23 00-1057	MO	4" Tee For HDPE Pipe, Quick Connect	271.40
01 22 23 00-1058	DAY	6" Tee For HDPE Pipe, Quick Connect	47.20
01 22 23 00-1059	WK	6" Tee For HDPE Pipe, Quick Connect	120.95
01 22 23 00-1060	MO	6" Tee For HDPE Pipe, Quick Connect	368.75
01 22 23 00-1061	DAY	8" Tee For HDPE Pipe, Quick Connect	59.00
01 22 23 00-1062	WK	8" Tee For HDPE Pipe, Quick Connect	150.45
01 22 23 00-1063	MO	8" Tee For HDPE Pipe, Quick Connect	457.25
01 22 23 00-1064	DAY	10" Tee For HDPE Pipe, Quick Connect	70.80
01 22 23 00-1065	WK	10" Tee For HDPE Pipe, Quick Connect	179.95
01 22 23 00-1066	MO	10" Tee For HDPE Pipe, Quick Connect	545.75
01 22 23 00-1067	DAY	12" Tee For HDPE Pipe, Quick Connect	70.80
01 22 23 00-1068	WK	12" Tee For HDPE Pipe, Quick Connect	179.95
01 22 23 00-1069	MO	12" Tee For HDPE Pipe, Quick Connect	545.75
01 22 23 00-1070	DAY	4" Cap For HDPE Pipe, Quick Connect	5.90
01 22 23 00-1071	WK	4" Cap For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1072	MO	4" Cap For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1073	DAY	6" Cap For HDPE Pipe, Quick Connect	5.90
01 22 23 00-1074	WK	6" Cap For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1075	MO	6" Cap For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1076	DAY	8" Cap For HDPE Pipe, Quick Connect	5.90
01 22 23 00-1077	WK	8" Cap For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1078	MO	8" Cap For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1079	DAY	10" Cap For HDPE Pipe, Quick Connect	5.90
01 22 23 00-1080	WK	10" Cap For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1081	MO	10" Cap For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1082	DAY	12" Cap For HDPE Pipe, Quick Connect	5.90
01 22 23 00-1083	WK	12" Cap For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1084	MO	12" Cap For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1085	DAY	4" Wye For HDPE Pipe, Quick Connect	17.70
01 22 23 00-1086	WK	4" Wye For HDPE Pipe, Quick Connect	44.25
01 22 23 00-1087	MO	4" Wye For HDPE Pipe, Quick Connect	135.70
01 22 23 00-1088	DAY	6" Wye For HDPE Pipe, Quick Connect	20.65
01 22 23 00-1089	WK	6" Wye For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1090	MO	6" Wye For HDPE Pipe, Quick Connect	162.25
01 22 23 00-1091	DAY	8" Wye For HDPE Pipe, Quick Connect	35.40
01 22 23 00-1092	WK	8" Wye For HDPE Pipe, Quick Connect	91.45
01 22 23 00-1093	MO	8" Wye For HDPE Pipe, Quick Connect	271.40
01 22 23 00-1094	DAY	10" Wye For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1095	WK	10" Wye For HDPE Pipe, Quick Connect	135.70
01 22 23 00-1096	MO	10" Wye For HDPE Pipe, Quick Connect	413.00
01 22 23 00-1097	DAY	12" Wye For HDPE Pipe, Quick Connect	53.10
01 22 23 00-1098	WK	12" Wye For HDPE Pipe, Quick Connect	135.70
01 22 23 00-1099	MO	12" Wye For HDPE Pipe, Quick Connect	413.00

01 22 23 00-1100

Temporary Building Services (01 22 23)

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1101			Boilers (01 22 23 00-1100) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1102			Electric Boilers (01 22 23 00-1101)		
01 22 23 00-1103	MO		40 MBH, 12 KW Electric Boiler Rental.....	2,360.98	
01 22 23 00-1104	MO		60 MBH, 20 KW Electric Boiler Rental.....	2,575.65	
01 22 23 00-1105	MO		95 MBH, 30 KW Electric Boiler Rental.....	2,682.98	
01 22 23 00-1106	MO		135 MBH, 40 KW Electric Boiler Rental.....	3,004.88	
01 22 23 00-1107	MO		165 MBH, 50 KW Electric Boiler Rental.....	4,185.37	
01 22 23 00-1108	MO		215 MBH, 60 KW Electric Boiler Rental.....	4,829.29	
01 22 23 00-1109	MO		365 MBH, 100 KW Electric Boiler Rental.....	6,331.78	
01 22 23 00-1110	MO		510 MBH, 150 KW Electric Boiler Rental.....	7,726.93	
01 22 23 00-1111			Oil/Gas Fired Boilers (01 22 23 00-1101)		
01 22 23 00-1112	MO		Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental.....	2,080.00	
			<i>For >3 Months Rental, Deduct</i>	-312.00	
01 22 23 00-1113	MO		>100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental.....	2,704.00	
			<i>For >3 Months Rental, Deduct</i>	-405.60	
01 22 23 00-1114	MO		>250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental.....	4,368.00	
			<i>For >3 Months Rental, Deduct</i>	-655.20	
01 22 23 00-1115	MO		>500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental.....	6,032.00	
			<i>For >3 Months Rental, Deduct</i>	-904.80	
01 22 23 00-1116			Oil Fired Boilers (01 22 23 00-1101)		
01 22 23 00-1117	MO		250 HP Oil Fired Boiler Rental.....	6,630.82	
01 22 23 00-1118	MO		350 HP Oil Fired Boiler Rental.....	8,841.10	
01 22 23 00-1119	MO		500 HP Oil Fired Boiler Rental.....	11,051.37	
01 22 23 00-1120	MO		600 HP Oil Fired Boiler Rental.....	12,156.51	
01 22 23 00-1121			Boilers Setup (01 22 23 00-1101)		
01 22 23 00-1122	EA		Setup Rental Boiler.....	6,232.98	
			Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1123			Chillers (01 22 23 00-1100) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1124			Air Cooled Chillers (01 22 23 00-1123)		
01 22 23 00-1125	MO		25 Ton Air Cooled Chiller Rental.....	3,152.40	
			<i>For >3 To 6 Month Rental, Deduct</i>	-472.86	
			<i>For >6 Month Rental, Deduct</i>	-788.10	
01 22 23 00-1126	MO		40 Ton Air Cooled Chiller Rental.....	5,043.85	
			<i>For >3 To 6 Month Rental, Deduct</i>	-756.58	
			<i>For >6 Month Rental, Deduct</i>	-1,260.96	
01 22 23 00-1127	MO		60 Ton Air Cooled Chiller Rental.....	6,169.20	
			<i>For >3 To 6 Month Rental, Deduct</i>	-925.38	
			<i>For >6 Month Rental, Deduct</i>	-1,542.30	
01 22 23 00-1128	MO		80 Ton Air Cooled Chiller Rental.....	7,294.55	
			<i>For >3 To 6 Month Rental, Deduct</i>	-1,094.18	
			<i>For >6 Month Rental, Deduct</i>	-1,823.64	
01 22 23 00-1129	MO		100 Ton Air Cooled Chiller Rental.....	8,419.90	
			<i>For >3 To 6 Month Rental, Deduct</i>	-1,262.99	
			<i>For >6 Month Rental, Deduct</i>	-2,104.98	
01 22 23 00-1130	MO		125 Ton Air Cooled Chiller Rental.....	9,754.62	
			<i>For >3 To 6 Month Rental, Deduct</i>	-1,463.19	
			<i>For >6 Month Rental, Deduct</i>	-2,438.66	
01 22 23 00-1131	MO		155 Ton Air Cooled Chiller Rental.....	11,800.70	
			<i>For >3 To 6 Month Rental, Deduct</i>	-1,770.11	
			<i>For >6 Month Rental, Deduct</i>	-2,950.18	
01 22 23 00-1132	MO		170 Ton Air Cooled Chiller Rental.....	12,619.14	
			<i>For >3 To 6 Month Rental, Deduct</i>	-1,892.87	
			<i>For >6 Month Rental, Deduct</i>	-3,154.79	
01 22 23 00-1133	MO		200 Ton Air Cooled Chiller Rental.....	14,496.31	
			<i>For >3 To 6 Month Rental, Deduct</i>	-2,174.45	
			<i>For >6 Month Rental, Deduct</i>	-3,624.08	
01 22 23 00-1134	MO		250 Ton Air Cooled Chiller Rental.....	17,249.02	
			<i>For >3 To 6 Month Rental, Deduct</i>	-2,587.35	
			<i>For >6 Month Rental, Deduct</i>	-4,312.26	
01 22 23 00-1135	MO		300 Ton Air Cooled Chiller Rental.....	20,127.82	
			Note: Includes trailer.		
			<i>For >3 To 6 Month Rental, Deduct</i>	-3,019.17	
			<i>For >6 Month Rental, Deduct</i>	-5,031.96	
01 22 23 00-1136	MO		400 Ton Air Cooled Chiller Rental.....	26,551.59	
			Note: Includes trailer, pump and 200' of 6" hose.		
			<i>For >3 To 6 Month Rental, Deduct</i>	-3,982.74	
			<i>For >6 Month Rental, Deduct</i>	-6,637.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1137 MO 500 Ton Air Cooled Chiller Rental Note: Includes trailer, pump and 200' of 6" hose. For >3 To 6 Month Rental, Deduct For >6 Month Rental, Deduct	32,865.91 -4,929.89 -8,216.48	
01 22 23 00-1138 EA Setup Air Cooled Chiller Rental Unit..... Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.	4,332.68	
01 22 23 00-1139 Chiller Rental Accessories (01 22 23 00-1123)		
01 22 23 00-1140 MO 4" x 25' Flexible Water Hose For Chiller Rental	56.17	
01 22 23 00-1141 MO 6" x 25' Flexible Water Hose For Chiller Rental	70.22	
01 22 23 00-1142 Cooling Tower (01 22 23 00-1100)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1143 MO 100 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	2,892.86 -433.93 -723.22	
01 22 23 00-1144 MO 200 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	5,266.12 -789.92 -1,316.53	
01 22 23 00-1145 MO 250 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	5,963.64 -894.55 -1,490.91	
01 22 23 00-1146 MO 300 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	6,740.64 -1,011.10 -1,685.16	
01 22 23 00-1147 MO 400 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	8,425.80 -1,263.87 -2,106.45	
01 22 23 00-1148 MO 500 Ton Cooling Tower Rental For >3 To 6 Months Rental, Deduct For >6 Months Rental, Deduct	9,851.21 -1,477.68 -2,462.80	
01 22 23 00-1149 MO Setup Rental Cooling Tower..... Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.	4,332.68	
01 22 23 00-1150 Emergency Cooler/Freezer (01 22 23 00-1100)		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1151 DAY 8 x 6 x 7 Emergency Cooler Rental	79.97	
01 22 23 00-1152 WK 8 x 6 x 7 Emergency Cooler Rental	426.52	
01 22 23 00-1153 DAY 10 x 7 x 7 Emergency Cooler Rental	159.94	
01 22 23 00-1154 WK 10 x 7 x 7 Emergency Cooler Rental	639.78	
01 22 23 00-1155 MO 10 x 7 x 7 Emergency Cooler Rental	1,599.45	
01 22 23 00-1156 DAY 10 x 7 x 7 Emergency Freezer Rental	186.60	
01 22 23 00-1157 WK 10 x 7 x 7 Emergency Freezer Rental	746.41	
01 22 23 00-1158 MO 10 x 7 x 7 Emergency Freezer Rental	1,919.34	
01 22 23 00-1159 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	213.26	
01 22 23 00-1160 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	853.04	
01 22 23 00-1161 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental	2,132.60	
01 22 23 00-1162 Portable Spot Cooling Units (01 22 23 00-1100)		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes operator.		
01 22 23 00-1163 DAY 1 Ton Portable Spot Cooling Unit	189.09	
01 22 23 00-1164 WK 1 Ton Portable Spot Cooling Unit	415.99	
01 22 23 00-1165 MO 1 Ton Portable Spot Cooling Unit	831.98	
01 22 23 00-1166 DAY 2 Ton Portable Spot Cooling Unit	302.54	
01 22 23 00-1167 WK 2 Ton Portable Spot Cooling Unit	605.08	
01 22 23 00-1168 MO 2 Ton Portable Spot Cooling Unit	1,361.43	
01 22 23 00-1169 DAY 3 Ton Portable Spot Cooling Unit	453.81	
01 22 23 00-1170 WK 3 Ton Portable Spot Cooling Unit	907.62	
01 22 23 00-1171 MO 3 Ton Portable Spot Cooling Unit	1,815.24	
01 22 23 00-1172 DAY 5 Ton Portable Spot Cooling Unit	529.44	
01 22 23 00-1173 WK 5 Ton Portable Spot Cooling Unit	1,058.89	
01 22 23 00-1174 MO 5 Ton Portable Spot Cooling Unit	2,420.32	
01 22 23 00-1175 DAY 10 Ton Portable Spot Cooling Unit	1,134.52	
01 22 23 00-1176 WK 10 Ton Portable Spot Cooling Unit	1,815.24	
01 22 23 00-1177 MO 10 Ton Portable Spot Cooling Unit	3,630.48	
01 22 23 00-1178 DAY 20 Ton Portable Spot Cooling Unit	1,512.70	
01 22 23 00-1179 WK 20 Ton Portable Spot Cooling Unit	2,647.22	
01 22 23 00-1180 MO 20 Ton Portable Spot Cooling Unit	5,672.62	
01 22 23 00-1181 DAY 25 Ton Portable Spot Cooling Unit	1,739.60	
01 22 23 00-1182 WK 25 Ton Portable Spot Cooling Unit	2,798.50	
01 22 23 00-1183 MO 25 Ton Portable Spot Cooling Unit	6,050.80	
01 22 23 00-1184 Fuel Oil Tank (01 22 23 00-1100)		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0721 for reimbursable fuel fees.		

01	01	General Requirements
	01 20	Price and Payment Procedures
	01 22	Unit Prices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1185 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental	400.46	
01 22 23 00-1186 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental	622.94	
01 22 23 00-1187 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,557.36	
01 22 23 00-1188 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,595.60	
01 22 23 00-1189 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,426.19	
01 22 23 00-1190 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	6,120.67	
01 22 23 00-1191 Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1192 Trucks (01 22 23 00-1191)		
Note: Includes driver, delivery, and removal.		
01 22 23 00-1193 Flat Bed Trucks (01 22 23 00-1192)		
Note: Includes hydraulic tilt bed.		
01 22 23 00-1194 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	895.22	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1195 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	3,880.40	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1196 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	15,628.18	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1197 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,003.53	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1198 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,157.95	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1199 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	16,338.97	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1200 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,081.25	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1201 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,455.00	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1202 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	17,469.48	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1203 Light Off-Road Utility Passanger Vehicles (01 22 23 00-1192)		
01 22 23 00-1204 DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	241.66	
01 22 23 00-1205 WK 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	558.85	
01 22 23 00-1206 MO 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle	1,208.32	
01 22 23 00-1207 DAY 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	249.22	
01 22 23 00-1208 WK 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	581.50	
01 22 23 00-1209 MO 4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle	1,283.84	
01 22 23 00-1210 Light Duty Trucks (01 22 23 00-1192)		
01 22 23 00-1211 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	880.73	
For Equipment Without Operator, Deduct	-638.15	
01 22 23 00-1212 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	3,986.70	
For Equipment Without Operator, Deduct	-3,190.75	
01 22 23 00-1213 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver	15,494.30	
For Equipment Without Operator, Deduct	-13,826.59	
01 22 23 00-1214 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	926.21	
For Equipment Without Operator, Deduct	-638.15	
01 22 23 00-1215 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	4,123.15	
For Equipment Without Operator, Deduct	-3,190.75	
01 22 23 00-1216 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver	15,797.52	
For Equipment Without Operator, Deduct	-13,826.59	
01 22 23 00-1217 Rear Dump Trucks (01 22 23 00-1192)		
01 22 23 00-1218 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver	976.15	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1219 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver	4,099.09	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1220 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver	16,649.69	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1221 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver	1,086.02	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1222 WK 4 CY Rear Dump Truck With Full-Time Truck Driver	4,439.50	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1223 MO 4 CY Rear Dump Truck With Full-Time Truck Driver	17,121.57	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1224 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver	1,149.06	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1225 WK 6 CY Rear Dump Truck With Full-Time Truck Driver	4,574.58	
For Equipment Without Operator, Deduct	-3,223.76	
01 22 23 00-1226 MO 6 CY Rear Dump Truck With Full-Time Truck Driver	17,211.63	
For Equipment Without Operator, Deduct	-13,969.65	
01 22 23 00-1227 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver	1,896.51	
For Equipment Without Operator, Deduct	-644.75	
01 22 23 00-1228 WK 13 CY Rear Dump Truck With Full-Time Truck Driver	6,114.53	
For Equipment Without Operator, Deduct	-3,223.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1229 MO 13 CY Rear Dump Truck With Full-Time Truck Driver	21,534.27	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1230 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver	2,021.69	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1231 WK 18 CY Rear Dump Truck With Full-Time Truck Driver	6,403.60	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1232 MO 18 CY Rear Dump Truck With Full-Time Truck Driver	22,290.73	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1233 Vacuum Trucks <small>(01 22 23 00-1192)</small>		
01 22 23 00-1234 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,887.51	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1235 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	6,966.45	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1236 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	25,014.00	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1237 Water Trucks <small>(01 22 23 00-1192)</small>		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-0990 for additional discharge hose, 01 22 23 00-1253 for water trailer.		
01 22 23 00-1238 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,296.89	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1239 WK 2,000 Gallon Water Truck With Full-Time Driver	4,941.06	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1240 MO 2,000 Gallon Water Truck With Full-Time Driver	18,027.41	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1241 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	1,615.71	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1242 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	5,897.53	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1243 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver	20,491.05	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	11.64	
01 22 23 00-1244 Asphalt Distribution Trucks <small>(01 22 23 00-1192)</small>		
01 22 23 00-1245 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	1,805.04	
<i>For Equipment Without Operator, Deduct</i>	-644.75	
01 22 23 00-1246 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	6,689.74	
<i>For Equipment Without Operator, Deduct</i>	-3,223.76	
01 22 23 00-1247 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	24,215.97	
<i>For Equipment Without Operator, Deduct</i>	-13,969.65	
01 22 23 00-1248 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board <small>(01 22 23 00-1192)</small>		
01 22 23 00-1249 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,312.41	
<i>For Equipment Without Operator, Deduct</i>	-638.15	
01 22 23 00-1250 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	5,180.67	
<i>For Equipment Without Operator, Deduct</i>	-3,190.75	
01 22 23 00-1251 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	18,659.02	
<i>For Equipment Without Operator, Deduct</i>	-13,826.59	
01 22 23 00-1252 Trailers <small>(01 22 23 00-1191)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1253 Water Trailers With Pump <small>(01 22 23 00-1252)</small>		
01 22 23 00-1254 DAY 500 To 600 Gallon Water Trailer With Pump	166.66	
01 22 23 00-1255 WK 500 To 600 Gallon Water Trailer With Pump	427.51	
01 22 23 00-1256 MO 500 To 600 Gallon Water Trailer With Pump	1,144.87	

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001 Minimum Charge (01 31 33)

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

01	01	General Requirements
	01 30	Administrative Requirements
	01 31	Project Management and Coordination



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31	33 00-0002	EA	Carpenter Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,051.83	
01 31	33 00-0003	EA	Carpet, Linoleum Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,008.68	
01 31	33 00-0004	EA	Cement Mason Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	711.67	
01 31	33 00-0005	EA	Drywall Finisher Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	946.17	
01 31	33 00-0006	EA	Drywall Installer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,016.68	
01 31	33 00-0007	EA	Electrician Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,238.47	
01 31	33 00-0008	EA	Glazier Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	915.96	
01 31	33 00-0009	EA	Insulator Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,065.19	
01 31	33 00-0010	EA	Laborer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	651.39	
01 31	33 00-0011	EA	Landscape Maintenance Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	776.39	
01 31	33 00-0012	EA	Ornamental Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	976.00	
01 31	33 00-0013	EA	Painter, Ordinary Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	791.58	
01 31	33 00-0014	EA	Plasterer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	928.45	
01 31	33 00-0015	EA	Plumber Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,315.61	
01 31	33 00-0016	EA	Roofer, Tile/Slate Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,003.23	
01 31	33 00-0017	EA	Roofer, Composite Built-Up Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,003.23	
01 31	33 00-0018	EA	Sheet Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,210.92	
01 31	33 00-0019	EA	Sprinkler Installer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,268.80	
01 31	33 00-0020	EA	Tile Layer (Floor) Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	839.68	

01 35 Special Procedures (01 30)

01 35 29 Health, Safety, and Emergency Response Procedures (01 35)

See CSI section 02 90 00 00-0000 for disaster recovery task.

01 35 29 00-0001 Emergency Response (01 35 29)

See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0050 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.

01 35 29 00-0002	MI	Trucking Delivery Of 20' Shipping Container	2.11
01 35 29 00-0003	MI	Trucking Delivery Of 40' Shipping Container	4.22

01 35 33 Infection Control Procedures (01 35)

See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.

01 40 Quality Requirements (01)

01 45 Quality Control (01 40)

01 45 23 Testing and Inspecting Services (01 45)

Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001		Soils/Aggregate Testing	<small>(01 45 23)</small>
01 45 23 00-0002		Field Soils Tests	<small>(01 45 23 00-0001)</small>



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test.....	275.45	
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	390.96	
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	444.28	
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	355.42	
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test.....	533.13	
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,065.89	
01 45 23 00-0009 EA Moisture Content, Field Soils Test.....	39.97	
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test.....	140.03	
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	266.47	
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test.....	333.09	
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test.....	106.59	
01 45 23 00-0014 EA Percolation Test, Field Soils Test.....	266.47	
01 45 23 00-0015 EA Infiltration Test, Field Soils Test.....	532.95	
01 45 23 00-0016 Aggregate Testing (01 45 23 00-0001)		
01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	88.86	
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	159.94	
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	222.14	
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136.....	173.21	
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127.....	141.14	
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127.....	126.57	
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	188.19	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	177.71	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227.....	177.71	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	133.28	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229.....	142.17	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88.....	373.06	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211.....	284.34	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535.....	284.34	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29.....	79.97	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40.....	79.94	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method.....	79.94	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142.....	159.88	
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385.....	1,411.42	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test.....	66.62	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE.....	658.66	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100.....	658.66	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432.....	376.38	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	21.79	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	56.46	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42.....	115.51	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	168.82	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567.....	62.20	
01 45 23 00-0050 EA Concrete Mix Design Review.....	337.65	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory.....	799.70	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified.....	621.98	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	95.96	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	44.43	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231.....	44.43	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24).....	44.43	
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	71.08	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366.....	88.86	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927.....	231.02	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559.....	88.86	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559.....	231.02	
01 45 23 00-0064 EA Swell Test, CA 305.....	106.63	
Note: Includes compaction.		

01	01	General Requirements
	01 40	Quality Requirements
	01 45	Quality Control



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	266.56	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	169.37	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	35.54	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C.....	35.54	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum.....	183.04	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664.....	119.91	
01 45 23 00-0071 EA Penetration, ASTM D5.....	128.36	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test.....	58.64	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test.....	58.64	
01 45 23 00-0076 EA Masonry Cores Compression Test.....	115.51	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	222.14	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	142.17	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	97.74	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427.....	373.06	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	186.53	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing.....	535.28	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	594.37	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	653.26	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	137.75	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617.....	826.48	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	41.56	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	172.26	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	172.26	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	172.26	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	947.43	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves.....	623.51	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	3,100.68	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	5.17	
<i>For CADD Drawings, Add</i>		
	1.03	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	3.45	
<i>For CADD Drawings, Add</i>		
	0.69	
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.58	
<i>For CADD Drawings, Add</i>		
	0.52	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>		
	0.65	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>		
	0.65	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	1.72	
<i>For CADD Drawings, Add</i>		
	0.34	
<i>For Elevated Infrared Thermography Roof Investigation, Add</i>		
	0.43	
<i>For Aerial Infrared Thermography Roof Investigation, Add</i>		
	0.43	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge.....	1,636.47	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography.....	5.17	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	2.59	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	3.45	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	1.73	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	1.72	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	0.86	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding missing or misplaced insulation, air leakage and delamination.		



		General Requirements	01
		Quality Requirements	01 40
		Quality Control	01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge.....	3,359.07	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography	5.17	
For Digital Or Analog Recording Of All Items, Add	2.59	
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography.....	3.45	
For Digital Or Analog Recording Of All Items, Add	1.73	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography	1.72	
For Digital Or Analog Recording Of All Items, Add	0.86	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography⁽⁰¹⁾		
^{45 23 00-0099} Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	1,636.47	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography	243.56	
For Digital Or Analog Recording Of All Items, Add	36.46	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography^(01 45 23 00-0099)		
Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,636.47	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	5.17	
For Digital Or Analog Recording Of All Items, Add	0.78	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	3.45	
For Digital Or Analog Recording Of All Items, Add	0.52	
01 45 23 00-0123 Other Nondestructive Field Testing Services^(01 45 23 00-0098)		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant.....	95.62	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant.....	119.25	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant.....	136.88	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel	139.12	
01 45 23 00-0128 Testing Professional Services^(01 45 23 00-0088)		
01 45 23 00-0129 HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection.....	165.27	
01 45 23 00-0130 HR Laboratory Technician	159.94	
01 45 23 00-0131 HR Portable Digital Reinforcement Scanner.....	231.02	
01 45 23 00-0132 HR Subsurface Detection Radar System.....	390.96	
01 45 23 00-0133 HR Pavement Rehabilitation Analysis Using Deflectors	444.28	
01 45 29 Testing Laboratory Services^(01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests^(01 45 29)		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	122.32	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	39.04	
01 45 29 00-0004 EA Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	94.10	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	658.66	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test.....	130.11	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	28.23	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	17.54	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	226.41	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test	78.96	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test.....	15.61	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	780.71	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	157.91	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test.....	195.18	
01 45 29 00-0015 EA Los Angeles Abrasion, Soil Borings Laboratory Test.....	455.09	
01 45 29 00-0016 EA Soil Bearing Ratio, ASTM D1883.....	399.85	
01 45 29 00-0017 EA Compaction Test Subgrade, Soil Borings Laboratory Test.....	117.11	
01 45 29 00-0018 EA Compaction Test Base Course, Soil Borings Laboratory Test.....	99.08	
01 45 29 00-0019 EA In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	385.08	
01 45 29 00-0020 EA Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	59.85	
01 50 Temporary Facilities and Controls⁽⁰¹⁾		
Note: Tasks in this section shall be used as directed by owner.		
01 51 Temporary Utilities^(01 50)		
01 51 13 Temporary Electricity^(01 51)		
01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch^(01 51 13)		
Note: Includes all connections and removal after use.		
01 51 13 00-0002 EA Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,617.96	
01 51 13 00-0003 EA Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,524.86	
01 51 13 00-0004 EA Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,579.27	
01 51 13 00-0005 EA Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,373.89	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 51	Temporary Utilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 51 13 00-0006	Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses ^(01 51 13) Note: Includes mounting on wall and removal after use.		
01 51 13 00-0007 EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,618.08	
01 51 13 00-0008 EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,316.69	
01 51 13 00-0009 EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,609.24	
01 51 13 00-0010 EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,219.04	

01 51 13 00-0011	Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards ^(01 51 13) Note: Includes all connections, fittings, supports and removal after use.		
01 51 13 00-0012 LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	9.49	
01 51 13 00-0013 LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	10.40	

01 51 26 Temporary Lighting ^(01 51)

01 51 26 00-0001	Temporary Devices ^(01 51 26) Note: Includes removal after use.		
01 51 26 00-0002 EA	Temporary Exit Light.....	320.73	
01 51 26 00-0003 EA	Temporary 10 Light String With Cages	117.86	
01 51 26 00-0004 EA	Temporary High Bay Light	445.92	

01 52 Construction Facilities ^(01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds ^(01 52)

01 52 13 00-0001	Field Offices ^(01 52 13) Note: Excludes furniture, utility connections and service. Minimum 6 months rental.		
01 52 13 00-0002 MO	8' x 24' Mobile Office, With Toilet.....	166.62	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	692.02	
	<i>For Each Set-Up (Block And Level), Add</i>	388.51	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
	<i>For Office Trailer Without Toilet, Deduct</i>	-33.32	
01 52 13 00-0003 MO	8' x 32' Mobile Office, With Toilet.....	188.83	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	692.02	
	<i>For Each Set-Up (Block And Level), Add</i>	388.51	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
	<i>For Office Trailer Without Toilet, Deduct</i>	-37.77	
01 52 13 00-0004 MO	10' x 36' Mobile Office, With Toilet.....	255.48	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
	<i>For Office Trailer Without Toilet, Deduct</i>	-51.10	
01 52 13 00-0005 MO	10' x 40' Mobile Office, With Toilet.....	272.15	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
	<i>For Office Trailer Without Toilet, Deduct</i>	-54.43	
01 52 13 00-0006 MO	10' x 44' Mobile Office, With Toilet.....	299.92	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
01 52 13 00-0007 MO	10' x 50' Mobile Office, With Toilet.....	316.58	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
01 52 13 00-0008 MO	12' x 32' Mobile Office, With Toilet.....	244.93	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
	<i>For Each Delivery And Set-Up (Block And Level), Add</i>	949.29	
	<i>For Each Knock-Down And Pick-Up, Add</i>	754.29	
01 52 13 00-0009 MO	12' x 44' Mobile Office, With Toilet.....	327.47	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	
01 52 13 00-0010 MO	12' x 50' Mobile Office, With Toilet.....	372.12	
	<i>For Each Delivery And Removal, Two Round Trips, Add</i>	980.37	
	<i>For Each Set-Up (Block And Level), Add</i>	633.89	
	<i>For Each Anchoring Into Dirt, Add</i>	118.47	
	<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	177.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	405.44	
For Each Delivery And Removal, Two Round Trips, Add	980.37	
For Each Set-Up (Block And Level), Add	633.89	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet	888.63	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet	1,066.36	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet	506.80	
For Each Delivery And Removal, Two Round Trips, Add	1,845.40	
For Each Set-Up (Block And Level), Add	1,022.40	
For Each Anchoring Into Dirt, Add	118.47	
For Each Anchoring Into Asphalt Or Concrete, Add	177.71	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer	45.84	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	28.65	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer	34.38	
01 52 13 00-0019 MO Table For Field Office Trailer	22.92	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	10.86	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	126.07	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	80.23	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	144.45	
01 52 13 00-0024 LF Perimeter Trailer Skirting For Field Office Trailer.....	14.22	
01 52 13 00-0025 LF Insulated Perimeter Trailer Skirting For Field Office Trailer	33.68	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	41.47	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	57.30	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	91.69	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container	192.50	
For Each Delivery And Removal, Two Round Trips, Add	225.69	
For >12 Months, Deduct	-57.75	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container	201.25	
For Each Delivery And Removal, Two Round Trips, Add	248.26	
For >12 Months, Deduct	-60.38	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container	238.00	
For Each Delivery And Removal, Two Round Trips, Add	500.00	
For >12 Months, Deduct	-71.40	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	59.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	177.00	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet	70.37	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet	206.49	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery, Add	75.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	43.93	
For Each Delivery, Add	75.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	133.24	
For Each Delivery, Add	75.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer	3,661.58	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,112.45	
01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		
01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)		
Note: Includes removal after use.		
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	6.88	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	33.32	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 53	Temporary Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	12.51	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	23.78	
01 53 23 Temporary Ramps (01 53)		
01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23) Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....	1.57	0.50
01 54 Construction Aids (01 50)		
01 54 09 Personnel Protection Equipment (01 54)		
01 54 09 00-0001 Personnel Protection Equipment (01 54 09) Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.		
01 54 09 00-0002 NTE Personnel Protection Equipment.....	0.00	
01 54 23 Temporary Scaffolding and Platforms (01 54)		
01 54 23 00-0001 Scaffolding (01 54 23) Note: Additional scaffolding rental for work above the normal working height.		
01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	28.12 11.25 7.03 2.81	
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	31.62 12.65 7.91 3.16	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month)..... For Up To 25, Add For >25 To 50, Add For >50 To 150, Add	42.18 16.87 10.55 4.22	
01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.		
01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.38	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	65.48	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	78.57	
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	86.43	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	99.52	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	62.86	
01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	54.82	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	100.51	
01 54 23 00-0016 LF Aluminum Joists (LF / Month)	8.91	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month)	12.78	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	16.11	
01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.		
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	83.81	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	104.76	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	125.71	
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	136.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	151.90	
01 54 23 00-0025 Scaffolding Accessories (01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding	35.64	
Note: Includes removal after use.		
01 54 23 00-0027 Rolling Scaffolding (01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0028 DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	10.39	
01 54 23 00-0029 WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	41.65	
01 54 23 00-0030 MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	166.57	
01 54 23 00-0031 DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	17.40	
01 54 23 00-0032 WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	69.68	
01 54 23 00-0033 MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	278.76	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	98.56	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	123.20	
01 54 23 00-0036 Shoring Posts (01 54 23) Note: Includes moving to perform task and removal after use. No additional cost for relocating will be allowed.		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	6.44	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	19.31	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	32.19	
01 54 23 00-0040 Temporary Lumber (01 54 23) Note: Includes removal after use.		
01 54 23 00-0041 SF 5/16" CD Grade Plywood, Temporary Lumber	2.70	
01 54 23 00-0042 SF 1/2" CD Grade Plywood, Temporary Lumber	2.84	
01 54 23 00-0043 SF 5/8" CD Grade Plywood, Temporary Lumber	3.49	
01 54 23 00-0044 SF 3/4" CD Grade Plywood, Temporary Lumber	3.90	
01 54 23 00-0045 SF 1" CD Grade Plywood, Temporary Lumber	5.92	
01 54 23 00-0046 LF 2" x 4" Temporary Lumber.....	3.07	
01 54 23 00-0047 LF 2" x 6" Temporary Lumber	3.86	
01 54 23 00-0048 LF 2" x 8" Temporary Lumber	4.65	
01 54 23 00-0049 LF 2" x 10" Temporary Lumber	5.46	
01 54 23 00-0050 LF 2" x 12" Temporary Lumber	6.25	
01 54 23 00-0051 LF 3" x 8" Temporary Lumber	6.25	
01 54 23 00-0052 LF 3" x 10" Temporary Lumber	7.44	
01 54 23 00-0053 LF 3" x 12" Temporary Lumber	8.63	
01 54 23 00-0054 LF 4" x 4" Temporary Lumber.....	4.08	
01 54 23 00-0055 LF 4" x 6" Temporary Lumber	5.80	
01 54 23 00-0056 LF 6" x 6" Temporary Lumber	7.53	
01 54 23 00-0057 LF 6" x 8" Temporary Lumber.....	9.75	
01 54 23 00-0058 LF 12" x 12" Temporary Lumber.....	23.47	
01 54 23 00-0059 Temporary Precast Concrete Blocks (01 54 23) Note: Includes removal after use.		
01 54 23 00-0060 EA 2' x 2' x 2' Temporary Precast Concrete Block	100.87	
01 54 23 00-0061 EA 2' x 2' x 4' Temporary Precast Concrete Block	126.08	
01 54 23 00-0062 EA 2' x 2' x 8' Temporary Precast Concrete Block	151.31	
01 54 26 Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	2,409.84	
01 54 26 00-0003 MO 10' Swing Stage, Electric Operated	2,530.33	
01 54 26 00-0004 MO 14' Swing Stage, Electric Operated	2,650.82	
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	2,771.31	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	2,891.80	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,012.30	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	3,132.79	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated.....	694.89	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated.....	868.61	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling.....	4,202.13	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	5,839.57	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	2,209.57	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	3,077.62	

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 54	Construction Aids



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 55 Vehicular Access and Parking (01 50)

01 55 23 Temporary Roads (01 55)

01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)

Note: As per Caltrans detail.

01 55 23 00-0002	SF	3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.90	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003	SF	>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.07	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		

01 55 23 00-0004 Rumble Trench Plate (01 55 23)

01 55 23 00-0005	MO	8' x 10' Steel Rumble Trench Plate Rental.....	321.86	
01 55 23 00-0006	EA	Placement And Removal Of Rumble Plate	85.83	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007	EA	Relocate And Adjust Location Of Rumble Plate.....	21.46	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		

01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)

Note: Excludes asphalt and gravel.

01 55 23 00-0009	EA	4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	3,983.33	191.22
01 55 23 00-0010	EA	6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,427.04	286.83
01 55 23 00-0011	EA	8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	7,496.98	382.45
01 55 23 00-0012	EA	12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	15,516.21	478.07
01 55 23 00-0013	EA	24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	22,752.63	573.68

01 55 26 Traffic Control (01 55)

01 55 26 00-0001 Removable Prefomed Traffic Black Line Mask (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask.....	5.93	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask.....	7.37	

01 55 26 00-0004 Temporary Prefomed Traffic Line Tape (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape.....	4.39	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape.....	5.96	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape.....	7.43	

01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines.....	2.10	
		<i>For Not Removed, Deduct</i>	-2.76	
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines.....	2.76	
		<i>For Not Removed, Deduct</i>	-3.73	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines.....	3.47	
		<i>For Not Removed, Deduct</i>	-4.72	
01 55 26 00-0012	EA	2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.90	
01 55 26 00-0013	EA	2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.92	

01 55 26 00-0014 Pedestrian Traffic Control (01 55 26)

01 55 26 00-0015	CLF	1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	12.68	
01 55 26 00-0016	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	17.36	
01 55 26 00-0017	CLF	3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.82	
01 55 26 00-0018	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	11.19	
01 55 26 00-0019	CLF	3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	12.70	
01 55 26 00-0020	CLF	6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	18.71	
01 55 26 00-0021	CLF	1" Exterior Vinyl Tape (Warning Tape).....	15.99	
01 55 26 00-0022	CLF	2" Exterior Vinyl Tape (Warning Tape).....	23.64	
01 55 26 00-0023	CLF	3" Exterior Vinyl Tape (Warning Tape).....	31.17	
01 55 26 00-0024	CLF	4" Exterior Vinyl Tape (Warning Tape).....	36.56	

01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)

Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.

01 55 26 00-0026	LF	4" Linear Delineation System.....	9.25	
01 55 26 00-0027	LF	6" Linear Delineation System.....	12.47	

01 55 26 00-0028 Traffic Protection (01 55 26)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 55 26 00-0029

Portable Traffic Control Device Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

01 55 26 00-0030	DAY	28" Cone With Reflective Collar.....	0.69
01 55 26 00-0031	WK	28" Cone With Reflective Collar.....	2.07
01 55 26 00-0032	MO	28" Cone With Reflective Collar.....	6.22
01 55 26 00-0033	DAY	Vertical Panel.....	2.09
01 55 26 00-0034	WK	Vertical Panel.....	6.26
01 55 26 00-0035	MO	Vertical Panel.....	18.79
01 55 26 00-0036	DAY	Channelizer Drum.....	2.27
01 55 26 00-0037	WK	Channelizer Drum.....	6.80
01 55 26 00-0038	MO	Channelizer Drum.....	20.39
01 55 26 00-0039	DAY	Stackable Channelizer Panel.....	1.07
01 55 26 00-0040	WK	Stackable Channelizer Panel.....	3.21
01 55 26 00-0041	MO	Stackable Channelizer Panel.....	9.64
01 55 26 00-0042	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.48
01 55 26 00-0043	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	4.45
01 55 26 00-0044	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	13.36
01 55 26 00-0045	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	3.29
01 55 26 00-0046	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	9.87
01 55 26 00-0047	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	29.60
01 55 26 00-0048	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	3.75
01 55 26 00-0049	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	11.25
01 55 26 00-0050	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	33.74
01 55 26 00-0051	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	6.86
01 55 26 00-0052	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	20.57
01 55 26 00-0053	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	61.71
01 55 26 00-0054	DAY	Up To 10' Wide A Frame Barricade.....	3.76
01 55 26 00-0055	WK	Up To 10' Wide A Frame Barricade.....	11.28
01 55 26 00-0056	MO	Up To 10' Wide A Frame Barricade.....	33.85
01 55 26 00-0057	DAY	Type A Or C Flasher.....	0.77
01 55 26 00-0058	WK	Type A Or C Flasher.....	2.30
01 55 26 00-0059	MO	Type A Or C Flasher.....	6.90
01 55 26 00-0060	DAY	Type B Flasher (High Intensity).....	4.16
01 55 26 00-0061	WK	Type B Flasher (High Intensity).....	12.47
01 55 26 00-0062	MO	Type B Flasher (High Intensity).....	37.42

01 55 26 00-0063

Traffic Barriers Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

01 55 26 00-0064	DAY	6' Long Portable Parking Curbs.....	1.79
01 55 26 00-0065	WK	6' Long Portable Parking Curbs.....	5.37
01 55 26 00-0066	MO	6' Long Portable Parking Curbs.....	16.12
01 55 26 00-0067	DAY	6' Long Portable Speed Bumps.....	5.30
01 55 26 00-0068	WK	6' Long Portable Speed Bumps.....	15.90
01 55 26 00-0069	MO	6' Long Portable Speed Bumps.....	47.70
01 55 26 00-0070	DAY	Up To 12.5' Concrete Traffic Barrier.....	12.73
01 55 26 00-0071	WK	Up To 12.5' Concrete Traffic Barrier.....	38.20
01 55 26 00-0072	MO	Up To 12.5' Concrete Traffic Barrier.....	114.59
01 55 26 00-0073	DAY	>12.5' To 20' Concrete Traffic Barrier.....	25.46
01 55 26 00-0074	WK	>12.5' To 20' Concrete Traffic Barrier.....	76.39
01 55 26 00-0075	MO	>12.5' To 20' Concrete Traffic Barrier.....	229.18
01 55 26 00-0076	DAY	6' x 32" Tall Plastic Water Barrier.....	15.20
01 55 26 00-0077	WK	6' x 32" Tall Plastic Water Barrier.....	45.61
01 55 26 00-0078	MO	6' x 32" Tall Plastic Water Barrier.....	136.84
01 55 26 00-0079	DAY	6' x 46" Tall Plastic Water Barrier.....	21.71
01 55 26 00-0080	WK	6' x 46" Tall Plastic Water Barrier.....	65.13
01 55 26 00-0081	MO	6' x 46" Tall Plastic Water Barrier.....	195.40
01 55 26 00-0082	DAY	Sand Filled Crash Attenuator Barrels.....	8.50
01 55 26 00-0083	WK	Sand Filled Crash Attenuator Barrels.....	25.49
01 55 26 00-0084	MO	Sand Filled Crash Attenuator Barrels.....	76.48

01 55 26 00-0085

Portable Signs And Message Displays Usage (01 55 26 00-0028)

Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.

01 55 26 00-0086	DAY	Mesh Or Vinyl Roll-up Sign With Stand.....	6.67
01 55 26 00-0087	WK	Mesh Or Vinyl Roll-up Sign With Stand.....	20.02
01 55 26 00-0088	MO	Mesh Or Vinyl Roll-up Sign With Stand.....	60.05
01 55 26 00-0089	DAY	Aluminum Sign And Post.....	3.38
01 55 26 00-0090	WK	Aluminum Sign And Post.....	10.14
01 55 26 00-0091	MO	Aluminum Sign And Post.....	30.41
01 55 26 00-0092	DAY	Aluminum Sign And A Frame Stand.....	5.04
01 55 26 00-0093	WK	Aluminum Sign And A Frame Stand.....	15.13
01 55 26 00-0094	MO	Aluminum Sign And A Frame Stand.....	45.40
01 55 26 00-0095	DAY	Trailer Mounted Flashing Arrow Board.....	102.00
01 55 26 00-0096	WK	Trailer Mounted Flashing Arrow Board.....	282.32
01 55 26 00-0097	MO	Trailer Mounted Flashing Arrow Board.....	746.77
01 55 26 00-0098	DAY	Trailer Mounted Portable Variable Message Sign (PVMS).....	366.00
01 55 26 00-0099	WK	Trailer Mounted Portable Variable Message Sign (PVMS).....	976.00

01	General Requirements
01 50	Temporary Facilities and Controls
01 55	Vehicular Access and Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,952.00	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,136.03	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	3,408.09	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	10,224.27	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 Place And Remove Traffic Protection Using Truck <small>(01 55 26 00-0028)</small>		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck.....	3.37	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck	2.96	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.57	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	4.64	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	8.44	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck.....	6.75	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	8.44	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck.....	5.07	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck	21.09	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	63.29	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	85.83	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	214.58	
For 2 Barriers, Add	77.25	
For 3 Barriers, Add	25.75	
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	128.76	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	321.90	
For 2 Barriers, Add	115.88	
For 3 Barriers, Add	38.63	
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier.....	48.74	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	107.30	
For 2 Barriers, Add	38.63	
For 3 Barriers, Add	12.88	
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels	64.38	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	160.95	
For 2 Barriers, Add	57.94	
For 3 Barriers, Add	19.31	
01 55 26 00-0119 Place And Remove Traffic Protection From Roadside (Daily) <small>(01 55 26 00-0028)</small>		
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.11	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.69	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	2.81	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.24	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.21	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.37	
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.55	
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	31.64	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier	42.92	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0129 Temporary Rumble Strips <small>(01 55 26)</small>		
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	11.02	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	7.96	
01 56 Temporary Barriers and Enclosures <small>(01 50)</small>		
Note: Includes removal after use.		
01 56 16 Temporary Dust Barriers <small>(01 56)</small>		
01 56 16 00-0001 Temporary Sheeting For Protection <small>(01 56 16)</small>		
Note: Includes removal after use.		
01 56 16 00-0002 SF 6 Mil, Plastic Sheeting, Applied To Floors.....	0.33	
01 56 16 00-0003 SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.43	
01 56 16 00-0004 SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.57	
01 56 16 00-0005 SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.57	
01 56 16 00-0006 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.40	
01 56 16 00-0007 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.50	
01 56 16 00-0008 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.64	



General Requirements		01
Temporary Facilities and Controls		01 50
Temporary Barriers and Enclosures		01 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0009 SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.61	
01 56 16 00-0010 SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.77	
01 56 16 00-0011 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.42	
01 56 16 00-0012 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.52	
01 56 16 00-0013 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.66	
01 56 16 00-0014 SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.63	
01 56 16 00-0015 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.41	
01 56 16 00-0016 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.51	
01 56 16 00-0017 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.65	
01 56 16 00-0018 SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.62	
01 56 16 00-0019 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.47	
01 56 16 00-0020 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57	
01 56 16 00-0021 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.71	
01 56 16 00-0022 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.68	
01 56 16 00-0023 Accessories For Temporary Sheeting (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0024 EA 7' Zipper Door For Plastic Sheeting.....	21.59	
01 56 16 00-0025 LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	8.20	
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
01 56 16 00-0026 Temporary Critical Barriers For Protection (01 56 16)		
Note: Includes removal after use. See CSI section 02 89 00 00-0002 for Other barriers for infectious control.		
01 56 16 00-0027 EA Up To 1 SF Individual Critical Barriers.....	11.86	
Note: For Outlets And Receptacles		
01 56 16 00-0028 EA >1 To 4 SF Individual Critical Barriers.....	17.95	
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0029 EA >4 To 8 SF Individual Critical Barriers.....	24.12	
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0030 EA >8 To 32 SF Individual Critical Barriers.....	37.48	
Note: For doors, windows, etc.		
01 56 16 00-0031 Temporary Stud Wall (01 56 16)		
Note: Includes removal after use.		
01 56 16 00-0032 Temporary Stud Wall With Drywall (01 56 16 00-0031)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0033 Temporary Stud Wall With Drywall (01 56 16 00-0032)		
01 56 16 00-0034 SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0035 SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.24	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0036 SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.32	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0037 SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0038 SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.57	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0039 SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.73	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0040 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0032)		
01 56 16 00-0041 SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.33	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0042 SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.36	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0043 SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.31	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0044 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.93	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	
01 56 16 00-0045 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.75	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0046 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.80	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0047 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.71	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0048 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.95	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.72	
01 56 16 00-0049 Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0031)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0050 SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.23	
<i>For Metal Studs 24" On Center, Add/Deduct</i>		
	0.62	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0051	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.28	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0052	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.42	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0053	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.49	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0054	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.55	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0055	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.65	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0056	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	8.92	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0057	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.06	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0058			Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0031)</small>		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0059	SF		3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	6.56	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0060	SF		1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	6.73	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0061	SF		5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.40	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0062	SF		3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center	7.62	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.62	
01 56 16 00-0063	SF		3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.20	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0064	SF		1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.55	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0065	SF		5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.89	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0066	SF		3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	11.32	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.72	
01 56 16 00-0067			Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0031)</small>		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0068	SF		6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.63	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0069	SF		6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.70	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0070	SF		6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.72	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0071	SF		6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.71	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0072	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.77	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.51	
01 56 16 00-0073			Temporary Doors <small>(01 56 16 00-0031)</small>		
			Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0074	EA		Temporary Metal Door And Frame	641.83	
			Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.		
01 56 16 00-0075			Temporary Floor Protection <small>(01 56 16)</small>		
			Note: Includes removal after use.		
01 56 16 00-0076	SF		Masonite For Temporary Floor Protection	1.86	
01 56 16 00-0077	SF		1/2" Plywood For Temporary Floor Protection	1.87	
01 56 16 00-0078	SF		3/4" Plywood For Temporary Floor Protection	2.51	
01 56 16 00-0079	LF		38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection	1.12	
01 56 16 00-0080	LF		36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection	0.33	
01 56 16 00-0081	CSF		3 Mil, Temporary Self-adhesive Carpet Protection Film	22.38	
01 56 16 00-0082	SF		Burlap For Temporary Floor Protection.....	0.68	
01 56 16 00-0083			Sticky Mats <small>(01 56 16)</small>		
			Note: Includes removal after use.		
01 56 16 00-0084	EA		18" x 36", 30 Layer Sticky Mat	30.50	
			<i>For 60 Layers Instead Of 30, Add</i>	19.91	
01 56 16 00-0085	EA		18" x 46", 30 Layer Sticky Mat	34.93	
			<i>For 60 Layers Instead Of 30, Add</i>	23.24	
01 56 16 00-0086	EA		24" x 36", 30 Layer Sticky Mat	34.93	
			<i>For 60 Layers Instead Of 30, Add</i>	23.24	
01 56 16 00-0087	EA		25" x 45", 30 Layer Sticky Mat	45.99	
			<i>For 60 Layers Instead Of 30, Add</i>	31.53	
01 56 16 00-0088	EA		36" x 36", 30 Layer Sticky Mat	50.42	
			<i>For 60 Layers Instead Of 30, Add</i>	34.85	
01 56 16 00-0089	EA		36" x 46", 30 Layer Sticky Mat	54.84	
			<i>For 60 Layers Instead Of 30, Add</i>	38.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0090 EA 36" x 60", 30 Layer Sticky Mat..... <i>For 60 Layers Instead Of 30, Add</i>	110.16 79.66	
01 56 16 00-0091 EA 36" x 72", 30 Layer Sticky Mat.....	131.41	
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26) <i>Note: Per ASTM A392-06 Standards</i>		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001) <i>Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts.</i>		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	5.80 -0.13 -0.27 -0.40 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.46 -0.15 -0.30 -0.45 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	8.84 -0.25 -0.51 -0.76 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	19.22 -0.75 -1.50 -2.25 4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.07 -0.15 -0.29 -0.44 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.76 -0.16 -0.33 -0.49 2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.34 -0.28 -0.56 -0.83 3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	20.71 -0.83 -1.65 -2.48 4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.37 -0.16 -0.32 -0.48 1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.10 -0.18 -0.36 -0.54 2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.91 -0.31 -0.61 -0.92 3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	22.37 -0.91 -1.82 -2.73 4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	6.69	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.53	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	7.44	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	10.51	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.67	
For >500, Deduct	-1.01	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	24.18	
For >100 To 250, Deduct	-1.00	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-3.00	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0018 for core drilling in asphalt or concrete.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	228.12	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	389.05	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	435.27	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	495.69	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	593.26	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	660.88	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	244.48	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.72	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	471.80	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	547.35	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	661.36	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	751.58	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	273.18	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	482.91	
For Shade Cloth, Add	70.95	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	539.66	
For Shade Cloth, Add	85.14	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.19	
For Shade Cloth, Add	106.43	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	755.51	
For Shade Cloth, Add	141.90	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	878.78	
For Shade Cloth, Add	170.29	
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	330.51	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	578.20	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	647.47	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	740.58	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	905.32	
For Each LF Shade Cloth, Add	187.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	1,048.15 224.68	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	236.57 12.61	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	402.19 31.53	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	450.28 37.84	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	512.59 47.30	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	613.91 63.07	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	683.41 75.68	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	253.31 20.10	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	434.45 50.26	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	487.50 60.31	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	565.02 75.39	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	682.95 100.52	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	775.13 120.62	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	282.90 28.38	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	498.02 70.95	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	556.93 65.14	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	637.62 106.43	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	779.26 141.90	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	904.68 170.29	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	342.66 37.45	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	597.08 93.62	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	669.06 112.34	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	764.86 140.43	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	935.00 187.24	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,080.53 224.68	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	245.44 12.61	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	415.98 31.53	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	466.05 37.84	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	530.33 47.30	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	635.59 63.07	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	707.06 75.68	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	262.58	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	448.87	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	503.98	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	583.56	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	705.61	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	799.86	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	293.10	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	513.89	
For Shade Cloth, Add	70.95	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	575.06	
For Shade Cloth, Add	85.14	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	658.02	
For Shade Cloth, Add	106.43	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	804.19	
For Shade Cloth, Add	141.90	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	931.88	
For Shade Cloth, Add	170.29	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	355.40	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	616.92	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	691.72	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	790.36	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	966.16	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,114.53	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	254.31	
For Each LF Shade Cloth, Add	12.61	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	429.78	
For Each LF Shade Cloth, Add	31.53	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	481.82	
For Each LF Shade Cloth, Add	37.84	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	548.06	
For Each LF Shade Cloth, Add	47.30	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	657.27	
For Each LF Shade Cloth, Add	63.07	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	730.71	
For Each LF Shade Cloth, Add	75.68	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	271.85	
For Each LF Shade Cloth, Add	20.10	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	463.30	
For Each LF Shade Cloth, Add	50.26	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	520.46	
For Each LF Shade Cloth, Add	60.31	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	602.11	
For Each LF Shade Cloth, Add	75.39	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	728.28	
For Each LF Shade Cloth, Add	100.52	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	824.58	
For Each LF Shade Cloth, Add	120.62	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	303.30	
For Each LF Shade Cloth, Add	28.38	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	529.76	
For Shade Cloth, Add	70.95	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	593.19	
For Shade Cloth, Add	85.14	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	678.41	
For Shade Cloth, Add	106.43	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	829.12	
For Shade Cloth, Add	141.90	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	959.08	
For Shade Cloth, Add	170.29	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	368.15	
For Each LF Shade Cloth, Add	37.45	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	636.75	
For Each LF Shade Cloth, Add	93.62	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	714.39	
For Each LF Shade Cloth, Add	112.34	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	815.86	
For Each LF Shade Cloth, Add	140.43	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	997.33	
For Each LF Shade Cloth, Add	187.24	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,148.53	
For Each LF Shade Cloth, Add	224.68	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.32	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.48	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	7.03	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.53	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	9.52	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.57	
For >500, Deduct	-0.86	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	6.60	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.52	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	7.32	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.58	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	10.02	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.62	
For >500, Deduct	-0.93	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	6.87	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.37	
For >500, Deduct	-0.56	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.66	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.42	
For >500, Deduct	-0.63	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	10.59	
For >100 To 250, Deduct	-0.34	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.02	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	7.21	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.41	
For >500, Deduct	-0.61	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	8.00	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.68	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	11.18	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.11	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag	6.22	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.45	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.17	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	7.47	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	9.19	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.79	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	0.94	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.06	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	102.57	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	118.35	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	145.97	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	157.81	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.21	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
Note: Includes removal after use.		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	167.62	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	6.00	
For Each Additional Foot Over 8' Wide, Add	3.00	
For Each Additional Foot Over 8' High, Add	2.00	
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge	4.27	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Assembly	12.08	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	1.81	
01 56 29 00-0007 LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	13.61	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.04	
01 56 29 00-0008 LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	15.12	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.27	
01 56 29 00-0009 LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	15.12	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.27	



General Requirements	01	
Temporary Facilities and Controls	01 50	10
Temporary Barriers and Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0010 LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 16.61 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.49	16.61	
01 56 29 00-0011 LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 19.67 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.95	19.67	
01 56 29 00-0012 LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 18.16 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 2.72	18.16	
01 56 29 00-0013 LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 21.18 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 3.18	21.18	
01 56 29 00-0014 LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 22.66 Note: Includes spanning openings, planking and parapet, lighting and maintenance. For 3 Post System, Add 3.40	22.66	
01 56 29 00-0015 LF Monthly Rental of Netting for Sidewalk Bridge 2.27	2.27	
01 56 29 00-0016 Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017 LF Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly 34.89 Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system. For 3 Post System, Add 2.50 For Each Additional Foot Over 8' Wide, Add 1.25 For Each Additional Foot Over 8' High, Add 0.75	34.89	
01 56 29 00-0018 LF Removal Of Netting For Sidewalk Bridge 2.13	2.13	
01 56 29 00-0019 Safety Nets (01 56 29)		
01 56 29 00-0020 SF Small Mesh Debris Netting 1.86 Note: Includes removal after use. Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	1.86	
01 56 33 Temporary Security Barriers (01 56)		
01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)		
Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002 OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day 11.84	11.84	
01 56 33 00-0003 SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening 8.07	8.07	
01 56 33 00-0004 SF 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening 9.35	9.35	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)		
Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 11.27	11.27	
01 56 33 00-0007 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 27.36	27.36	
01 56 33 00-0008 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental 82.07	82.07	
01 56 39 Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001 Temporary Tree Guards (01 56 39)		
Note: Includes digging holes and removal after use.		
01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail 169.01	169.01	
01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail 199.65	199.65	
01 56 39 00-0004 EA 6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail 216.83	216.83	
01 58 Project Identification (01 50)		
Note: Includes removal after use.		
01 58 13 Temporary Project Signage (01 58)		
01 58 13 00-0001 Project Sign (01 58 13)		
01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001) Note: Excludes posts.		
01 58 13 00-0003 Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0004 Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)		
01 58 13 00-0005 EA Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign 143.13 For High-Intensity Grade, Add 34.91 For Diamond Grade, Add 67.32	143.13	21.70

01	General Requirements
01 50	Temporary Facilities and Controls
01 58	Project Identification



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0006 EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	244.82	22.69
For High-Intensity Grade, Add	69.81	
For Diamond Grade, Add	134.63	
01 58 13 00-0007 EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	346.53	23.67
For High-Intensity Grade, Add	104.71	
For Diamond Grade, Add	201.95	
01 58 13 00-0008 EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	448.22	24.66
For High-Intensity Grade, Add	139.62	
For Diamond Grade, Add	269.26	
01 58 13 00-0009 SF >32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	14.05	0.79
For High-Intensity Grade, Add	4.36	
For Diamond Grade, Add	8.42	
01 58 13 00-0010 Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0011 One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0012 EA Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	178.70	21.70
01 58 13 00-0013 EA >8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	212.96	22.69
01 58 13 00-0014 EA >16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	266.45	23.67
01 58 13 00-0015 EA >24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	316.94	24.66
01 58 13 00-0016 SF >32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	9.94	0.79
01 58 13 00-0017 Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)		
01 58 13 00-0018 EA Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	182.51	21.70
01 58 13 00-0019 EA >8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	233.50	22.69
01 58 13 00-0020 EA >16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	287.31	23.67
01 58 13 00-0021 EA >24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	334.83	24.66
01 58 13 00-0022 SF >32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	10.50	0.79
01 58 13 00-0023 Fabricate And Install New Posts (01 58 13 00-0001)		
Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024 LF Galvanized Metal Channel Sign Posts.....	14.93	
01 58 13 00-0025 LF 4" x 4" Pressure Treated Wood Sign Posts.....	12.59	
01 58 13 00-0026 LF 4" x 6" Pressure Treated Wood Sign Posts.....	14.92	
01 58 13 00-0027 Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028 EA Installation And Removal Of Owner Supplied Project Sign.....	78.91	
01 60 Product Requirements (01)		
01 66 Product Storage and Handling Requirements (01 60)		
01 66 19 Product Handling Requirements (01 66)		
Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.		
01 66 19 00-0001 Transfer Delivered Materials Between Floors (01 66 19)		
Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002 CY Transfer Delivered Material Between Floors Via Stairs, Per Floor.....	15.18	
Note: Quantity equals volume of materials multiplied by number of floors traveled.		
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip.....	9.86	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' (01 66 19)		
Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'.....	6.16	
01 66 19 00-0006 Transfer Demolition Debris Between Floors (01 66 19)		
Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor.....	15.18	
Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip.....	9.86	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' (01 66 19)		
Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....	6.16	
01 66 19 00-0011 Moving Furniture And Furnishings (01 66 19)		
Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		



		General Requirements	01
		Product Requirements	01 60
		Product Storage and Handling Requirements	01 66

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 66 19 00-0012	SF		Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings.....	0.98	
Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.					

01 70 Execution and Closeout Requirements⁽⁰¹⁾

01 71 Examination and Preparation^(01 70)

01 71 13 Mobilization^(01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization^(01 71 13)

Note: Excludes flagman for traffic control where necessary.

01 71 13 00-0002	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	280.40	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.					
01 71 13 00-0003	EA		Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	951.57	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.					

01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization^(01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005	EA		Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane	448.64	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				112.16	
For >60 To 100 Miles Radius, Add				179.46	
01 71 13 00-0006	EA		>20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	729.03	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				182.26	
For >60 To 100 Miles Radius, Add				291.61	
01 71 13 00-0007	EA		>40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,009.43	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				252.36	
For >60 To 100 Miles Radius, Add				403.77	
01 71 13 00-0008	EA		>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,626.30	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				406.58	
For >60 To 100 Miles Radius, Add				650.52	
01 71 13 00-0009	EA		>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,041.28	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				510.32	
For >60 To 100 Miles Radius, Add				816.51	
01 71 13 00-0010	EA		>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	2,540.38	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				635.10	
For >60 To 100 Miles Radius, Add				1,016.15	
01 71 13 00-0011	EA		>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane	2,927.34	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				731.84	
For >60 To 100 Miles Radius, Add				1,170.94	
01 71 13 00-0012	EA		>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane	3,275.02	
Note: Includes delivery and pickup.					
For >30 To 60 Miles Radius, Add				818.76	
For >60 To 100 Miles Radius, Add				1,310.01	
01 71 13 00-0013	EA		75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	1,738.45	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				434.61	
For >60 To 100 Miles Radius, Add				695.38	
01 71 13 00-0014	EA		100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	2,747.88	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				686.97	
For >60 To 100 Miles Radius, Add				1,099.15	
01 71 13 00-0015	EA		125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	3,476.90	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				869.23	
For >60 To 100 Miles Radius, Add				1,390.76	
01 71 13 00-0016	EA		150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	4,318.09	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				1,079.52	
For >60 To 100 Miles Radius, Add				1,727.24	
01 71 13 00-0017	EA		200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	5,383.60	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				1,345.90	
For >60 To 100 Miles Radius, Add				2,153.44	
01 71 13 00-0018	EA		250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	6,280.86	
Note: Includes delivery, rigging and pickup.					
For >30 To 60 Miles Radius, Add				1,570.22	
For >60 To 100 Miles Radius, Add				2,512.34	

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 71	Examination and Preparation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0019	EA		300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	8,972.66	
			For >30 To 60 Miles Radius, Add	2,243.17	
			For >60 To 100 Miles Radius, Add	3,589.06	
01 71 13 00-0020	EA		500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup.	12,303.76	
			For >30 To 60 Miles Radius, Add	3,075.94	
			For >60 To 100 Miles Radius, Add	4,921.50	
01 71 23 Field Engineering (01 71)					
01 71 23 16 Construction Surveying (01 71 23)					
01 71 23 16-0001			Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002	ACR		Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,077.59	
01 71 23 16-0003	ACR		Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	3,026.44	
01 71 23 16-0004	ACR		Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings)	4,345.38	
01 71 23 16-0005	ACR		Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	6,539.90	
01 71 23 16-0006	ACR		Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	8,189.87	
01 71 23 16-0007			Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008	LF		Survey Property Lines On Cleared Land	2.43	
01 71 23 16-0009	LF		Survey Property Lines On Slightly Wooded Land	2.81	
01 71 23 16-0010	LF		Survey Property Lines On Wooded Land.....	3.30	
01 71 23 16-0011			Survey Monument (01 71 23 16)		
01 71 23 16-0012	EA		3' Precast Survey Monument	166.39	
			For Owner Furnished Monument, Deduct	-68.67	
01 71 23 16-0013	EA		Precast Survey Monument Box With Cast Iron Frame And Cover	248.38	
01 71 23 16-0014	EA		Riser Ring For Survey Monument.....	127.43	
01 71 23 16-0015	EA		Adjust Survey Monument Cover To Grade	206.02	
01 71 23 16-0016			Facade Surveying (01 71 23 16)		
01 71 23 16-0017	LF		Facade Survey And Reports (LF Of Facade x Number Of Floors).....	6.67	
01 71 23 16-0018			Utility Survey (01 71 23 16) Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019	ACR		Survey Clear Area For Underground Utilities.....	5,596.93	
01 71 36 Non-Destructive Concrete Examination (01 71)					
01 71 36 00-0001			Electromagnetic Survey (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002			Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003	EA		Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	906.24	
01 71 36 00-0004	EA		>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,359.36	
01 71 36 00-0005	EA		>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	2,718.72	
01 71 36 00-0006			Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007	EA		Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	302.08	
01 71 36 00-0008	EA		GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes GPS coordinates of located items and reference items.	604.16	
01 71 36 00-0009	EA		CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes additions to the owner provided CAD drawing.	1,359.36	
01 74 Cleaning and Waste Management (01 70)					
01 74 13 Progress Cleaning (01 74) Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.					
01 74 13 00-0001			General (01 74 13)		
01 74 13 00-0002	CSF		Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	19.75	



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Cleaning and Waste Management	01 74	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster Note: Per CY of debris removed.	23.14	
01 74 16 Site Maintenance (01 74)		
01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002 Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	19.67	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	23.60	
01 74 16 00-0005 Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	29.51	
01 74 19 Construction Waste Management and Disposal (01 74)		
Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001 Debris Chutes (01 74 19) Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002 Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	36.55	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	55.00	
01 74 19 00-0005 Plastic Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	14.45	
For Steel Liner, Add	2.79	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	16.57	
For Steel Liner, Add	3.21	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	18.67	
For Steel Liner, Add	3.61	
01 74 19 00-0009 Wood Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute	27.98	
Note: Includes fabrication and installation.		
01 74 19 00-0011 Construction Dumpsters Rental (01 74 19) Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012 EA 10 CY Dumpster (1.5 Ton) "Construction Debris"	585.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris"	584.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0014 EA 20 CY Dumpster (3 Ton) "Construction Debris"	635.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0015 EA 30 CY Dumpster (4 Ton) "Construction Debris"	684.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0016 EA 40 CY Dumpster (6 Ton) "Construction Debris"	765.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	765.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	732.21	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	786.85	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 Concrete Washout Service (01 74 19)		
01 74 19 00-0021 MO Ramplless Concrete Washout Bin	546.47	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin	655.77	
Note: Includes delivery.		

01	01	General Requirements
	01 70	Execution and Closeout Requirements
	01 74	Cleaning and Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.	498.66	
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.	1,080.43	
01 74 19 00-0025 Debris Processing Fee <small>(01 74 19)</small>		
01 74 19 00-0026 Material Recycling Fees <small>(01 74 19 00-0025)</small> Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center.....	45.04	
01 74 19 00-0028 CY Drop-Off Non Reinforced Concrete At Recycling Center	60.34	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	90.52	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....	78.45	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	87.50	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	84.48	
01 74 19 00-0033 Landfill Dump Fees <small>(01 74 19 00-0025)</small> Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	40.16	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....	175.00	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee.....	48.34	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee..... Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.	115.26	
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	81.90	
01 74 19 00-0039 Hauling <small>(01 74 19)</small> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0040 CYM Hauling On Paved Roads, First 15 Miles.....	0.90	
01 74 19 00-0041 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.60	
01 74 19 00-0042 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.38	
01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.08	
01 74 23 Final Cleaning <small>(01 74)</small>		
01 74 23 00-0001 Cleaning Of Glass <small>(01 74 23)</small>		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces	26.68	

END OF SECTION 01



Existing Conditions	02
Assessment	02 20
Existing Material Assessment	02 25

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 Existing Conditions

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

02 25 16 Existing Concrete, Masonry or Asphalt Assessment ^(02 25)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 25 16 13 Concrete Assessment Drilling ^(02 25 16)

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

02 40 Demolition and Structure Moving ⁽⁰²⁾

02 41 Demolition ^(02 40)

02 41 19 Selective Demolition ^(02 41)

02 41 19 13 Selective Building Demolition ^(02 41 19)

02 41 19 13-0001 Saw Cutting ^(02 41 19 13)

Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.

02 41 19 13-0002	LF	Brick Masonry Up To 4" Depth, Saw Cut	7.62
		For Each Additional Pass (Depth To 3"), Add	3.02
		For >250, Deduct	-0.75
02 41 19 13-0003	LF	Concrete Block Up To 4" Depth, Saw Cut	6.89
		For Each Additional Pass (Depth To 3"), Add	2.73
		For >250, Deduct	-0.68
02 41 19 13-0004	LF	Saw Cut Concrete Slab Up To 4" Depth	2.29
		For Each Additional Pass (Depth To 3"), Add	0.89
		For >250, Deduct	-0.22
02 41 19 13-0005	LF	Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.03
		For Each Additional Pass (Depth To 3"), Add	1.18
		For >250, Deduct	-0.29
02 41 19 13-0006	LF	Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.04
		For Each Additional Pass (Depth To 3"), Add	1.98
		For >250, Deduct	-0.49
02 41 19 13-0007	LF	Plain Concrete Walls Up To 4" Depth, Saw Cut	9.75
		For Each Additional Pass (Depth To 3"), Add	3.87
		For >250, Deduct	-0.97
02 41 19 13-0008	LF	Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	13.10
		For Each Additional Pass (Depth To 3"), Add	5.20
		For >250, Deduct	-1.30
02 41 19 13-0009	EA	Saw Cut Minimum Charge	935.84

Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 41 19 13-0010 Torch Cutting ^(02 41 19 13)

Note: Includes grinding edge

02 41 19 13-0011	LF	Up To 1/2", Torch Cut Steel Plate	2.87
02 41 19 13-0012	LF	>1/2" To 1" Thick, Torch Cut Steel Plate	5.74
02 41 19 13-0013	LF	>1" To 1-1/2" Thick, Torch Cut Steel Plate	8.61
02 41 19 13-0014	LF	>1-1/2" To 2" Thick, Torch Cut Steel Plate	11.48
02 41 19 13-0015	LF	>2" To 2-1/2" Thick, Torch Cut Steel Plate	14.36
02 41 19 13-0016	LF	>2-1/2" To 3" Thick, Torch Cut Steel Plate	17.23
02 41 19 13-0017	EA	Torch Cutting Minimum Charge	907.59

Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 41 19 13-0018 Drilling In Existing Materials ^(02 41 19 13)

Note: Includes drill bit wear, water, layout, set-up and clean-up.

02 41 19 13-0019 Concrete Core Drilling ^(02 41 19 13-0018)

02 41 19 13-0020 Up To 4" Thick Concrete Core Drilling ^(02 41 19 13-0019)

02 41 19 13-0021	EA	Drill 1" Diameter Core In Up To 4" Concrete	37.23
		For Horizontal Cores, Add	7.40
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.81
02 41 19 13-0022	EA	Drill 1-1/2" Diameter Core In Up To 4" Concrete	41.33
		For Horizontal Cores, Add	8.22
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.45
02 41 19 13-0023	EA	Drill 2" Diameter Core In Up To 4" Concrete	45.91
		For Horizontal Cores, Add	9.14
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.28
02 41 19 13-0024	EA	Drill 3" Diameter Core In Up To 4" Concrete	65.57
		For Horizontal Cores, Add	13.06
		For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.11

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0025 EA Drill 4" Diameter Core In Up To 4" Concrete.....	87.87	
For Horizontal Cores, Add	17.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.99	
02 41 19 13-0026 EA Drill 6" Diameter Core In Up To 4" Concrete.....	98.40	
For Horizontal Cores, Add	19.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.17	
02 41 19 13-0027 EA Drill 8" Diameter Core In Up To 4" Concrete.....	157.34	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0028 EA Drill 10" Diameter Core In Up To 4" Concrete.....	196.76	
For Horizontal Cores, Add	39.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.34	
02 41 19 13-0029 EA Drill 12" Diameter Core In Up To 4" Concrete.....	229.60	
For Horizontal Cores, Add	45.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.40	
02 41 19 13-0030 EA Drill 14" Diameter Core In Up To 4" Concrete.....	262.40	
For Horizontal Cores, Add	52.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.44	
02 41 19 13-0031 EA Drill 18" Diameter Core In Up To 4" Concrete.....	295.41	
For Horizontal Cores, Add	58.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	117.50	
02 41 19 13-0032 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0033 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	53.19	
For Horizontal Cores, Add	10.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.14	
02 41 19 13-0034 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	59.08	
For Horizontal Cores, Add	11.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.50	
02 41 19 13-0035 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	65.60	
For Horizontal Cores, Add	13.05	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.11	
02 41 19 13-0036 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	78.79	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0037 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	98.51	
For Horizontal Cores, Add	19.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.17	
02 41 19 13-0038 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	131.31	
For Horizontal Cores, Add	26.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.23	
02 41 19 13-0039 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	196.86	
For Horizontal Cores, Add	39.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.34	
02 41 19 13-0040 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	229.87	
For Horizontal Cores, Add	45.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.40	
02 41 19 13-0041 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	262.73	
For Horizontal Cores, Add	52.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.44	
02 41 19 13-0042 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	295.73	
For Horizontal Cores, Add	58.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	117.50	
02 41 19 13-0043 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	328.96	
For Horizontal Cores, Add	65.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	130.56	
02 41 19 13-0044 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0045 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	58.61	
For Horizontal Cores, Add	11.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.27	
02 41 19 13-0046 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	65.07	
For Horizontal Cores, Add	12.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.85	
02 41 19 13-0047 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	72.25	
For Horizontal Cores, Add	14.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.72	
02 41 19 13-0048 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	85.48	
For Horizontal Cores, Add	16.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.95	
02 41 19 13-0049 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	111.77	
For Horizontal Cores, Add	22.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.39	
02 41 19 13-0050 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	157.67	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0051 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	262.46	
For Horizontal Cores, Add	52.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.44	
02 41 19 13-0052 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	295.55	
For Horizontal Cores, Add	58.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	117.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0053 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	328.56	
<i>For Horizontal Cores, Add</i>	65.28	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.56	
02 41 19 13-0054 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	361.65	
<i>For Horizontal Cores, Add</i>	71.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0055 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	395.16	
<i>For Horizontal Cores, Add</i>	78.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.68	
02 41 19 13-0056 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0057 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	69.30	
<i>For Horizontal Cores, Add</i>	13.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.50	
02 41 19 13-0058 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	76.94	
<i>For Horizontal Cores, Add</i>	15.28	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.55	
02 41 19 13-0059 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	85.42	
<i>For Horizontal Cores, Add</i>	16.97	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.94	
02 41 19 13-0060 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	98.69	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0061 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	111.97	
<i>For Horizontal Cores, Add</i>	22.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	44.39	
02 41 19 13-0062 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	157.92	
<i>For Horizontal Cores, Add</i>	31.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.67	
02 41 19 13-0063 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	262.80	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.44	
02 41 19 13-0064 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	296.00	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0065 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	329.04	
<i>For Horizontal Cores, Add</i>	65.27	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	130.54	
02 41 19 13-0066 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	362.33	
<i>For Horizontal Cores, Add</i>	71.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	143.60	
02 41 19 13-0067 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	395.96	
<i>For Horizontal Cores, Add</i>	78.32	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	156.64	
02 41 19 13-0068 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0069 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	74.71	
<i>For Horizontal Cores, Add</i>	14.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.61	
02 41 19 13-0070 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	82.94	
<i>For Horizontal Cores, Add</i>	16.45	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	32.90	
02 41 19 13-0071 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	92.08	
<i>For Horizontal Cores, Add</i>	18.28	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.56	
02 41 19 13-0072 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	98.85	
<i>For Horizontal Cores, Add</i>	19.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.17	
02 41 19 13-0073 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	131.78	
<i>For Horizontal Cores, Add</i>	26.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.23	
02 41 19 13-0074 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	171.24	
<i>For Horizontal Cores, Add</i>	33.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	67.90	
02 41 19 13-0075 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	276.22	
<i>For Horizontal Cores, Add</i>	54.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	109.68	
02 41 19 13-0076 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	296.45	
<i>For Horizontal Cores, Add</i>	58.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	117.50	
02 41 19 13-0077 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	342.73	
<i>For Horizontal Cores, Add</i>	67.90	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	135.80	
02 41 19 13-0078 >12" Thick Concrete Core Drilling (02 41 19 13-0019)		
02 41 19 13-0079 IN Drill 1" Diameter Core In >12" Concrete.....	9.11	
<i>For Horizontal Cores, Add</i>	1.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.62	
02 41 19 13-0080 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	10.12	
<i>For Horizontal Cores, Add</i>	2.01	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.02	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0081 IN Drill 2" Diameter Core In >12" Concrete	11.23	
For Horizontal Cores, Add	2.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.47	
02 41 19 13-0082 IN Drill 3" Diameter Core In >12" Concrete	12.32	
For Horizontal Cores, Add	2.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.90	
02 41 19 13-0083 IN Drill 4" Diameter Core In >12" Concrete	16.42	
For Horizontal Cores, Add	3.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.53	
02 41 19 13-0084 IN Drill 6" Diameter Core In >12" Concrete	21.35	
For Horizontal Cores, Add	4.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	8.49	
02 41 19 13-0085 IN Drill 8" Diameter Core In >12" Concrete	34.47	
For Horizontal Cores, Add	6.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.72	
02 41 19 13-0086 IN Drill 10" Diameter Core In >12" Concrete	37.10	
For Horizontal Cores, Add	7.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.75	
02 41 19 13-0087 IN Drill 12" Diameter Core In >12" Concrete	42.73	
For Horizontal Cores, Add	8.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.98	
02 41 19 13-0088 Brick/Concrete Block Core Drilling (02 41 19 13-0018)		
02 41 19 13-0089 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0090 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	29.83	
For Horizontal Cores, Add	5.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.85	
02 41 19 13-0091 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	33.10	
For Horizontal Cores, Add	6.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.16	
02 41 19 13-0092 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	36.77	
For Horizontal Cores, Add	7.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.62	
02 41 19 13-0093 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	52.52	
For Horizontal Cores, Add	10.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0094 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	70.37	
For Horizontal Cores, Add	14.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.99	
02 41 19 13-0095 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	78.82	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0096 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	126.01	
For Horizontal Cores, Add	25.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	50.14	
02 41 19 13-0097 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	157.59	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	
02 41 19 13-0098 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	183.90	
For Horizontal Cores, Add	36.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	73.12	
02 41 19 13-0099 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	210.18	
For Horizontal Cores, Add	41.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.56	
02 41 19 13-0100 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	236.65	
For Horizontal Cores, Add	47.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	94.00	
02 41 19 13-0101 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0102 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	42.62	
For Horizontal Cores, Add	8.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.92	
02 41 19 13-0103 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	47.32	
For Horizontal Cores, Add	9.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.80	
02 41 19 13-0104 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	52.55	
For Horizontal Cores, Add	10.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.89	
02 41 19 13-0105 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	63.12	
For Horizontal Cores, Add	12.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.07	
02 41 19 13-0106 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	78.93	
For Horizontal Cores, Add	15.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.34	
02 41 19 13-0107 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	105.20	
For Horizontal Cores, Add	20.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.78	
02 41 19 13-0108 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	157.69	
For Horizontal Cores, Add	31.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0109 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	184.17	
<i>For Horizontal Cores, Add</i>	36.56	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.12	
02 41 19 13-0110 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	210.51	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0111 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	236.97	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0112 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	263.69	
<i>For Horizontal Cores, Add</i>	52.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.45	
02 41 19 13-0113 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0114 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	46.97	
<i>For Horizontal Cores, Add</i>	9.31	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.61	
02 41 19 13-0115 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	52.14	
<i>For Horizontal Cores, Add</i>	10.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.68	
02 41 19 13-0116 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	57.89	
<i>For Horizontal Cores, Add</i>	11.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.98	
02 41 19 13-0117 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	68.51	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0118 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	89.59	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0119 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	126.34	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0120 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	210.24	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0121 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	236.79	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0122 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	263.29	
<i>For Horizontal Cores, Add</i>	52.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.45	
02 41 19 13-0123 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	289.85	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0124 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	316.82	
<i>For Horizontal Cores, Add</i>	62.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.34	
02 41 19 13-0125 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)		
02 41 19 13-0126 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	55.55	
<i>For Horizontal Cores, Add</i>	11.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.00	
02 41 19 13-0127 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	61.66	
<i>For Horizontal Cores, Add</i>	12.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.44	
02 41 19 13-0128 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	68.46	
<i>For Horizontal Cores, Add</i>	13.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.16	
02 41 19 13-0129 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	79.11	
<i>For Horizontal Cores, Add</i>	15.67	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34	
02 41 19 13-0130 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	89.79	
<i>For Horizontal Cores, Add</i>	17.76	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	35.52	
02 41 19 13-0131 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	126.59	
<i>For Horizontal Cores, Add</i>	25.07	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	50.14	
02 41 19 13-0132 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	210.58	
<i>For Horizontal Cores, Add</i>	41.78	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	83.56	
02 41 19 13-0133 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	237.24	
<i>For Horizontal Cores, Add</i>	47.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00	
02 41 19 13-0134 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	263.78	
<i>For Horizontal Cores, Add</i>	52.22	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.43	
02 41 19 13-0135 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	290.53	
<i>For Horizontal Cores, Add</i>	57.44	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	114.88	
02 41 19 13-0136 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	317.64	
<i>For Horizontal Cores, Add</i>	62.66	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	125.32	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0137		>10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)	
02 41 19 13-0138	EA	Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	59.91
		<i>For Horizontal Cores, Add</i>	11.85
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.69
02 41 19 13-0139	EA	Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block	66.48
		<i>For Horizontal Cores, Add</i>	13.16
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.32
02 41 19 13-0140	EA	Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	73.80
		<i>For Horizontal Cores, Add</i>	14.62
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	29.25
02 41 19 13-0141	EA	Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	79.27
		<i>For Horizontal Cores, Add</i>	15.67
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.34
02 41 19 13-0142	EA	Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	105.67
		<i>For Horizontal Cores, Add</i>	20.89
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	41.78
02 41 19 13-0143	EA	Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	137.28
		<i>For Horizontal Cores, Add</i>	27.16
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	54.32
02 41 19 13-0144	EA	Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	221.37
		<i>For Horizontal Cores, Add</i>	43.87
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	87.74
02 41 19 13-0145	EA	Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	237.69
		<i>For Horizontal Cores, Add</i>	47.00
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	94.00
02 41 19 13-0146	EA	Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	274.84
		<i>For Horizontal Cores, Add</i>	54.32
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	108.64
02 41 19 13-0147		>12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0088)	
02 41 19 13-0148	IN	Drill 1" Diameter Core In >12" Brick/Concrete Block	7.30
		<i>For Horizontal Cores, Add</i>	1.45
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.90
02 41 19 13-0149	IN	Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	8.10
		<i>For Horizontal Cores, Add</i>	1.61
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.22
02 41 19 13-0150	IN	Drill 2" Diameter Core In >12" Brick/Concrete Block	9.00
		<i>For Horizontal Cores, Add</i>	1.79
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.58
02 41 19 13-0151	IN	Drill 3" Diameter Core In >12" Brick/Concrete Block	9.87
		<i>For Horizontal Cores, Add</i>	1.96
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.92
02 41 19 13-0152	IN	Drill 4" Diameter Core In >12" Brick/Concrete Block	13.15
		<i>For Horizontal Cores, Add</i>	2.61
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.22
02 41 19 13-0153	IN	Drill 6" Diameter Core In >12" Brick/Concrete Block	17.11
		<i>For Horizontal Cores, Add</i>	3.40
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	6.80
02 41 19 13-0154	IN	Drill 8" Diameter Core In >12" Brick/Concrete Block	27.62
		<i>For Horizontal Cores, Add</i>	5.49
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.98
02 41 19 13-0155	IN	Drill 10" Diameter Core In >12" Brick/Concrete Block	29.73
		<i>For Horizontal Cores, Add</i>	5.90
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.80
02 41 19 13-0156	IN	Drill 12" Diameter Core In >12" Brick/Concrete Block	34.24
		<i>For Horizontal Cores, Add</i>	6.79
		<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.59
02 41 19 13-0157		Drilling In Concrete Per Inch Of Depth (02 41 19 13-0018)	
Note: Includes layout.			
02 41 19 13-0158	IN	1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.02
02 41 19 13-0159	IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.13
02 41 19 13-0160	IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.28
02 41 19 13-0161	IN	5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.43
02 41 19 13-0162	IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.67
02 41 19 13-0163	IN	7/8" Diameter Drilling In Concrete Per Inch Of Depth	2.90
02 41 19 13-0164	IN	1" Diameter Drilling In Concrete Per Inch Of Depth	3.05
02 41 19 13-0165	IN	1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.35
02 41 19 13-0166	IN	1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	3.81
02 41 19 13-0167		Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0018)	
Note: Includes layout.			
02 41 19 13-0168	IN	1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.69
02 41 19 13-0169	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.77
02 41 19 13-0170	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90
02 41 19 13-0171	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.02
02 41 19 13-0172	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.22
02 41 19 13-0173	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.42
02 41 19 13-0174	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0175 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.80	
02 41 19 13-0176 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.47	
02 41 19 13-0177 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0018)		
Note: Includes layout.		
02 41 19 13-0178 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.84	
02 41 19 13-0179 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.89	
02 41 19 13-0180 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.95	
02 41 19 13-0181 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.01	
02 41 19 13-0182 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.11	
02 41 19 13-0183 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.20	
02 41 19 13-0184 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.27	
02 41 19 13-0185 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.40	
02 41 19 13-0186 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.64	
02 41 19 13-0187 Minimum Charge For Core Drilling (02 41 19 13-0018)		
02 41 19 13-0188 EA Core Drill Minimum Charge.....	754.18	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".		
02 41 19 13-0189 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0190 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0189)		
02 41 19 13-0191 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	45.07	
02 41 19 13-0192 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	47.80	
02 41 19 13-0193 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	50.53	
02 41 19 13-0194 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	53.27	
02 41 19 13-0195 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	54.62	
02 41 19 13-0196 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0189)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0197 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	54.93	
02 41 19 13-0198 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	58.25	
02 41 19 13-0199 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	61.59	
02 41 19 13-0200 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	64.91	
02 41 19 13-0201 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	66.58	
02 41 19 13-0202 Reinforced Concrete Wall Cutouts (02 41 19 13-0189)		
02 41 19 13-0203 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	56.34	
02 41 19 13-0204 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	59.75	
02 41 19 13-0205 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	63.16	
02 41 19 13-0206 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	66.58	
02 41 19 13-0207 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	68.29	
02 41 19 13-0208 Brick Wall Cutouts (02 41 19 13-0189)		
Note: Excludes toothing.		
02 41 19 13-0209 SF 4" Thick Brick Wall Cutouts, <24 SF.....	17.07	
02 41 19 13-0210 SF 6" Thick Brick Wall Cutouts, <24 SF.....	28.17	
02 41 19 13-0211 SF 8" Thick Brick Wall Cutouts, <24 SF.....	39.23	
02 41 19 13-0212 SF 10" Thick Brick Wall Cutouts, <24 SF.....	47.80	
02 41 19 13-0213 SF 12" Thick Brick Wall Cutouts, <24 SF.....	57.19	
02 41 19 13-0214 SF 16" Thick Brick Wall Cutouts, <24 SF.....	67.43	
02 41 19 13-0215 Concrete Block Wall Cutouts (02 41 19 13-0189)		
Note: Excludes toothing.		
02 41 19 13-0216 SF 4" Thick Concrete Block Wall Cutouts, <24 SF.....	28.24	
02 41 19 13-0217 SF 6" Thick Concrete Block Wall Cutouts, <24 SF.....	29.91	
02 41 19 13-0218 SF 8" Thick Concrete Block Wall Cutouts, <24 SF.....	31.58	
02 41 19 13-0219 SF 10" Thick Concrete Block Wall Cutouts, <24 SF.....	33.29	
02 41 19 13-0220 SF 12" Thick Concrete Block Wall Cutouts, <24 SF.....	34.14	
02 41 19 13-0221 SF 16" Thick Concrete Block Wall Cutouts, <24 SF.....	35.85	
02 41 19 13-0222 Limestone Cutouts (02 41 19 13-0189)		
02 41 19 13-0223 SF 2" Thick Limestone Cutouts, <24 SF.....	47.80	
02 41 19 13-0224 SF 4" Thick Limestone Cutouts, <24 SF.....	58.04	
02 41 19 13-0225 SF 6" Thick Limestone Cutouts, <24 SF.....	61.45	
02 41 19 13-0226 SF 8" Thick Limestone Cutouts, <24 SF.....	64.87	
02 41 19 13-0227 SF 10" Thick Limestone Cutouts, <24 SF.....	68.29	
02 41 19 13-0228 SF 12" Thick Limestone Cutouts, <24 SF.....	71.70	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0229 Toothing Masonry Cutouts <small>(02 41 19 13-0189)</small> Note: For use where existing masonry must be removed in a tothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0230 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	17.07	
02 41 19 13-0231 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	23.04	
02 41 19 13-0232 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	10.24	
02 41 19 13-0233 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts.....	13.66	
02 41 19 13-0234 Minimum Charge For Cutouts <small>(02 41 19 13-0189)</small> Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0235 EA Cutouts Minimum Charge	341.42	
02 41 19 13-0236 Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0237 Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0236)</small>		
02 41 19 13-0238 VLF 8" x 8" Masonry Column Removal	13.29	
02 41 19 13-0239 VLF 10" x 10" Masonry Column Removal	20.76	
02 41 19 13-0240 VLF 12" x 12" Masonry Column Removal	26.58	
02 41 19 13-0241 VLF 14" x 14" Masonry Column Removal	33.28	
02 41 19 13-0242 VLF 16" x 16" Masonry Column Removal	40.89	
02 41 19 13-0243 CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	22.96	
02 41 19 13-0244 Masonry Chimney Removal <small>(02 41 19 13-0236)</small>		
02 41 19 13-0245 CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	26.93	
02 41 19 13-0246 CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	20.22	
02 41 19 13-0247 CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	15.48	
02 41 19 13-0248 CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed.....	10.71	
02 41 19 13-0249 Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0236)</small> Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0250 LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	18.82	
02 41 19 13-0251 LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	28.16	
02 41 19 13-0252 LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping.....	53.86	
02 41 19 13-0253 Facade Removal <small>(02 41 19 13-0236)</small> Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0254 SF Stone Or Brick Veneer Facade Removal	5.05	
<i>For Cleaning and Storage For Reuse, Add</i>	7.58	
02 41 19 13-0255 Exterior Masonry Removal <small>(02 41 19 13-0236)</small> Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0256 SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....	4.45	
02 41 19 13-0257 SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall	5.01	
02 41 19 13-0258 SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall	6.06	
02 41 19 13-0259 SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....	6.64	
02 41 19 13-0260 SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....	7.28	
02 41 19 13-0261 SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....	9.11	
02 41 19 13-0262 SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.26	
02 41 19 13-0263 SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.02	
02 41 19 13-0264 SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.28	
02 41 19 13-0265 SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	7.96	
02 41 19 13-0266 SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	8.74	
02 41 19 13-0267 SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	10.93	
02 41 19 13-0268 SF Demolish 4" Thick Brick Exterior Wall.....	4.45	
<i>For Cleaning and Storage For Reuse, Add</i>	6.68	
02 41 19 13-0269 SF Demolish 6" Thick Brick Exterior Wall.....	5.01	
<i>For Cleaning and Storage For Reuse, Add</i>	7.52	
02 41 19 13-0270 SF Demolish 8" Thick Brick Exterior Wall.....	6.06	
<i>For Cleaning and Storage For Reuse, Add</i>	9.09	
02 41 19 13-0271 SF Demolish 10" Thick Brick Exterior Wall.....	6.64	
<i>For Cleaning and Storage For Reuse, Add</i>	9.96	
02 41 19 13-0272 SF Demolish 12" Thick Brick Exterior Wall.....	7.28	
<i>For Cleaning and Storage For Reuse, Add</i>	10.92	
02 41 19 13-0273 SF Demolish 16" Thick Brick Exterior Wall.....	9.11	
<i>For Cleaning and Storage For Reuse, Add</i>	13.67	
02 41 19 13-0274 CF Exterior Brick, Concrete Block Or Composite Removal	12.95	
<i>For Cleaning and Storage For Reuse, Add</i>	19.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0275 Lintel Removal <small>(02 41 19 13-0236)</small>		
<small>Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0276 LF Demolish Steel Lintel	17.43	
02 41 19 13-0277 LF Demolish Concrete Or Stone Lintel	23.24	
02 41 19 13-0278 LF Demolish Steel Shelf Angle	18.40	
02 41 19 13-0279 Reinstall Lintel <small>(02 41 19 13-0236)</small>		
<small>Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 19 13-0280 LF Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	10.68	
02 41 19 13-0281 LF Reinstall Existing Concrete Or Stone Lintel.....	23.24	
02 41 19 13-0282 LF Reinstall Existing Steel Shelf Angle	47.22	
<small>Note: Includes fasteners.</small>		
02 41 19 13-0283 LF Reinstall Existing Steel Lintel.....	19.37	
02 41 19 13-0284 LF Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	80.71	
02 41 19 13-0285 LF Removal And Replacement Of Steel Lintel Over Window Openings	137.18	
02 41 19 13-0286 Exterior Concrete Wall Removal <small>(02 41 19 13)</small>		
02 41 19 13-0287 SF Demolish 4" Thick Reinforced Concrete Exterior Wall	5.96	
02 41 19 13-0288 SF Demolish 6" Thick Reinforced Concrete Exterior Wall	10.81	
02 41 19 13-0289 SF Demolish 8" Thick Reinforced Concrete Exterior Wall	13.57	
02 41 19 13-0290 SF Demolish 10" Thick Reinforced Concrete Exterior Wall	16.01	
02 41 19 13-0291 SF Demolish 12" Thick Reinforced Concrete Exterior Wall	18.93	
02 41 19 13-0292 Elevated Concrete Removal <small>(02 41 19 13)</small>		
02 41 19 13-0293 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced	11.44	
02 41 19 16 Selective Interior Demolition <small>(02 41 19)</small>		
<small>Note: Includes break-up of material, loading into truck or dumpster and clean-up.</small>		
02 41 19 16-0001 Floor Removal <small>(02 41 19 16)</small>		
02 41 19 16-0002 Scarify Concrete <small>(02 41 19 16-0001)</small>		
<small>Note: Up to 1/4" removal per pass.</small>		
02 41 19 16-0003 SF Scarify Concrete Floor	0.28	
02 41 19 16-0004 SF Scarify Concrete Tread And Riser	2.38	
02 41 19 16-0005 SF Scarify Concrete Wall	2.16	
02 41 19 16-0006 Fireproofing Removal <small>(02 41 19 16)</small>		
02 41 19 16-0007 SF Removal Of Fireproofing From Concrete Or Steel.....	1.12	
02 41 19 16-0008 Demolish Ceiling <small>(02 41 19 16)</small>		
02 41 19 16-0009 SF Demolish Drywall Ceiling	0.86	
02 41 19 16-0010 SF Demolish Furred Plastered Ceiling	2.02	
02 41 19 16-0011 SF Demolish Suspended Plastered Ceiling And Suspension System.....	1.55	
02 41 19 16-0012 Demolish Concrete Stair <small>(02 41 19 16)</small>		
02 41 19 16-0013 CF Demolish Interior Reinforced Concrete Stairs.....	7.28	
02 41 19 16-0014 CF Demolish Exterior Reinforced Concrete Stairs.....	6.22	
02 41 19 16-0015 Demolish Interior Partition/Wall <small>(02 41 19 16)</small>		
<small>Note: Price includes knock down, loading, clean-up.</small>		
02 41 19 16-0016 Demolish Masonry And Concrete Interior Partition/Walls <small>(02 41 19 16-0015)</small>		
<small>Note: Includes saw cutting, knock down, loading and clean-up.</small>		
02 41 19 16-0017 Demolish Concrete Block Interior Partition/Walls <small>(02 41 19 16-0016)</small>		
02 41 19 16-0018 SF Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	4.71	
02 41 19 16-0019 SF Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	5.03	
02 41 19 16-0020 SF Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	5.68	
02 41 19 16-0021 SF Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	7.29	
02 41 19 16-0022 SF Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall.....	9.11	
02 41 19 16-0023 SF Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall	5.66	
02 41 19 16-0024 SF Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall	6.04	
02 41 19 16-0025 SF Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall	6.81	
02 41 19 16-0026 SF Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall	8.75	
02 41 19 16-0027 SF Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall	10.93	
02 41 19 16-0028 Demolish Brick Interior Partition/Walls <small>(02 41 19 16-0016)</small>		

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 16-0029 SF Demolish 4" Thick Brick Interior Partition/Wall.....	4.71	
02 41 19 16-0030 SF Demolish 8" Thick Brick Interior Partition/Wall.....	5.68	
02 41 19 16-0031 SF Demolish 12" Thick Brick Interior Partition/Wall.....	7.28	
02 41 19 16-0032 SF Demolish 16" Thick Brick Interior Partition/Wall.....	9.11	
02 41 19 16-0033 Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0034 SF Demolish Glass Block Interior Partition/Walls.....	4.04	
02 41 19 16-0035 Demolish Concrete Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0036 SF Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall.....	8.57	
02 41 19 16-0037 SF Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall.....	10.71	
02 41 19 16-0038 SF Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall.....	15.00	
02 41 19 16-0039 SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall.....	10.29	
02 41 19 16-0040 SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall.....	12.95	
02 41 19 16-0041 SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall.....	18.01	
02 41 19 16-0042 Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)		
02 41 19 16-0043 SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster.....	1.62	
02 41 19 16-0044 Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015)		
Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0045 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side.....	2.86	
For Heights >14' To 20', Add	0.43	
For Heights >20', Add	0.57	
02 41 19 16-0046 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.33	
For Heights >14' To 20', Add	0.50	
For Heights >20', Add	0.67	
02 41 19 16-0047 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.65	
For Heights >14' To 20', Add	0.55	
For Heights >20', Add	0.73	
02 41 19 16-0048 SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.07	
For Heights >14' To 20', Add	0.76	
For Heights >20', Add	1.01	
02 41 19 16-0049 SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.51	
For Heights >14' To 20', Add	0.23	
For Heights >20', Add	0.30	
02 41 19 16-0050 SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.79	
For Heights >14' To 20', Add	0.27	
For Heights >20', Add	0.36	
02 42 Removal and Salvage of Construction Materials (02 40)		
02 42 21 Salvage of Construction Materials (02 42)		
Note: Includes placement on pallets and storage on site.		
02 42 21 35 Roofing Salvage (02 42 21)		
02 42 21 35-0001 Clay Tile Roof Remove And Salvage For Re-use (02 42 21 35)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 35-0002 SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	262.78	
02 42 21 47 Flooring Salvage (02 42 21)		
02 42 21 47-0001 Remove And Salvage For Re-Use (02 42 21 47)		
Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 42 21 47-0002 SF Removal Of Brick Flooring And Salvage.....	2.39	
02 42 21 47-0003 SF Removal Of Ceramic/Quarry Tile Floor And Salvage.....	2.39	
02 42 21 47-0004 SF Removal Of Terrazzo Flooring And Salvage.....	3.31	
02 42 21 47-0005 SF Removal Of Wood Strip Flooring And Salvage.....	1.93	
02 42 21 47-0006 SF Removal Of Wood Parquet Flooring And Salvage.....	1.02	
02 42 21 47-0007 SF Removal Of Resilient/Linoleum Flooring And Salvage.....	0.73	
02 60 Contaminated Site Material Removal (02)		
02 61 Removal and Disposal of Contaminated Soils (02 60)		
02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)		
Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		



Existing Conditions		02
Contaminated Site Material Removal		02 60
Removal and Disposal of Contaminated Soils		02 61

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 61 26 00-0001	Removal and Disposal of Asbestos Contaminated Soils <small>(02 61 26)</small>	
	Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.	
02 61 26 00-0002	EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	887.49 266.25
02 61 26 00-0003	CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	58.83 17.65
02 61 26 00-0004	CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	39.22 11.77
02 61 26 00-0005	CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	29.45 8.84
02 61 26 00-0006	CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	23.53 7.06
02 61 26 00-0007	CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	20.00 6.00
02 61 26 00-0008	CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	18.00 5.40

02 80 Facility Remediation (02)02 81 Transportation and Disposal of Hazardous Materials (02 80)

02 81 00 00-0001	Equipment Oil Drain And Disposal <small>(02 81)</small>	
02 81 00 00-0002	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site..... Note: Excludes Disposal Cost.	528.64
02 81 00 00-0003	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum..... Note: Excludes draining, placing in approved container, and transporting to disposal site.	83.07
02 81 00 00-0004	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum..... Note: Excludes draining, placing in approved container, and transporting to disposal site.	377.60
02 81 00 00-0005	DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum..... Note: Excludes draining, placing in approved container, and transporting to disposal site.	679.68
02 81 00 00-0006	CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	90.48

02 82 Asbestos Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001	Air Monitoring And Bulk Sampling, Asbestos Testing <small>(02 82 13)</small>	
	Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.	
02 82 13 00-0002	HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	70.80
02 82 13 00-0003	EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	49.08
02 82 13 00-0004	EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	57.54
02 82 13 00-0005	EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	91.40
02 82 13 00-0006	EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	157.40
02 82 13 00-0007	EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	191.25
02 82 13 00-0008	EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	38.93
02 82 13 00-0009	EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	47.39
02 82 13 00-0010	EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	64.32
02 82 13 00-0011	EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	49.08
02 82 13 00-0012	EA Next Day Turnaround, (Air Point Counting) PLM Test	57.54
02 82 13 00-0013	EA Same Day Turnaround, (Air Point Counting) PLM Test	91.40
02 82 13 00-0014	EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	157.40
02 82 13 00-0015	EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	181.10
02 82 13 00-0016	EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	252.18

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)

02 82 16 00-0001	Asbestos Encapsulation (Lock-Down) <small>(02 82 16)</small>	
02 82 16 00-0002	SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.43
02 82 16 00-0003	SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.93
02 82 16 00-0004	SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.07
02 82 16 00-0005	SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.27
02 82 16 00-0006	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	6.90
02 82 16 00-0007	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	7.79

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)**

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects.

02 82 33 00-0001	Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0002	Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001) Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.	
02 82 33 00-0003	Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.	
02 82 33 00-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	930.18
	<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	32.38
	<i>For Work In Restricted Working Space, Add</i>	9.08
02 82 33 00-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	24.82
	<i>For Work In Restricted Working Space, Add</i>	6.81
02 82 33 00-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.15
	<i>For Work In Restricted Working Space, Add</i>	5.11
02 82 33 00-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	14.89
	<i>For Work In Restricted Working Space, Add</i>	3.83
02 82 33 00-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	13.23
	<i>For Work In Restricted Working Space, Add</i>	3.33
02 82 33 00-0010	>6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0017 for projects with less than 10 LF.	
02 82 33 00-0011	SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	972.87
	<i>For Work In Restricted Working Space, Add</i>	266.25
02 82 33 00-0012	LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	39.07
	<i>For Work In Restricted Working Space, Add</i>	10.44
02 82 33 00-0013	LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.36
	<i>For Work In Restricted Working Space, Add</i>	7.83
02 82 33 00-0014	LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	23.84
	<i>For Work In Restricted Working Space, Add</i>	5.87
02 82 33 00-0015	LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.94
	<i>For Work In Restricted Working Space, Add</i>	4.40
02 82 33 00-0016	LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.04
	<i>For Work In Restricted Working Space, Add</i>	3.83
02 82 33 00-0017	Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.	
02 82 33 00-0018	SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....	579.17
	<i>For Work In Restricted Working Space, Add</i>	169.91
02 82 33 00-0019	LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....	98.66
	<i>For Work In Restricted Working Space, Add</i>	28.32
02 82 33 00-0020	LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....	40.92
	<i>For Work In Restricted Working Space, Add</i>	11.00
02 82 33 00-0021	LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....	31.74
	<i>For Work In Restricted Working Space, Add</i>	8.24
02 82 33 00-0022	LF >500 LF Additional Glove Bag Work for Pipe Insulation.....	24.88
	<i>For Work In Restricted Working Space, Add</i>	6.18
02 82 33 00-0023	Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0024	Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023) Note: e.g., duct, boiler, tank, etc.	
02 82 33 00-0025	SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	914.17
02 82 33 00-0026	SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	31.32
02 82 33 00-0027	SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	24.89
02 82 33 00-0028	SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	18.94
02 82 33 00-0029	SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	14.47
02 82 33 00-0030	Surfacing Material, Asbestos Abatement And Disposal (02 82 33)	
02 82 33 00-0031	Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0030) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0033 for areas > 1 SF see CSI section.	
02 82 33 00-0032	EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	148.99
	Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	



Existing Conditions	02	02
Facility Remediation	02 80	
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0033 Fireproofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
<i>Note: Exposed surface area, includes associated overspray.</i>		
02 82 33 00-0034 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	914.17	
02 82 33 00-0035 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal	37.37	
02 82 33 00-0036 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal	28.28	
02 82 33 00-0037 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal	21.48	
02 82 33 00-0038 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal	16.38	
02 82 33 00-0039 Acoustical Plaster, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
<i>Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.</i>		
02 82 33 00-0040 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	905.28	
02 82 33 00-0041 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	15.87	
02 82 33 00-0042 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	12.17	
02 82 33 00-0043 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	9.22	
02 82 33 00-0044 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	7.00	
02 82 33 00-0045 Gypsum Wall Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
02 82 33 00-0046 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	923.07	
<i>For Additional Layer, Add</i>	<i>244.06</i>	
02 82 33 00-0047 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	12.35	
<i>For Additional Layer, Add</i>	<i>3.20</i>	
02 82 33 00-0048 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.22	
<i>For Additional Layer, Add</i>	<i>2.34</i>	
02 82 33 00-0049 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.37	
<i>For Additional Layer, Add</i>	<i>1.83</i>	
02 82 33 00-0050 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	5.89	
<i>For Additional Layer, Add</i>	<i>1.42</i>	
02 82 33 00-0051 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.78	
<i>For Additional Layer, Add</i>	<i>1.12</i>	
02 82 33 00-0052 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	3.97	
<i>For Additional Layer, Add</i>	<i>0.90</i>	
02 82 33 00-0053 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
02 82 33 00-0054 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	905.28	
02 82 33 00-0055 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	22.83	
02 82 33 00-0056 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	16.90	
02 82 33 00-0057 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.36	
02 82 33 00-0058 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.55	
02 82 33 00-0059 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	7.74	
02 82 33 00-0060 Stucco, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
02 82 33 00-0061 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0062 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	26.43	
02 82 33 00-0063 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	20.00	
02 82 33 00-0064 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	15.18	
02 82 33 00-0065 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	11.56	
02 82 33 00-0066 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
02 82 33 00-0067 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	923.07	
02 82 33 00-0068 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	10.57	
02 82 33 00-0069 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	8.81	
02 82 33 00-0070 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	6.26	
02 82 33 00-0071 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	4.86	
02 82 33 00-0072 Plywood, Asbestos Abatement And Disposal <small>(02 82 33 00-0030)</small>		
02 82 33 00-0073 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	915.96	
02 82 33 00-0074 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.28	
02 82 33 00-0075 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.76	
02 82 33 00-0076 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.80	
02 82 33 00-0077 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal	4.19	
02 82 33 00-0078 Flooring Material, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0079 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal <small>(02 82 33 00-0078)</small>		

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0080 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0079) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0081 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0082 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0083 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.63	
For Each Additional Layer, Add	1.41	
02 82 33 00-0084 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.59	
For Each Additional Layer, Add	1.15	
02 82 33 00-0085 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	3.33	
For Each Additional Layer, Add	0.83	
02 82 33 00-0086 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0079) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0087 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	894.61	
For Each Additional Layer, Add	223.65	
02 82 33 00-0088 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.76	
For Each Additional Layer, Add	1.69	
02 82 33 00-0089 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.65	
For Each Additional Layer, Add	1.41	
02 82 33 00-0090 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.17	
For Each Additional Layer, Add	1.29	
02 82 33 00-0091 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	4.27	
For Each Additional Layer, Add	1.07	
02 82 33 00-0092 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0079)		
02 82 33 00-0093 SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal	894.61	
02 82 33 00-0094 SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.35	
02 82 33 00-0095 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0096 SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0097 SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.69	
02 82 33 00-0098 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0079) Note: Up to 12".		
02 82 33 00-0099 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	304.72	
02 82 33 00-0100 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.31	
02 82 33 00-0101 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.72	
02 82 33 00-0102 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.84	
02 82 33 00-0103 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.40	
02 82 33 00-0104 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0078) Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0105 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal	905.29	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0106 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.39	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0107 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	1.80	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0108 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.43	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0109 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal	1.18	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0110 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0078) Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0111 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	958.65	
02 82 33 00-0112 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.70	
02 82 33 00-0113 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.82	
02 82 33 00-0114 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.70	
02 82 33 00-0115 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.82	
02 82 33 00-0116 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0078)		
02 82 33 00-0117 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	923.05	
02 82 33 00-0118 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.28	



Existing Conditions	02
Facility Remediation	02 80
Asbestos Remediation	02 82

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0119 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.54	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0120 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0121 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.68	
02 82 33 00-0122 Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0123 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0122)		
Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0124 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0123)		
02 82 33 00-0125 SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	976.44	
02 82 33 00-0126 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.38	
02 82 33 00-0127 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.25	
02 82 33 00-0128 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.34	
02 82 33 00-0129 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.43	
02 82 33 00-0130 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.75	
02 82 33 00-0131 >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0123)		
02 82 33 00-0132 SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,044.02	
02 82 33 00-0133 SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88	
02 82 33 00-0134 SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.57	
02 82 33 00-0135 SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.56	
02 82 33 00-0136 SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.53	
02 82 33 00-0137 SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.74	
02 82 33 00-0138 >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0123)		
02 82 33 00-0139 SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1,122.28	
02 82 33 00-0140 SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.30	
02 82 33 00-0141 SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.85	
02 82 33 00-0142 SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.73	
02 82 33 00-0143 SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.58	
02 82 33 00-0144 SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	4.71	
02 82 33 00-0145 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0122)		
02 82 33 00-0146 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0145)		
02 82 33 00-0147 SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	909.72	
Note: Single or first of multiple layers.		
02 82 33 00-0148 SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	5.85	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.46	
02 82 33 00-0149 SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.72	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.18	
02 82 33 00-0150 SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.81	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.95	
02 82 33 00-0151 SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.90	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.73	
02 82 33 00-0152 SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.22	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.56	
02 82 33 00-0153 Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0122)		
02 82 33 00-0154 SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	297.61	
02 82 33 00-0155 SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.40	
02 82 33 00-0156 SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.00	
02 82 33 00-0157 SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.64	
02 82 33 00-0158 SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.24	
02 82 33 00-0159 Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0122)		
02 82 33 00-0160 SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	297.61	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0161	LF		>10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.84	
02 82 33 00-0162	LF		>20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.50	
02 82 33 00-0163	LF		>50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.62	
02 82 33 00-0164	LF		>150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0165			Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0166			Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0165)		
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0167	SET		Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	923.05	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0168	SF		>100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	6.41	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0169	SF		>500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.39	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0170	SF		>2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.78	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0171	SF		>10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.46	
			Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0172			Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0165)		
02 82 33 00-0173	SET		Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	923.05	
02 82 33 00-0174	SF		>100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.61	
02 82 33 00-0175	SF		>500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.05	
02 82 33 00-0176	SF		>2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.51	
02 82 33 00-0177	SF		>10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.23	
02 82 33 00-0178			Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0165)		
02 82 33 00-0179	SET		Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	782.27	
02 82 33 00-0180	LF		>10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	34.52	
02 82 33 00-0181	LF		>100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	26.96	
02 82 33 00-0182	LF		>250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	21.29	
02 82 33 00-0183	LF		>500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	17.03	
02 82 33 00-0184	LF		>2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	13.85	
02 82 33 00-0185	LF		>10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	13.62	
02 82 33 00-0186			Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0165)		
02 82 33 00-0187	SET		Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	947.79	
			Note: Single or first of multiple layers.		
02 82 33 00-0188	SF		>125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	5.09	
			Note: Single or first of multiple layers.		
02 82 33 00-0189	SF		>1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.14	
			Note: Single or first of multiple layers.		
02 82 33 00-0190	SF		>5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.39	
			Note: Single or first of multiple layers.		
02 82 33 00-0191	SF		>10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.63	
			Note: Single or first of multiple layers.		
02 82 33 00-0192	SF		>20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.07	
			Note: Single or first of multiple layers.		
02 82 33 00-0193			Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0194			Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0193)		
02 82 33 00-0195	SET		Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	634.35	
			For Work In Restricted Working Space, Add	177.50	
02 82 33 00-0196	CF		>10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	63.10	
			For Work In Restricted Working Space, Add	17.65	
02 82 33 00-0197	CF		>100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	43.49	
			For Work In Restricted Working Space, Add	11.77	
02 82 33 00-0198	CF		>250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	33.72	
			For Work In Restricted Working Space, Add	8.84	
02 82 33 00-0199	CF		>500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	27.80	
			For Work In Restricted Working Space, Add	7.06	
02 82 33 00-0200	CF		>2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	24.27	
			For Work In Restricted Working Space, Add	6.00	
02 82 33 00-0201	CF		>10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	22.27	
			For Work In Restricted Working Space, Add	5.40	
02 82 33 00-0202			Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0193)		
02 82 33 00-0203	SET		Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	673.62	
02 82 33 00-0204	EA		>4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	73.44	
02 82 33 00-0205	EA		>40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	55.79	
02 82 33 00-0206	EA		>60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	47.00	



Existing Conditions	02	02
Facility Remediation	02 80	
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0207 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	41.67	
02 82 33 00-0208 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	38.49	
02 82 33 00-0209 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	36.68	
02 82 33 00-0210 Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
02 82 33 00-0211 30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
02 82 33 00-0212 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	315.04	
02 82 33 00-0213 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	125.71	
02 82 33 00-0214 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	115.06	
02 82 33 00-0215 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
02 82 33 00-0216 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	296.72	
02 82 33 00-0217 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	6.14	
02 82 33 00-0218 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.63	
02 82 33 00-0219 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.99	
02 82 33 00-0220 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.45	
02 82 33 00-0221 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.97	
02 82 33 00-0222 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.57	
02 82 33 00-0223 Grout, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
Note: e.g. flue grout.		
02 82 33 00-0224 SET Up To 10 LF, Grout, Asbestos Abatement And Disposal	296.42	
02 82 33 00-0225 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal	11.70	
02 82 33 00-0226 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal	8.07	
02 82 33 00-0227 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal	6.93	
02 82 33 00-0228 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	5.96	
02 82 33 00-0229 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	5.14	
02 82 33 00-0230 LF >2,500 LF, Grout, Asbestos Abatement And Disposal	4.41	
02 82 33 00-0231 Gaskets, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0232 SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	296.72	
02 82 33 00-0233 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	15.78	
02 82 33 00-0234 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	11.85	
02 82 33 00-0235 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	10.12	
02 82 33 00-0236 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	9.11	
02 82 33 00-0237 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.19	
02 82 33 00-0238 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal	7.80	
02 82 33 00-0239 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
Note: e.g. grid, spline, or glued on.		
02 82 33 00-0240 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal	609.44	
Note: Including Glue Removal		
02 82 33 00-0241 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	12.93	
Note: Including Glue Removal		
02 82 33 00-0242 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal	6.41	
Note: Including Glue Removal		
02 82 33 00-0243 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	4.45	
Note: Including Glue Removal		
02 82 33 00-0244 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	3.84	
Note: Including Glue Removal		
02 82 33 00-0245 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0246 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	601.26	
02 82 33 00-0247 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	12.93	
02 82 33 00-0248 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.41	
02 82 33 00-0249 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.45	
02 82 33 00-0250 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	3.84	
02 82 33 00-0251 Caulking, Asbestos Abatement And Disposal <small>(02 82 33 00-0210)</small>		
02 82 33 00-0252 Non Friable Caulking, Asbestos Abatement And Disposal <small>(02 82 33 00-0251)</small>		
02 82 33 00-0253 SET Up To 10 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	296.42	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0254 LF >10 To 50 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	8.78	
02 82 33 00-0255 LF >50 To 100 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	6.22	
02 82 33 00-0256 LF >100 To 250 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	4.64	
02 82 33 00-0257 LF >250 To 1,000 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	3.50	
02 82 33 00-0258 LF >1,000 To 2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.78	
02 82 33 00-0259 LF >2,500 LF, Non Friable Asbestos Or Polychlorinated Biphenyl (PCB) Contaminated Caulking, Asbestos Abatement And Disposal	2.42	
02 82 33 00-0260 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0210)		
02 82 33 00-0261 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	296.42	
02 82 33 00-0262 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	11.70	
02 82 33 00-0263 LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	8.07	
02 82 33 00-0264 LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	6.93	
02 82 33 00-0265 LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.96	
02 82 33 00-0266 LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.14	
02 83 Lead Remediation (02 80)		
See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.		
02 83 19 Lead-Based Paint Remediation (02 83)		
02 83 19 13 Lead-Based Paint Abatement (02 83 19)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site.		
02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)		
Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.		
02 83 19 13-0002 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	80.68	
02 83 19 13-0003 EA X-Ray Fluorescence (XRF) Lead Testing	58.34	
Note: Including Technician, 3 Readings Per Surface And Lab Fee		
02 83 19 13-0004 EA 5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	55.85	
02 83 19 13-0005 EA 48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	84.62	
02 83 19 13-0006 EA 24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	118.48	
02 83 19 13-0007 EA 5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	22.00	
02 83 19 13-0008 EA 24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	33.85	
02 83 19 13-0009 EA 8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	42.31	
02 83 19 13-0010 EA 5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	55.85	
02 83 19 13-0011 EA 3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee.....	84.62	
02 83 19 13-0012 EA 5 Day Turnaround Lead Wipe Samples And Lab Fee.....	9.31	
02 83 19 13-0013 EA 24 Hour Turnaround Lead Wipe Samples And Lab Fee	12.69	
02 83 19 13-0014 EA 8 Hour Turnaround Lead Wipe Samples And Lab Fee.....	18.62	
02 83 19 13-0015 EA 5 Day Turnaround Lead Air Samples And Lab Fee	9.31	
02 83 19 13-0016 EA 24 Hour Turnaround Lead Air Samples And Lab Fee	12.69	
02 83 19 13-0017 EA 8 Hour Turnaround Lead Air Samples And Lab Fee	18.62	
02 83 19 13-0018 EA 5 Day Turnaround Lead Water Test and Lab Fee.....	33.85	
02 83 19 13-0019 EA 24 Hour Turnaround Lead Water Test and Lab Fee	50.78	
02 83 19 13-0020 EA 8 Hour Turnaround Lead Water Test and Lab Fee	67.70	
02 83 19 13-0021 EA 5 Day Turnaround Lead Paint Chip Test and Lab Fee.....	35.01	
02 83 19 13-0022 EA 5 Day Turnaround Lead Soil Test and Lab Fee	70.01	
02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)		
02 83 19 13-0024 EA Lead-Based Paint Remediation Minimum Show Up Charge.....	1,051.97	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		
02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)		
Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0026 SF Balustrades, Chemical Stripping Of Lead Contaminated Material	30.82	
For 0.025" (25 mil) Application, Add		1.73
For 0.03" (30 mil) Application, Add		2.71
02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	45.76	
For 0.025" (25 mil) Application, Add		2.48
For 0.03" (30 mil) Application, Add		3.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0028 LF Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	13.22 0.77 1.23 6.67	
02 83 19 13-0029 LF >6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	27.06 1.47 2.27 10.13	
02 83 19 13-0030 SF Cornice, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	14.34 0.91 1.48	
02 83 19 13-0031 SF Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	40.79 2.23 3.46	
02 83 19 13-0032 SF Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	8.82 0.59 0.98 6.71	
02 83 19 13-0033 SF Cabinets, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	25.77 1.44 2.25	
02 83 19 13-0034 SF Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	32.86 1.79 2.78	
02 83 19 13-0035 SF Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	12.19 0.76 1.23	
02 83 19 13-0036 SF Columns, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	11.70 0.77 1.28 8.57	
02 83 19 13-0037 SF Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	10.31 0.67 1.09	
02 83 19 13-0038 SF Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	10.76 0.69 1.13	
02 83 19 13-0039 SF Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	18.72 1.12 1.80	
02 83 19 13-0040 EA Electrical Devices, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	53.63 2.98 4.66	
02 83 19 13-0041 LF Door Frames, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	13.26 0.81 1.31	
02 83 19 13-0042 SF Wood Floors, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	7.25 0.51 0.86	
02 83 19 13-0043 SF HVAC Grilles, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	27.55 1.53 2.39	
02 83 19 13-0044 SF HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	32.86 1.79 2.78	
02 83 19 13-0045 EA Hinges, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i>	17.19 1.09 1.77	
02 83 19 13-0046 EA Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	21.20 1.29 2.07 12.08	
02 83 19 13-0047 LF Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	5.89 0.41 0.68 4.83	
02 83 19 13-0048 LF >2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	9.49 0.59 0.95 5.73	
02 83 19 13-0049 LF >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	17.00 1.04 1.67 9.89	
02 83 19 13-0050 LF >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	23.31 1.39 2.23 12.61	
02 83 19 13-0051 LF >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material..... <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	41.83 2.43 3.86 20.60	
02 83 19 13-0052 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area <i>For 0.025" (25 mil) Application, Add</i> <i>For 0.03" (30 mil) Application, Add</i> <i>For 0.125" (125 mil) Application, Add</i>	12.51 0.71 1.11 5.53	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0053	EA		Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material.....	249.00	
			For 0.025" (25 mil) Application, Add	13.54	
			For 0.03" (30 mil) Application, Add	20.99	
02 83 19 13-0054	SF		Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	17.25	
			For 0.025" (25 mil) Application, Add	1.29	
			For 0.03" (30 mil) Application, Add	2.19	
02 83 19 13-0055	SF		Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	18.90	
			For 0.025" (25 mil) Application, Add	1.37	
			For 0.03" (30 mil) Application, Add	2.32	
02 83 19 13-0056	SF		Siding, Chemical Stripping Of Lead Contaminated Material.....	9.87	
			For 0.025" (25 mil) Application, Add	0.68	
			For 0.03" (30 mil) Application, Add	1.14	
			For 0.125" (125 mil) Application, Add	8.11	
02 83 19 13-0057	SF		Soffit, Chemical Stripping Of Lead Contaminated Material.....	20.82	
			For 0.025" (25 mil) Application, Add	1.19	
			For 0.03" (30 mil) Application, Add	1.88	
			For 0.125" (125 mil) Application, Add	9.71	
02 83 19 13-0058	SF		Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....	9.53	
			For 0.025" (25 mil) Application, Add	0.63	
			For 0.03" (30 mil) Application, Add	1.03	
			For 0.125" (125 mil) Application, Add	6.88	
02 83 19 13-0059	SF		Corrugated Steel, Chemical Stripping Of Lead Contaminated Material.....	10.83	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.21	
02 83 19 13-0060	SF		Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0061	SF		Steel Trusses, Chemical Stripping Of Lead Contaminated Material.....	15.35	
			For 0.025" (25 mil) Application, Add	0.92	
			For 0.03" (30 mil) Application, Add	1.47	
			For 0.125" (125 mil) Application, Add	8.34	
02 83 19 13-0062	SF		Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....	10.80	
			For 0.025" (25 mil) Application, Add	0.69	
			For 0.03" (30 mil) Application, Add	1.13	
			For 0.125" (125 mil) Application, Add	7.20	
02 83 19 13-0063	SF		Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....	25.01	
			For 0.025" (25 mil) Application, Add	1.40	
			For 0.03" (30 mil) Application, Add	2.19	
02 83 19 13-0064	SF		Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material.....	27.38	
			For 0.025" (25 mil) Application, Add	1.52	
			For 0.03" (30 mil) Application, Add	2.37	
02 83 19 13-0065	SF		Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material.....	28.98	
			For 0.025" (25 mil) Application, Add	1.60	
			For 0.03" (30 mil) Application, Add	2.49	
02 83 19 13-0066	SF		Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material.....	30.59	
			For 0.025" (25 mil) Application, Add	1.68	
			For 0.03" (30 mil) Application, Add	2.61	
02 83 19 13-0067	SF		Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material.....	32.20	
			For 0.025" (25 mil) Application, Add	1.76	
			For 0.03" (30 mil) Application, Add	2.73	
02 83 19 13-0068	SF		Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material.....	33.86	
			For 0.025" (25 mil) Application, Add	1.84	
			For 0.03" (30 mil) Application, Add	2.86	
02 83 19 13-0069	SF		Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material.....	35.42	
			For 0.025" (25 mil) Application, Add	1.92	
			For 0.03" (30 mil) Application, Add	2.98	
02 83 19 13-0070	SF		Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material.....	36.22	
			For 0.025" (25 mil) Application, Add	1.96	
			For 0.03" (30 mil) Application, Add	3.04	
02 83 19 13-0071	SF		Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material.....	37.05	
			For 0.025" (25 mil) Application, Add	2.00	
			For 0.03" (30 mil) Application, Add	3.10	
02 83 19 13-0072	SF		Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material.....	37.82	
			For 0.025" (25 mil) Application, Add	2.04	
			For 0.03" (30 mil) Application, Add	3.16	
02 83 19 13-0073	SF		Metal Stairs, Chemical Stripping Of Lead Contaminated Material.....	49.92	
			For 0.025" (25 mil) Application, Add	2.80	
			For 0.03" (30 mil) Application, Add	4.38	
			For 0.125" (125 mil) Application, Add	21.48	
02 83 19 13-0074	LF		Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	8.63	
			For 0.025" (25 mil) Application, Add	0.54	
			For 0.03" (30 mil) Application, Add	0.89	
			For 0.125" (125 mil) Application, Add	5.52	
02 83 19 13-0075	SF		Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material.....	25.34	
			Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
			For 0.025" (25 mil) Application, Add	1.49	
			For 0.03" (30 mil) Application, Add	2.38	
			For 0.125" (125 mil) Application, Add	13.12	
02 83 19 13-0076	SF		Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	27.74	
			For 0.025" (25 mil) Application, Add	1.58	
			For 0.03" (30 mil) Application, Add	2.48	
			For 0.125" (125 mil) Application, Add	12.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 83 19 13-0077

Demolish Lead Contaminated Material (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0078	SF	Demolish Ceiling Suspension System, Lead Contaminated Material	2.20
02 83 19 13-0079	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.28
02 83 19 13-0080	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.82
02 83 19 13-0081	SF	Demolish Metal Pan Grid System, Lead Contaminated Material	1.27
02 83 19 13-0082	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	61.43
02 83 19 13-0083	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	81.49
02 83 19 13-0084	SF	Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.10
02 83 19 13-0085	SF	Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.09
02 83 19 13-0086	SF	Demolish Brick, Lead Contaminated Material	3.83
02 83 19 13-0087	SF	Demolish Concrete Block, Lead Contaminated Material	4.94
02 83 19 13-0088	SF	Demolish Tile, Lead Contaminated Material	3.73
02 83 19 13-0089	SF	Demolish Up To 6" Concrete, Lead Contaminated Material	5.59
02 83 19 13-0090	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.35
02 83 19 13-0091	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	5.78
02 83 19 13-0092	LF	Demolish Wood Balustrades And Railings, Lead Contaminated Material	6.37
02 83 19 13-0093	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material	1.66
02 83 19 13-0094	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material	2.08
02 83 19 13-0095	LF	Demolish Base Shoe Molding, Lead Contaminated Material	1.35
02 83 19 13-0096	SF	Demolish Concrete, Lead Contaminated Material	12.67
02 83 19 13-0097	LF	Demolish Cabinets, Lead Contaminated Material	29.52
02 83 19 13-0098	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material	1.67
02 83 19 13-0099	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material	16.35
02 83 19 13-0100	SF	Demolish Cornice, Lead Contaminated Material	2.17
02 83 19 13-0101	EA	Demolish Doors, Lead Contaminated Material	64.03
02 83 19 13-0102	LF	Demolish Door And Window Trim Or Frames, Lead Contaminated Material	1.95
02 83 19 13-0103	EA	Demolish Electrical Devices, Lead Contaminated Material	19.65
02 83 19 13-0104	LF	Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material	2.52
02 83 19 13-0105	LF	Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	4.19
02 83 19 13-0106	SF	Demolish Wood Floors, Lead Contaminated Material	3.02
02 83 19 13-0107	SF	Demolish Grilles, Lead Contaminated Material	3.56
02 83 19 13-0108	EA	Demolish Hinges, Lead Contaminated Material	7.14
02 83 19 13-0109	EA	Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	15.35
02 83 19 13-0110	LF	Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	6.29
02 83 19 13-0111	LF	Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	9.18
02 83 19 13-0112	LF	Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	13.88
02 83 19 13-0113	LF	Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	25.59
02 83 19 13-0114	EA	Demolish Radiators, Lead Contaminated Material	110.52
02 83 19 13-0115	EA	Demolish Shutters, Lead Contaminated Material	43.07
02 83 19 13-0116	SF	Demolish Siding, Lead Contaminated Material	1.71
02 83 19 13-0117	SF	Demolish Soffit, Lead Contaminated Material	1.45
02 83 19 13-0118	SF	Demolish Flat Steel Surfaces, Lead Contaminated Material	3.98
02 83 19 13-0119	SF	Demolish Steel Beams, Lead Contaminated Material	4.69
02 83 19 13-0120	SF	Demolish Trusses, Lead Contaminated Material	6.15
02 83 19 13-0121	SF	Demolish Walls, Wood, Lead Contaminated Material	4.54
02 83 19 13-0122	SF	Demolish Windows, Lead Contaminated Material	15.29
02 83 19 13-0123	SF	Demolish Metal Stair, Lead Contaminated Material	7.32
02 83 19 13-0124	LF	Demolish Single Metal Hand Rail, Lead Contaminated Material	5.38
02 83 19 13-0125	LF	Demolish Metal Railing And Posts, Lead Contaminated Material	8.78
02 83 19 13-0126	SF	Demolish Metal Picket Fence, Lead Contaminated Material	2.42
02 83 19 13-0127	SF	Demolish Plywood, Lead Contaminated Material	6.61
02 83 19 13-0128	SF	Demolish Planks (Various Sizes), Lead Contaminated Material	3.23
02 83 19 13-0129	EA	Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	20.17
02 83 19 13-0130	SF	Demolish Ceramic Tile Block, Lead Contaminated Material	4.40
02 83 19 13-0131	LF	Demolish Metal Guard Rails, Lead Contaminated Material	12.11
02 83 19 13-0132	SF	Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	6.45
02 83 19 13-0133	SF	Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	4.64
02 83 19 13-0134	SF	Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.63
02 83 19 13-0135	SF	Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	2.83
02 83 19 13-0136	SF	Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	20.17
02 83 19 13-0137	SF	Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	14.34
02 83 19 13-0138	SF	Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	10.76
02 83 19 13-0139	SF	Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	8.07

02 83 19 13-0140

Wet Sanding Of Lead Contaminated Material (02 83 19 13)

02 83 19 13-0141	SF	Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint	1.75
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02 83 19 13-0142

Lead Abatement Encapsulation (02 83 19 13)

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0143	SF	Balustrades, Lead Abatement Encapsulation	5.54
02 83 19 13-0144	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	6.42
02 83 19 13-0145	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	8.64
02 83 19 13-0146	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	3.55
02 83 19 13-0147	SF	Ornate Cabinets, Lead Abatement Encapsulation	8.03
02 83 19 13-0148	SF	Simple Design Cabinets, Lead Abatement Encapsulation	6.53

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0149	SF		Drywall Ceilings, Lead Abatement Encapsulation.....	2.21	
02 83 19 13-0150	SF		Wood Ceilings, Lead Abatement Encapsulation.....	2.70	
02 83 19 13-0151	SF		Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation.....	2.50	
02 83 19 13-0152	SF		Columns, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0153	SF		Doors, Lead Abatement Encapsulation.....	9.44	
02 83 19 13-0154	LF		Up To 2" Electrical Conduit, Lead Abatement Encapsulation.....	3.63	
02 83 19 13-0155	SF		Picket Fence (Brush), Lead Abatement Encapsulation.....	2.55	
02 83 19 13-0156	SF		Wood Floors (Roller), Lead Abatement Encapsulation.....	2.13	
02 83 19 13-0157	SF		Grilles, Vents, Lead Abatement Encapsulation.....	5.98	
02 83 19 13-0158	LF		Gutters And Downspouts, Lead Abatement Encapsulation.....	5.54	
02 83 19 13-0159	EA		Hangers, Lead Abatement Encapsulation.....	47.41	
02 83 19 13-0160	LF		Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	3.36	
02 83 19 13-0161	LF		>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	4.82	
02 83 19 13-0162	LF		>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	7.46	
02 83 19 13-0163	LF		>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation.....	11.02	
02 83 19 13-0164	EA		Radiators, Lead Abatement Encapsulation.....	202.26	
02 83 19 13-0165	EA		Up To 6' Shutters, Lead Abatement Encapsulation.....	174.79	
02 83 19 13-0166	SF		Siding, Lead Abatement Encapsulation.....	3.05	
02 83 19 13-0167	SF		Up To 12" Soffit, Lead Abatement Encapsulation.....	4.30	
02 83 19 13-0168	SF		Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation.....	3.55	
02 83 19 13-0169	SF		Steel Beams And Metal Decks, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0170	SF		Trusses, Lead Abatement Encapsulation.....	4.65	
02 83 19 13-0171	SF		Drywall Walls, Lead Abatement Encapsulation.....	1.97	
02 83 19 13-0172	SF		Wood Walls, Lead Abatement Encapsulation.....	2.42	
02 83 19 13-0173	EA		Window Without Grille, Lead Abatement Encapsulation.....	174.99	
02 83 19 13-0174	EA		Window With Grille, Lead Abatement Encapsulation.....	205.62	
02 83 19 13-0175	LF		Frames And Trim, Lead Abatement Encapsulation.....	3.18	
02 83 19 13-0176	LF		Steel Lintels, Lead Abatement Encapsulation.....	3.64	

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)****02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.26	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate.....	0.26	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting.....	1.27	

02 84 Polychlorinated Biphenyl Remediation (02 80)**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)****02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)**

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002	EA		Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	10.96	
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02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.41	
02 84 16 00-0005	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.12	
02 84 16 00-0006	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	6.59	
02 84 16 00-0007	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	15.06	

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	3.53	
02 84 16 00-0010	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	5.29	
02 84 16 00-0011	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	9.88	
02 84 16 00-0012	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	22.58	

02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)**02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers (02 84 33)**

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

02 84 33 00-0002	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Non Polychlorinated Biphenyl (PCB).....	2,385.10	
				Note: Includes disposal costs.	
02 84 33 00-0003	EA		Removal And Disposal Of Transformers 20 KVA, Non Polychlorinated Biphenyl (PCB).....	3,691.08	
				Note: Includes disposal costs.	
02 84 33 00-0004	EA		Removal And Disposal Of Switch, Non Polychlorinated Biphenyl (PCB).....	1,155.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 84 33 00-0005 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB)..... Note: Includes disposal costs.	4,301.31	
02 84 33 00-0006 EA Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB)	1,950.97	
02 84 33 00-0007 EA Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB)..... Note: Includes disposal costs.	6,694.44	

02 87 Bio-Hazard Material Remediation (02 80)

02 87 13 Mold Remediation (02 87)

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)

02 87 13 33-0001 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)
Note: Treat fittings as additional lf of insulation.

02 87 13 33-0002 Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)
Note: Diameter is outer size of insulation.

02 87 13 33-0003 Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)
Note: Excludes encased fittings.

02 87 13 33-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	613.00
02 87 13 33-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.95
02 87 13 33-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.22
02 87 13 33-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.94
02 87 13 33-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	10.72
02 87 13 33-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	9.47

02 87 13 33-0010 >6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)

02 87 13 33-0011 SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	677.04
02 87 13 33-0012 LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	30.58
02 87 13 33-0013 LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.00
02 87 13 33-0014 LF >500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	19.07
02 87 13 33-0015 LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.37
02 87 13 33-0016 LF >10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.92

02 87 13 33-0017 Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)

02 87 13 33-0018 Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)

02 87 13 33-0019 SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	645.02
02 87 13 33-0020 SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.22
02 87 13 33-0021 SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	10.93
02 87 13 33-0022 SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	8.46
02 87 13 33-0023 SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	6.73

02 87 13 33-0024 Surfacing Material, Mold Abatement And Disposal (02 87 13 33)

Note: e.g. fireproofing, acoustical plaster, etc.

02 87 13 33-0025 Stucco, Mold Abatement And Disposal (02 87 13 33-0024)

Note: Remove surface coat from brown coat or remove entire assembly, including lath.

02 87 13 33-0026 SET Up To 50 SF, Stucco, Mold Abatement And Disposal	627.24
02 87 13 33-0027 SF >50 To 500 SF, Stucco, Mold Abatement And Disposal	13.86
02 87 13 33-0028 SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal	10.57
02 87 13 33-0029 SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	8.10
02 87 13 33-0030 SF >10,000 SF, Stucco, Mold Abatement And Disposal	6.27

02 87 13 33-0031 Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)

Note: Remove surface coat from brown coat or remove entire assembly, including lath.

02 87 13 33-0032 SET Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	627.24
02 87 13 33-0033 SF >50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal.....	13.86
02 87 13 33-0034 SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal.....	10.57
02 87 13 33-0035 SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	8.10
02 87 13 33-0036 SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	6.27

02 87 13 33-0037 Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)

02 87 13 33-0038 SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal.....	662.82
02 87 13 33-0039 SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal.....	4.96
02 87 13 33-0040 SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	4.03
02 87 13 33-0041 SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.30

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0042 SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal	2.56	
02 87 13 33-0043 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024) Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0044 SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal	645.02	
02 87 13 33-0045 SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal	19.19	
02 87 13 33-0046 SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	14.68	
02 87 13 33-0047 SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	11.27	
02 87 13 33-0048 SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	8.72	
02 87 13 33-0049 Flooring, Mold Abatement And Disposal (02 87 13 33) Note: Includes cove base.		
02 87 13 33-0050 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0051 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050) Note: Single layer or first of multiple layers.		
02 87 13 33-0052 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	662.82	
02 87 13 33-0053 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	4.94	
For Each Additional Layer, Add	1.24	
02 87 13 33-0054 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	2.98	
For Each Additional Layer, Add	0.75	
02 87 13 33-0055 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.95	
For Each Additional Layer, Add	0.49	
02 87 13 33-0056 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.62	
For Each Additional Layer, Add	0.41	
02 87 13 33-0057 Carpet, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0058 Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0059 SET Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	662.82	
02 87 13 33-0060 SF >100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	4.19	
02 87 13 33-0061 SF >500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.82	
02 87 13 33-0062 SF >2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	2.05	
02 87 13 33-0063 SF >10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	1.69	
02 87 13 33-0064 Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0065 SET Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal.....	662.82	
Note: Includes tack strips.		
02 87 13 33-0066 SF >100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal.....	4.66	
Note: Includes tack strips.		
02 87 13 33-0067 SF >500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal.....	3.53	
Note: Includes tack strips.		
02 87 13 33-0068 SF >2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.90	
Note: Includes tack strips.		
02 87 13 33-0069 SF >10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	2.35	
Note: Includes tack strips.		
02 87 13 33-0070 Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0071 SET Up To 75 SF, Subflooring, Mold Abatement And Disposal	645.02	
02 87 13 33-0072 SF >75 To 500 SF, Subflooring, Mold Abatement And Disposal	5.61	
02 87 13 33-0073 SF >500 To 2,500 SF, Subflooring, Mold Abatement And Disposal.....	3.77	
02 87 13 33-0074 SF >2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal	2.48	
02 87 13 33-0075 SF >10,000 SF, Subflooring, Mold Abatement And Disposal	1.77	
02 87 13 33-0076 Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0077 Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076) Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078 SET Up To 100 SF, Interior Paneling, Mold Abatement And Disposal	662.82	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079 SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal.....	4.92	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080 SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal	3.61	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081 SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal	2.32	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082 SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal	1.89	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083 Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)		
02 87 13 33-0084 SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	662.82	
02 87 13 33-0085 SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.99	
02 87 13 33-0086 SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	4.32	



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02 87 13 33-0087 SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.07	
02 87 13 33-0088 SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	2.82	
02 87 13 33-0089 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0090 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)		
02 87 13 33-0091 SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	677.04	
02 87 13 33-0092 CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	24.74	
02 87 13 33-0093 CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	17.91	
02 87 13 33-0094 CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	14.50	
02 87 13 33-0095 CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	12.46	
02 87 13 33-0096 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.74	
02 87 13 33-0097 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.28	
02 87 13 33-0098 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0099 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098)		
Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100 SET Up To 100 LF, Wood Studs, Mold Abatement And Disposal	331.39	
02 87 13 33-0101 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal	2.74	
02 87 13 33-0102 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal	2.11	
02 87 13 33-0103 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal	1.69	
02 87 13 33-0104 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal	1.35	
02 87 13 33-0105 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098)		
Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106 SET Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal	662.82	
02 87 13 33-0107 SF >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	8.10	
02 87 13 33-0108 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	4.08	
02 87 13 33-0109 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.07	
02 87 13 33-0110 SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.82	
02 87 13 33-0111 Caulking, Mold Abatement And Disposal (02 87 13 33-0098)		
02 87 13 33-0112 SET Up To 20 LF, Caulking, Mold Abatement And Disposal	149.10	
02 87 13 33-0113 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	3.02	
02 87 13 33-0114 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.17	
02 87 13 33-0115 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	1.66	
02 87 13 33-0116 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.24	
02 87 13 33-0117 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.01	
02 87 13 33-0118 LF >2,500 LF, Caulking, Mold Abatement And Disposal	0.88	
02 87 13 33-0119 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)		
02 87 13 33-0120 CSF Wipe Down Floors With Mild Bleach Solution	16.45	
For >25 To 50, Deduct	-1.64	
For >50 To 200, Deduct	-4.11	
For >200, Deduct	-6.57	
02 87 13 33-0121 CSF Wipe Down Walls With Mild Bleach Solution	19.35	
For >25 To 50, Deduct	-1.93	
For >50 To 200, Deduct	-4.83	
For >200, Deduct	-7.73	
02 87 13 33-0122 CSF Wipe Down Ceilings With Mild Bleach Solution	22.02	
For >25 To 50, Deduct	-2.20	
For >50 To 200, Deduct	-5.50	
For >200, Deduct	-8.80	
02 87 13 33-0123 CSF Wipe Down Countertops With Mild Bleach Solution	17.95	
For >25 To 50, Deduct	-1.79	
02 87 13 33-0124 CSF Wipe Down Other Surfaces With Mild Bleach Solution	22.77	
For >25 To 50, Deduct	-2.28	
For >50 To 200, Deduct	-5.69	
For >200, Deduct	-9.10	
02 87 13 33-0125 Cabinets (02 87 13 33-0098)		
02 87 13 33-0126 SET Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	822.50	
02 87 13 33-0127 LF >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal	85.78	
02 87 13 33-0128 LF >20 LF, Base Cabinet, Mold Abatement And Disposal	68.09	
02 87 13 33-0129 SET Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal	694.43	
02 87 13 33-0130 LF >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	65.91	
02 87 13 33-0131 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal	48.20	
02 87 16 Excrement Removal (02 87)		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those		

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tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

02 87 16 13 Bird Excrement Removal (02 87 16)

02 87 16 13-0001	Bird Waste Removal (02 87 16 13)	
	Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.	
02 87 16 13-0002	EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	591.66
	For Work In Restricted Working Space, Add	177.50
02 87 16 13-0003	SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	9.86
	For Work In Restricted Working Space, Add	2.96
02 87 16 13-0004	SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness.....	8.97
	For Work In Restricted Working Space, Add	2.69
02 87 16 13-0005	SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness.....	8.15
	For Work In Restricted Working Space, Add	2.45
02 87 16 13-0006	SF >10,000 SF Bird Waste Removal, Up To 3" Thickness.....	7.41
	For Work In Restricted Working Space, Add	2.22

02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)

02 87 19 00-0001	Temporary Barriers (02 87 19)	
02 87 19 00-0002	Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)	
	Note: Panels are opal or transparent. Includes self leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.	
02 87 19 00-0003	EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	837.09
02 87 19 00-0004	EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	794.84
02 87 19 00-0005	EA 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	625.85
02 87 19 00-0006	EA 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1)	724.43
02 87 19 00-0007	EA 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005)	383.34
02 87 19 00-0008	EA 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006)	411.51
02 87 19 00-0009	EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010).....	1,280.71
	Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0010	EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003).....	1,421.54
	Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0011	EA 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)	1,703.20
	Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0012	EA 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004)	283.33
02 87 19 00-0013	EA 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	234.03
02 87 19 00-0014	EA 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	234.03
02 87 19 00-0015	EA Closure Strips (Edge Guard 3003).....	16.28
	Note: To seal panels to existing walls	
02 87 19 00-0016	EA Digital Differential Pressure Gauge Kit (Edge Guard 3005).....	392.98
02 87 19 00-0017	Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)	
	Note: Includes removal and disposal in approved landfill after use.	
02 87 19 00-0018	SF 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.55
02 87 19 00-0019	SF 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.73
02 87 19 00-0020	SF 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	0.99
02 87 19 00-0021	SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.64
02 87 19 00-0022	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.82
02 87 19 00-0023	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.08
02 87 19 00-0024	Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)	
	Note: Includes removal after use.	
02 87 19 00-0025	SF Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.08
02 87 19 00-0026	SF 1/2" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.09
02 87 19 00-0027	SF 3/4" Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.76
02 87 19 00-0028	Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)	
	Note: Includes removal after use.	
02 87 19 00-0029	SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.11
02 87 19 00-0030	SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	8.39
02 87 19 00-0031	SF 5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	6.23
02 87 19 00-0032	SF 5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	8.62
02 87 19 00-0033	SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	3.61
02 87 19 00-0034	Isolation Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0035 GSF Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control.....	23.73	
Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.		
02 87 19 00-0036 GSF Relocate Tent Construction To Different Area.....	2.85	
02 87 19 00-0037 Plexiglass Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0038 SF 3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	21.11	
02 87 19 00-0039 SF 1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	24.93	
02 87 19 00-0040 SF 3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control.....	35.10	
02 87 19 00-0041 PR Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control.....	1,214.80	
Note: Excludes gloves.		
02 87 19 00-0042 PR Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	434.92	
Note: For installation in glove iris port.		
02 87 19 00-0043 PR Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control.....	689.51	
Note: For installation in glove iris port.		
02 87 19 00-0044 EA 5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease.....	132.81	
Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).		
02 87 19 00-0045 Temporary Portable And Mobile Trailers (02 87 19)		
02 87 19 00-0046 Trailer Delivery (02 87 19 00-0045)		
02 87 19 00-0047 EA Deliver Trailer Within 25 Miles.....	1,074.43	
02 87 19 00-0048 Portable And Mobile Trailers, Purchase (02 87 19 00-0045)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049 EA 8' x 24' Mobile Trailer With Toilet, Purchase.....	10,514.95	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0050 EA 8' x 32' Mobile Trailer With Toilet, Purchase.....	14,851.73	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0051 EA 10' x 36' Mobile Trailer With Toilet, Purchase.....	21,184.15	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0052 EA 10' x 44' Mobile Trailer With Toilet, Purchase.....	26,465.42	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0053 EA 10' x 50' Mobile Trailer With Toilet, Purchase.....	30,086.66	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0054 EA 12' x 50' Mobile Trailer With Toilet, Purchase.....	31,634.28	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0055 EA 12' x 60' Mobile Trailer With Toilet, Purchase.....	35,199.10	
For Tie-Downs, Add		
	104.28	
02 87 19 00-0056 Accessories For Portable And Mobile Trailers (02 87 19 00-0045)		
02 87 19 00-0057 Skirting (02 87 19 00-0056)		
Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058 SF 1'-8" High Vinyl Covered Skirt.....	4.84	2.00
02 87 19 00-0059 SF 3' High Vinyl Covered Skirt.....	7.18	3.30
02 87 19 00-0060 Aluminum Modular Access Ramp (02 87 19 00-0056)		
Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
02 87 19 00-0061 EA Up To 35" High, Aluminum Modular Access Ramp.....	3,077.29	38.32
02 87 19 00-0062 Aluminum Modular Stairs (02 87 19 00-0056)		
Note: Excludes earthwork		
02 87 19 00-0063 EA Aluminum Steps For Mobile Trailers.....	856.51	
02 87 19 00-0064 Decontamination Chambers For Bio-Hazard And Infectious Disease Control (02 87 19)		
Note: Includes removal after use.		
02 87 19 00-0065 EA Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control.....	868.88	
Note: Includes connection to negative air system.		
02 87 19 00-0066 EA Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control.....	1,025.42	
Note: Includes connection to negative air system.		
02 87 19 00-0067 EA Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control.....	541.28	
Note: Includes connection to negative air system.		

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0068 Bio-Hazard And Infectious Disease Control Cleaning, Level 2 <small>(02 87 19)</small> Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069 Bio-Hazard And Infectious Disease Control Cleaning Mobilization <small>(02 87 19 00-0068)</small>		
02 87 19 00-0070 EA Bio-Hazard And Infectious Disease Control Mobilization And Set-Up.....	373.86	
Note: Mobilization and set-up minimum for each site location.		
02 87 19 00-0071 Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces <small>(02 87 19 00-0068)</small> Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces		
02 87 19 00-0072 CSF Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	27.71	
For >25 To 50, Deduct	-2.77	
For >50 To 200, Deduct	-5.54	
For >200, Deduct	-8.31	
For Cleaning Surfaces With Goldshield® GS5, Add	11.73	
For Level 1 Biohazard Cleaning, Deduct	-5.54	
For Level 3 Biohazard Cleaning, Add	9.14	
02 87 19 00-0073 CSF Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.60	
For >25 To 50, Deduct	-3.26	
For >50 To 200, Deduct	-6.52	
For >200, Deduct	-9.77	
For Cleaning Surfaces With Goldshield® GS5, Add	11.73	
For Level 1 Biohazard Cleaning, Deduct	-6.52	
For Level 3 Biohazard Cleaning, Add	10.75	
02 87 19 00-0074 CSF Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	37.09	
For >25 To 50, Deduct	-3.71	
For >50 To 200, Deduct	-7.41	
For >200, Deduct	-11.12	
For Cleaning Surfaces With Goldshield® GS5, Add	11.73	
For Level 1 Biohazard Cleaning, Deduct	-7.41	
For Level 3 Biohazard Cleaning, Add	12.23	
02 87 19 00-0075 CSF Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	30.23	
For Cleaning Surfaces With Goldshield® GS5, Add	11.73	
For >5 To 10, Deduct	-1.51	
For >10 To 50, Deduct	-3.02	
For >50, Deduct	-6.04	
For Level 1 Biohazard Cleaning, Deduct	-6.04	
For Level 3 Biohazard Cleaning, Add	9.97	
02 87 19 00-0076 CSF Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	38.36	
For >25 To 50, Deduct	-3.83	
For >50 To 200, Deduct	-7.67	
For >200, Deduct	-11.50	
For Cleaning Surfaces With Goldshield® GS5, Add	11.73	
For Level 1 Biohazard Cleaning, Deduct	-7.67	
For Level 3 Biohazard Cleaning, Add	12.65	
02 87 19 00-0077 Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials <small>(02 87 19 00-0068)</small> Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect		
02 87 19 00-0078 EA Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	71.63	
For Level 1 Biohazard Cleaning, Deduct	-14.32	
For Level 3 Biohazard Cleaning, Add	23.63	
For Cleaning Surfaces With Goldshield® GS5, Add	5.86	
02 87 19 00-0079 EA Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution	32.87	
For Level 1 Biohazard Cleaning, Deduct	-6.57	
For Level 3 Biohazard Cleaning, Add	10.84	
For Cleaning Surfaces With Goldshield® GS5, Add	3.91	
02 87 19 00-0080 EA Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	115.39	
For Level 1 Biohazard Cleaning, Deduct	-23.07	
For Level 3 Biohazard Cleaning, Add	38.07	
For Cleaning Surfaces With Goldshield® GS5, Add	5.86	
02 87 19 00-0081 EA Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	7.11	
For Level 1 Biohazard Cleaning, Deduct	-1.42	
For Level 3 Biohazard Cleaning, Add	2.34	
For Cleaning Surfaces With Goldshield® GS5, Add	1.17	
02 87 19 00-0082 EA Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up	106.38	
Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers		
For Level 1 Biohazard Cleaning, Deduct	-21.27	
For Level 3 Biohazard Cleaning, Add	35.10	
For Cleaning Surfaces With Goldshield® GS5, Add	5.86	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0083	EA			Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up.....	11.36	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.27	
				<i>For Level 3 Biohazard Cleaning, Add</i>	3.74	
				<i>For Cleaning Surfaces With Goldshield® GS5, Add</i>	1.17	
02 87 19 00-0084				Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork (02 87 19 00-0068)		
02 87 19 00-0085	LF			Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	4.18	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.83	
				<i>For Level 3 Biohazard Cleaning, Add</i>	1.37	
02 87 19 00-0086	LF			>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	5.25	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.04	
				<i>For Level 3 Biohazard Cleaning, Add</i>	1.72	
02 87 19 00-0087	LF			>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	7.02	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.38	
				<i>For Level 3 Biohazard Cleaning, Add</i>	2.28	
02 87 19 00-0088	LF			>8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	9.92	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.95	
				<i>For Level 3 Biohazard Cleaning, Add</i>	3.21	
02 87 19 00-0089	EA			Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	186.95	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-37.39	
				<i>For Level 3 Biohazard Cleaning, Add</i>	61.69	
02 87 19 00-0090	SF			Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....	13.01	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.60	
				<i>For Level 3 Biohazard Cleaning, Add</i>	4.29	
02 87 19 00-0091	EA			Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning.....	124.64	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-24.92	
				<i>For Level 3 Biohazard Cleaning, Add</i>	41.12	
02 87 19 00-0092	EA			Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	373.88	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-74.77	
				<i>For Level 3 Biohazard Cleaning, Add</i>	123.37	
02 87 19 00-0093	EA			Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning..... Note: Includes removal and reinstallation.	31.18	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-6.23	
				<i>For Level 3 Biohazard Cleaning, Add</i>	10.28	
02 87 19 00-0094	SF			Apply Sporicidin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.55	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
				<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0095	SF			Apply Goldshield® GS5 Antimicrobial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.62	
				<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.10	
				<i>For Level 3 Biohazard Cleaning, Add</i>	0.17	
02 87 19 00-0096				Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)		
				Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097	DAY			Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	141.76	
02 87 19 00-0098	WK			Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	603.81	
02 87 19 00-0099	MO			Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	1,690.66	
02 87 19 00-0100	DAY			Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	125.69	
02 87 19 00-0101	WK			Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	345.65	
02 87 19 00-0102	MO			Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	942.68	
02 87 19 00-0103	DAY			Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	39.65	
02 87 19 00-0104	WK			Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	109.03	
02 87 19 00-0105	MO			Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	297.36	
02 87 19 00-0106	DAY			Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	81.38	
02 87 19 00-0107	WK			Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	334.24	
02 87 19 00-0108	MO			Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	1,009.97	
02 87 19 00-0109	EA			High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio- Hazard And Infectious Disease Control Clean-up..... Note: Required if over 800 hours operation.	173.27	
02 87 19 00-0110	DAY			20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	395.20	
02 87 19 00-0111	WK			20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	790.40	
02 87 19 00-0112	MO			20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,580.80	
02 87 19 00-0113	DAY			20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	526.93	
02 87 19 00-0114	WK			20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,053.86	
02 87 19 00-0115	MO			20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,107.73	
02 87 19 00-0116	DAY			20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	789.21	
02 87 19 00-0117	WK			20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,578.42	
02 87 19 00-0118	MO			20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,156.85	
02 87 19 00-0119	DAY			20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,052.28	

02 Existing Conditions**02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,104.56	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	4,209.13	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,315.35	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,630.70	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	5,261.41	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	113.97	
Note: Includes staking down tent.		
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	227.94	
Note: Includes staking down tent.		
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	683.81	
Note: Includes staking down tent.		
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	1,367.62	
Note: Includes staking down tent.		
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up	2,279.38	
Note: Includes staking down tent.		
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	86.42	
02 87 19 00-0131 WK Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	237.65	
02 87 19 00-0132 MO Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up	648.13	
02 87 19 00-0133 Bio-Hazard And Infectious Disease Control Hauling By Truck <small>(02 87 19)</small>		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134 EA Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	95.76	
Note: Each first 15 miles per trip		
For Each Additional Mile Over First 15 Miles, Add Per Mile	1.20	
02 87 19 00-0135 EA Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Clean Up	146.39	
Note: Each first 15 miles per trip		
For Each Additional Mile Over First 15 Miles, Add Per Mile	1.83	
02 87 19 00-0136 EA Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	152.24	
Note: Each first 15 miles per trip		
For Each Additional Mile Over First 15 Miles, Add Per Mile	1.90	
02 87 19 00-0137 EA Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up	161.14	
Note: Each first 15 miles per trip		
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.01	
02 87 19 00-0138 Bio-Hazard And Infectious Disease Control Disposal <small>(02 87 19)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139 CY Bio-Hazard And Infectious Disease Control Landfill Dump Fee	115.26	
02 87 19 00-0140 BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters <small>(02 87 19)</small>		
Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141 EA 20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P)	36,664.79	
02 87 19 00-0142 EA 7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST)	3,524.71	
02 87 19 00-0143 EA Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04)	5,831.98	
02 87 19 00-0144 SF Sub Flooring For Medical Shelter (AKS-AB846)	5.47	
02 87 19 00-0145 EA Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5)	1,600.76	
02 87 19 00-0146 EA Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5)	26,218.36	
02 87 19 00-0147 EA 3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915)	913.85	
02 87 19 00-0148 EA Negative Pressure Isolation (NPI) System (AK-NPIS-5)	41,267.27	
Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case		
02 87 19 00-0149 EA 6' Step Ladder (AKS-AC595)	250.02	
02 87 19 00-0150 EA 10 Lbs Sledgehammer (AKS-AA268)	75.06	
02 87 19 00-0151 Bio-Hazard And Infectious Disease Time And Material Tasks <small>(02 87 19)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0152 Bio-Hazard And Infectious Disease Control Labor <small>(02 87 19 00-0151)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153 HR General Laborer For Bio-Hazard And Infectious Disease Control Clean Up	93.96	
02 87 19 00-0154 HR Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up	139.02	
02 87 19 00-0155 HR Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up	101.25	
02 87 19 00-0156 HR Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up	121.74	
02 87 19 00-0157 HR Project Manager For Bio-Hazard And Infectious Disease Control Clean Up	133.89	
02 87 19 00-0158 Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment <small>(02 87 19 00-0151)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159 EA Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.13	



Existing Conditions	02
Facility Remediation	02 80
Bio-Hazard Material Remediation	02 87

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 87 19 00-0160	EA	Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	21.48
02 87 19 00-0161	PR	Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	13.92
02 87 19 00-0162	EA	Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	101.30
02 87 19 00-0163	EA	Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	45.86
02 87 19 00-0164	EA	Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	309.05
		Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension	
02 87 19 00-0165	EA	14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	42.25
		Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010	
02 87 19 00-0166	EA	19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	76.75
		Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.	
02 87 19 00-0167	BOX	Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	23.79
02 87 19 00-0168	EA	Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	20.31
02 87 19 00-0169	EA	Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	2,065.76
		Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Afi), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly	

02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables (02 87 19 00-0151)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.

02 87 19 00-0171	GAL	Bleach For Bio-Hazard And Infectious Disease Control Clean-up	10.23
02 87 19 00-0172	EA	N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up	3.40
02 87 19 00-0173	GAL	Disinfectant/Antimicrobial For Bio-Hazard And Infectious Disease Control Clean Up	100.27
02 87 19 00-0174	GAL	Goldshield® G55 Antimicrobial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up	281.48
		Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days	
02 87 19 00-0175	QT	Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up	10.63
02 87 19 00-0176	EA	Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up	5.01
02 87 19 00-0177	ROL	Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up	13.05
02 87 19 00-0178	EA	UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up	61.50
02 87 19 00-0179	ROL	Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up	52.60
02 87 19 00-0180	LB	Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up	7.75
02 87 19 00-0181	EA	Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up	15.66
02 87 19 00-0182	ROL	6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up	161.91

02 89 Hazmat Ancillary Tasks and Support (02 80)

02 89 00 00-0001		Barriers And Protection <small>(02 89)</small>	
		Note: Includes removal and disposal after use.	
02 89 00 00-0002		Isolation Barriers <small>(02 89 00 00-0001)</small>	
		See CSI section 01 56 16 00-0031 for temporary stud walls.	
02 89 00 00-0003		Hazmat Containment Construction <small>(02 89 00 00-0001)</small>	
02 89 00 00-0004	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction	0.36
02 89 00 00-0005	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.48
02 89 00 00-0006	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.63
02 89 00 00-0007	SF	6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.66
02 89 00 00-0008	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.84
02 89 00 00-0009	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.10
02 89 00 00-0010		Decontamination Chambers <small>(02 89)</small>	
		Note: Includes removal after use.	
02 89 00 00-0011	EA	3 Stage Portable Personnel Decontamination Wash Facility	878.59
		Note: Includes connection to negative air system.	
02 89 00 00-0012	EA	5 Stage Portable Personnel Decontamination Wash Facility	1,037.09
		Note: Includes connection to negative air system.	
02 89 00 00-0013	EA	Portable Waste Decontamination Unit	549.06
		Note: Includes connection to negative air system.	
		<i>For Dismantling And Relocation To A Different Area, Add</i>	<i>369.61</i>

02 90 Disaster Recovery (02)

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

02 90 50 Cleaning and Disaster Clean-up (02 90)

02 90 50 00-0001		Non-Mold Contaminated Wet Material Removal	
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02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			Note: For materials not requiring mold abatement.		
02 90 50 00-0002	SY		Wet Broadloom Carpet Removal For Disaster Clean-up	23.18	
02 90 50 00-0003	SY		Wet Carpet Tile Removal For Disaster Clean-up	5.64	
02 90 50 00-0004	SF		Wet Batt Insulation Removal For Disaster Clean-up	0.47	
02 90 50 00-0005	SF		Wet Ceiling Tile Removal For Disaster Clean-up	0.56	
02 90 50 00-0006	SF		Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.55	
02 90 50 00-0007	SF		Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.86	
02 90 50 00-0008			Cleaning <small>(02 90 50)</small>		
			Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required		
02 90 50 00-0009			Clean Furnishings <small>(02 90 50 00-0008)</small>		
02 90 50 00-0010	EA		Office Equipment, Exterior Wipe For Disaster Clean-up	27.80	
			<i>For Medium Clean, Add</i>	11.68	
			<i>For Heavy Clean, Add</i>	36.14	
02 90 50 00-0011	SF		Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up	1.55	
			<i>For Medium Clean, Add</i>	0.65	
			<i>For Heavy Clean, Add</i>	2.02	
02 90 50 00-0012	LF		Shelving, Light Clean For Disaster Clean-up	2.78	
			<i>For Medium Clean, Add</i>	1.17	
			<i>For Heavy Clean, Add</i>	3.61	
02 90 50 00-0013	EA		Plastic Or Metal Chair, Light Clean For Disaster Clean-up	8.03	
			<i>For Medium Clean, Add</i>	3.37	
			<i>For Heavy Clean, Add</i>	10.44	
02 90 50 00-0014	EA		Upholstered Chair, Light Clean For Disaster Clean-up	25.95	
			<i>For Medium Clean, Add</i>	10.90	
			<i>For Heavy Clean, Add</i>	33.74	
02 90 50 00-0015	EA		Upholstered Sofa, Light Clean For Disaster Clean-up	159.98	
			<i>For Medium Clean, Add</i>	67.19	
			<i>For Heavy Clean, Add</i>	207.97	
02 90 50 00-0016	EA		Desk, Light Clean For Disaster Clean-up	32.74	
			<i>For Medium Clean, Add</i>	13.75	
			<i>For Heavy Clean, Add</i>	42.56	
02 90 50 00-0017	EA		Table, Light Clean For Disaster Clean-up	30.89	
			<i>For Medium Clean, Add</i>	12.97	
			<i>For Heavy Clean, Add</i>	40.16	
02 90 50 00-0018	EA		Two Drawer File Cabinet, Light Clean For Disaster Clean-up	6.77	
			<i>For Medium Clean, Add</i>	2.84	
			<i>For Heavy Clean, Add</i>	8.80	
02 90 50 00-0019	EA		Four Drawer File Cabinet, Light Clean For Disaster Clean-up	8.66	
			<i>For Medium Clean, Add</i>	3.64	
			<i>For Heavy Clean, Add</i>	11.26	
02 90 50 00-0020	LF		Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
			<i>For Medium Clean, Add</i>	2.99	
			<i>For Heavy Clean, Add</i>	9.24	
02 90 50 00-0021	LF		Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	13.90	
			<i>For Medium Clean, Add</i>	5.84	
			<i>For Heavy Clean, Add</i>	18.07	
02 90 50 00-0022	LF		Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.11	
			<i>For Medium Clean, Add</i>	2.99	
			<i>For Heavy Clean, Add</i>	9.24	
02 90 50 00-0023	LF		Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	12.35	
			<i>For Medium Clean, Add</i>	5.19	
			<i>For Heavy Clean, Add</i>	16.06	
02 90 50 00-0024	EA		Picture Frame, Glass And Back, Light Clean For Disaster Clean-up	2.96	
			<i>For Medium Clean, Add</i>	1.24	
			<i>For Heavy Clean, Add</i>	3.85	
02 90 50 00-0025			Clean Hard Surfaces <small>(02 90 50 00-0008)</small>		
02 90 50 00-0026	LF		Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up	0.40	
			<i>For Medium Clean, Add</i>	0.17	
			<i>For Heavy Clean, Add</i>	0.52	
02 90 50 00-0027	EA		Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.25	
			<i>For Medium Clean, Add</i>	2.21	
			<i>For Heavy Clean, Add</i>	6.83	
02 90 50 00-0028	EA		Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.95	
			<i>For Medium Clean, Add</i>	2.50	
			<i>For Heavy Clean, Add</i>	7.74	
02 90 50 00-0029	SF		Overhead Door, Light Clean For Disaster Clean-up	0.42	
			<i>For Medium Clean, Add</i>	0.18	
			<i>For Heavy Clean, Add</i>	0.55	
02 90 50 00-0030	SF		Mirror, Light Clean For Disaster Clean-up	0.31	
			<i>For Medium Clean, Add</i>	0.13	
			<i>For Heavy Clean, Add</i>	0.40	
02 90 50 00-0031	SF		Window, Light Clean For Disaster Clean-up	0.91	
			<i>For Medium Clean, Add</i>	0.38	
			<i>For Heavy Clean, Add</i>	1.18	
02 90 50 00-0032	LF		Handrail, Light Clean For Disaster Clean-up	0.81	
			<i>For Medium Clean, Add</i>	0.34	
			<i>For Heavy Clean, Add</i>	1.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0033 LF Bumper Rail, Light Clean For Disaster Clean-up.....	0.44	
<i>For Medium Clean, Add</i>	0.18	
<i>For Heavy Clean, Add</i>	0.57	
02 90 50 00-0034 SF Hard Floor, Light Clean For Disaster Clean-up.....	0.36	
<i>For Medium Clean, Add</i>	0.15	
<i>For Heavy Clean, Add</i>	0.47	
02 90 50 00-0035 SF Carpet, Light Clean For Disaster Clean-up.....	0.37	
<i>For Medium Clean, Add</i>	0.16	
<i>For Heavy Clean, Add</i>	0.48	
02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up.....	0.28	
<i>For Medium Clean, Add</i>	0.12	
<i>For Heavy Clean, Add</i>	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up.....	0.31	
<i>For Medium Clean, Add</i>	0.13	
<i>For Heavy Clean, Add</i>	0.40	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up.....	0.26	
<i>For Medium Clean, Add</i>	0.11	
<i>For Heavy Clean, Add</i>	0.34	
02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up.....	0.19	
<i>For Medium Clean, Add</i>	0.08	
<i>For Heavy Clean, Add</i>	0.25	
02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up.....	0.26	
<i>For Medium Clean, Add</i>	0.11	
<i>For Heavy Clean, Add</i>	0.34	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	65.15	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	27.36	
<i>For Heavy Clean, Add</i>	84.70	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	81.43	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	34.20	
<i>For Heavy Clean, Add</i>	105.86	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	97.71	
Note: Includes removal from site, cleaning, and return.		
<i>For Medium Clean, Add</i>	41.04	
<i>For Heavy Clean, Add</i>	127.02	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up.....	114.00	
<i>For Medium Clean, Add</i>	47.88	
<i>For Heavy Clean, Add</i>	148.20	
02 90 50 00-0045 Clean Window Treatments <small>(02 90 50 00-0008)</small>		
02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up.....	0.71	
<i>For Medium Clean, Add</i>	0.30	
<i>For Heavy Clean, Add</i>	0.92	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.45	
<i>For Medium Clean, Add</i>	0.61	
<i>For Heavy Clean, Add</i>	1.89	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.67	
<i>For Medium Clean, Add</i>	0.70	
<i>For Heavy Clean, Add</i>	2.17	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.52	
<i>For Medium Clean, Add</i>	0.64	
<i>For Heavy Clean, Add</i>	1.98	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.75	
<i>For Medium Clean, Add</i>	0.74	
<i>For Heavy Clean, Add</i>	2.28	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	1.86	
<i>For Medium Clean, Add</i>	0.78	
<i>For Heavy Clean, Add</i>	2.42	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up.....	2.14	
<i>For Medium Clean, Add</i>	0.90	
<i>For Heavy Clean, Add</i>	2.78	
02 90 50 00-0053 Clean Appliances <small>(02 90 50 00-0008)</small>		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up.....	12.80	
<i>For Medium Clean, Add</i>	5.38	
<i>For Heavy Clean, Add</i>	16.64	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up.....	30.15	
<i>For Medium Clean, Add</i>	12.66	
<i>For Heavy Clean, Add</i>	39.20	
02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up.....	26.06	
<i>For Medium Clean, Add</i>	10.95	
<i>For Heavy Clean, Add</i>	33.88	
02 90 50 00-0057 Clean Plumbing <small>(02 90 50 00-0008)</small>		
02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up.....	18.54	
<i>For Medium Clean, Add</i>	7.79	
<i>For Heavy Clean, Add</i>	24.10	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up.....	18.72	
<i>For Medium Clean, Add</i>	7.86	
<i>For Heavy Clean, Add</i>	24.34	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up.....	8.59	
For Medium Clean, Add	3.61	
For Heavy Clean, Add	11.17	
02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)		
02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up.....	5.53	
For Medium Clean, Add	2.32	
For Heavy Clean, Add	7.19	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up	15.45	
For Medium Clean, Add	6.49	
For Heavy Clean, Add	20.09	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up	59.30	
For Medium Clean, Add	24.91	
For Heavy Clean, Add	77.09	
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up	5.56	
For Medium Clean, Add	2.34	
For Heavy Clean, Add	7.23	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up.....	38.51	
For Medium Clean, Add	16.17	
For Heavy Clean, Add	50.06	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	34.29	
For Medium Clean, Add	14.40	
For Heavy Clean, Add	44.58	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up.....	22.86	
For Medium Clean, Add	9.60	
For Heavy Clean, Add	29.72	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up.....	24.71	
For Medium Clean, Add	10.38	
For Heavy Clean, Add	32.12	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up.....	32.12	
For Medium Clean, Add	13.49	
For Heavy Clean, Add	41.76	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up.....	22.54	
For Medium Clean, Add	9.47	
For Heavy Clean, Add	29.30	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up.....	14.83	
For Medium Clean, Add	6.23	
For Heavy Clean, Add	19.28	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up	6.79	
For Medium Clean, Add	2.85	
For Heavy Clean, Add	8.83	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up	5.25	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.83	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up.....	1.85	
For Medium Clean, Add	0.78	
For Heavy Clean, Add	2.41	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up.....	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up.....	0.23	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up	0.28	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up.....	175.39	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up.....	232.60	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up.....	143.67	
02 90 50 00-0086 Water Disaster Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up	0.67	
02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up	1.19	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.37	
02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up.....	0.45	
02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up	0.74	
02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up	1.16	
02 90 50 00-0093 SF Tear Out Wet Non Salvageable Carpet For Disaster Clean-up	0.36	
02 90 50 00-0094 SF Tear Out Wet Non Salvageable Carpet, Black Water For Disaster Clean-up	0.43	
02 90 50 00-0095 SF Tear Out Wet Non Salvageable Glue Down Carpet For Disaster Clean-up	0.65	
02 90 50 00-0096 SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water For Disaster Clean-up.....	0.94	
02 90 50 00-0097 SF Tear Out Vinyl Flooring For Disaster Clean-up	0.89	
02 90 50 00-0098 SF Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.31	
02 90 50 00-0099 SF Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.39	
02 90 50 00-0100 SF Tear Out Laminated Wood Flooring For Disaster Clean-up.....	1.67	
02 90 50 00-0101 SF Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up.....	2.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0102 SF Tear Out Wet Ceiling Tile For Disaster Clean-up.....	.028	
02 90 50 00-0103 SF Tear Out Batt Insulation For Disaster Clean-up.....	.028	
02 90 50 00-0104 SF Tear Out Wet Gypsum Board For Disaster Clean-up.....	.048	
02 90 50 00-0105 SF Apply Antimicrobial Agent For Disaster Clean-up.....	.026	
02 90 50 00-0106 SF High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up.....	.035	
02 90 50 00-0107 Board Up And Tarp Up (02 90 50)		
02 90 50 00-0108 SF Polyethylene Tarp On Roof For Disaster Clean-up.....	.026	
02 90 50 00-0109 SF Temporary Plywood On Roof For Disaster Clean-up.....	1.49	
02 90 50 00-0110 SF Temporary Plywood On Wall Or Windows For Disaster Clean-up.....	1.86	
02 90 50 00-0111 Minimum Charges (02 90 50)		
02 90 50 00-0112 EA Disaster Cleaning Minimum Charge.....	1,127.92	
02 90 50 00-0113 EA Disaster Water Extraction Minimum Charge.....	242.67	
02 90 50 00-0114 EA Disaster Carpet Cleaning Minimum Charge.....	225.83	
02 90 50 00-0115 Document Restoration (02 90 50)		
02 90 50 00-0116 EA Book Rebinding, Each For Document Restoration.....	116.62	
02 90 50 00-0117 EA Book Recasing, Each For Document Restoration.....	58.30	
02 90 50 00-0118 EA Boxes-MCS, 1.2 CF For Document Restoration.....	7.34	
02 90 50 00-0119 EA Boxes-MCS, 2.0 CF For Document Restoration.....	8.10	
02 90 50 00-0120 EA Boxes Bankers For Document Restoration.....	18.63	
02 90 50 00-0121 EA Boxes Standard Packout For Document Restoration.....	4.70	
02 90 50 00-0122 EA Boxes X Ray For Document Restoration.....	11.67	
02 90 50 00-0123 EA CD Scanning and Diagnostics, Each For Document Restoration.....	11.67	
02 90 50 00-0124 EA Cleaning Antique Books, Each For Document Restoration.....	349.85	
02 90 50 00-0125 EA Cleaning Catheter Roll, Per Roll For Document Restoration.....	46.63	
02 90 50 00-0126 EA Cleaning CD And DVD, Per Disc For Document Restoration.....	4.69	
02 90 50 00-0127 EA Cleaning Level 1 - Blue Prints, Each For Document Restoration.....	3.28	
02 90 50 00-0128 CF Cleaning Level 1 - Document Per CF For Document Restoration.....	101.58	
02 90 50 00-0129 EA Cleaning Level 1 - Linen, Each For Document Restoration.....	3.28	
02 90 50 00-0130 EA Cleaning Level 1 - Mylar, Each For Document Restoration.....	3.28	
02 90 50 00-0131 EA Cleaning Level 2 - Blue Print, Each For Document Restoration.....	4.07	
02 90 50 00-0132 CF Cleaning Level 2 - Document Per CF For Document Restoration.....	152.23	
02 90 50 00-0133 EA Cleaning Level 2 - Linen, Each For Document Restoration.....	4.07	
02 90 50 00-0134 EA Cleaning Level 2 - Mylar, Each For Document Restoration.....	4.07	
02 90 50 00-0135 EA Cleaning Level 3 - Blue Prints, Each For Document Restoration.....	5.78	
02 90 50 00-0136 CF Cleaning Level 3 - Document Per CF For Document Restoration.....	203.12	
02 90 50 00-0137 EA Cleaning Level 3 - Linen, Each For Document Restoration.....	5.78	
02 90 50 00-0138 EA Cleaning Level 3 - Mylar, Each For Document Restoration.....	5.78	
02 90 50 00-0139 EA Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration.....	8.10	
02 90 50 00-0140 EA Cleaning Level 4 - All Fire-Linen, Each For Document Restoration.....	8.10	
02 90 50 00-0141 EA Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration.....	8.10	
02 90 50 00-0142 CF Cleaning Level 4 - Light Fire-Documnt Per CF For Document Restoration.....	253.85	
02 90 50 00-0143 EA Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration.....	8.97	
02 90 50 00-0144 CF Cleaning Level 5 - Severe Fire-Documnt Per CF For Document Restoration.....	380.89	
02 90 50 00-0145 EA Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration.....	8.97	
02 90 50 00-0146 EA Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration.....	8.97	
02 90 50 00-0147 EA Cleaning Microfiche Sheets, Each For Document Restoration.....	3.19	
02 90 50 00-0148 EA Cleaning Microfiche Strips, Each For Document Restoration.....	0.74	
02 90 50 00-0149 EA Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration.....	116.62	
02 90 50 00-0150 EA Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration.....	163.27	
02 90 50 00-0151 EA Cleaning Photographs Negatives, Per Negative For Document Restoration.....	3.19	
02 90 50 00-0152 EA Cleaning Photographs, Each For Document Restoration.....	0.74	
02 90 50 00-0153 EA Cleaning Record Albums, Each For Document Restoration.....	4.69	
02 90 50 00-0154 EA Cleaning VHS And Beta Tapes-In House, Each For Document Restoration.....	11.67	
02 90 50 00-0155 EA Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration.....	46.63	
02 90 50 00-0156 EA Cleaning X Ray 1-1000, Per Film For Document Restoration.....	4.35	
02 90 50 00-0157 EA Cleaning X Ray 1K-5K, Per Film For Document Restoration.....	3.72	
02 90 50 00-0158 EA Cleaning X Ray 5K-Up, Per Film For Document Restoration.....	2.92	
02 90 50 00-0159 EA Copying Clean Water, Per Page For Document Restoration.....	0.42	
02 90 50 00-0160 EA Copying Greywater Fire, Per Page For Document Restoration.....	1.26	
02 90 50 00-0161 CF Deodorization, Vapor Tech For Document Restoration.....	8.02	
02 90 50 00-0162 CF Disinfectant-Fogging For Document Restoration.....	16.35	
02 90 50 00-0163 EA Document Disposal In House No Shredding For Document Restoration.....	62.32	
02 90 50 00-0164 EA Document Disposal In House With Shredding For Document Restoration.....	17.01	
02 90 50 00-0165 CF Up To 150 CF, Drying-MCS Center For Document Restoration.....	209.91	
02 90 50 00-0166 CF >150 To 500 CF, Drying-MCS Center For Document Restoration.....	163.27	
02 90 50 00-0167 CF >500 CF, Drying-MCS Center For Document Restoration.....	139.94	
02 90 50 00-0168 CF >50 To 150 CF, Drying-MCS Center For Document Restoration.....	186.59	
02 90 50 00-0169 CF Up To 500 CF, Drying-Onsite For Document Restoration.....	349.85	
02 90 50 00-0170 CF >500 CF, Drying-Onsite For Document Restoration.....	214.61	
02 90 50 00-0171 EA Drying Antique Books, Each For Document Restoration.....	46.63	
02 90 50 00-0172 EA Drying Blue Prints, Each For Document Restoration.....	5.83	
02 90 50 00-0173 EA DVD Scanning And Diagnostics, Each For Document Restoration.....	11.67	
02 90 50 00-0174 EA Freeze Drying (In House) For Document Restoration.....	105.73	
02 90 50 00-0175 EA Freeze Drying (Outside) For Document Restoration.....	90.62	
02 90 50 00-0176 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration.....	2,492.16	

02 Existing Conditions**02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0177	CF		>48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration.....	22.66	
02 90 50 00-0178	EA		Minimal Drying Jobs For Document Restoration.....	1,049.73	
02 90 50 00-0179	EA		Monthly Storage For Document Restoration.....	195.70	
02 90 50 00-0180	EA		Mylar Prints For Document Restoration.....	11.67	
02 90 50 00-0181	CF		Ozoning For Document Restoration.....	7.20	
02 90 50 00-0182	CF		Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration.....	9.12	
02 90 50 00-0183	MO		Stabilization Freezer Storage, Per Page-Per Month For Document Restoration.....	0.11	
02 90 50 00-0184	EA		Wood Pallets, Each For Document Restoration.....	25.36	

02 90 55 Emergency Clean-up (02 90 55)**02 90 55 00-0001****Emergency Clean-up (02 90 55)**

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0002**Emergency Clean-up Labor (02 90 55 00-0001)**

Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0003	HR		Skilled Tradesman For Emergency Clean Up.....	60.72	
02 90 55 00-0004	HR		Restoration / Document Laborer For Emergency Clean Up.....	42.50	
02 90 55 00-0005	HR		Restoration / Document Supervisor For Emergency Clean Up.....	58.44	
02 90 55 00-0006	HR		Restoration / Document Project Manager For Emergency Clean Up.....	95.63	
02 90 55 00-0007	HR		Assistant Project Manager For Emergency Clean Up.....	79.70	
02 90 55 00-0008	HR		Senior Project Manager For Emergency Clean Up.....	111.57	
02 90 55 00-0009	HR		Project Director / Document Consultant / Account Manager For Emergency Clean Up.....	159.39	
02 90 55 00-0010	HR		Equipment Technician For Emergency Clean Up.....	116.89	
02 90 55 00-0011	HR		Mold Remediation Laborer For Emergency Clean Up.....	58.19	
02 90 55 00-0012	HR		Mold Remediation Supervisor For Emergency Clean Up.....	79.70	
02 90 55 00-0013	HR		Administrative Personnel For Emergency Clean Up.....	37.19	
02 90 55 00-0014	HR		Project Accountant For Emergency Clean Up.....	60.72	
02 90 55 00-0015	HR		Biohazard Technician For Emergency Clean Up.....	84.38	
02 90 55 00-0016	HR		Biohazard Supervisor For Emergency Clean Up.....	101.45	
02 90 55 00-0017	HR		Health And Safety Officer For Emergency Clean Up.....	91.08	
02 90 55 00-0018	HR		Resource And Logistics Coordinator For Emergency Clean Up.....	65.78	
02 90 55 00-0019	HR		Loss Control Specialist For Emergency Clean Up.....	63.76	
02 90 55 00-0020	HR		Moisture Control Specialist For Emergency Clean Up.....	52.62	
02 90 55 00-0021	HR		Mobilization Support For Emergency Clean Up.....	32.38	

02 90 55 00-0022**Emergency Clean-up Equipment (02 90 55 00-0001)**

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0023**General Emergency Clean-up Equipment (02 90 55 00-0022)**

02 90 55 00-0024	DAY		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	141.76	
02 90 55 00-0025	WK		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	540.80	
02 90 55 00-0026	MO		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	1,480.64	
02 90 55 00-0027	DAY		13" Floor Buffer Rental For Emergency Clean-up.....	47.58	
02 90 55 00-0028	WK		13" Floor Buffer Rental For Emergency Clean-up.....	133.61	
02 90 55 00-0029	MO		13" Floor Buffer Rental For Emergency Clean-up.....	368.85	
02 90 55 00-0030	DAY		17" Floor Buffer Rental For Emergency Clean-up.....	92.21	
02 90 55 00-0031	WK		17" Floor Buffer Rental For Emergency Clean-up.....	235.24	
02 90 55 00-0032	MO		17" Floor Buffer Rental For Emergency Clean-up.....	555.16	
02 90 55 00-0033	DAY		Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	508.11	
02 90 55 00-0034	WK		Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	1,364.38	
02 90 55 00-0035	MO		Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	3,801.44	
02 90 55 00-0036	DAY		Ride-On Floor Scrubber Rental For Emergency Clean-up.....	1,147.96	
02 90 55 00-0037	WK		Ride-On Floor Scrubber Rental For Emergency Clean-up.....	3,029.86	
02 90 55 00-0038	MO		Ride-On Floor Scrubber Rental For Emergency Clean-up.....	8,167.45	
02 90 55 00-0039	DAY		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	82.80	
02 90 55 00-0040	WK		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	235.24	
02 90 55 00-0041	MO		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	809.22	
02 90 55 00-0042	DAY		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	77.16	
02 90 55 00-0043	WK		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	207.01	
02 90 55 00-0044	MO		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	536.34	
02 90 55 00-0045	DAY		17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	123.45	
02 90 55 00-0046	WK		17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	352.29	
02 90 55 00-0047	MO		17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up.....	984.61	
02 90 55 00-0048	DAY		Truck Mounted Extractor Rental For Emergency Clean-up.....	774.97	
02 90 55 00-0049	WK		Truck Mounted Extractor Rental For Emergency Clean-up.....	2,324.92	
02 90 55 00-0050	MO		Truck Mounted Extractor Rental For Emergency Clean-up.....	6,974.75	
02 90 55 00-0051	DAY		16" Chain Saw Rental For Emergency Clean-up.....	90.33	
02 90 55 00-0052	WK		16" Chain Saw Rental For Emergency Clean-up.....	203.25	
02 90 55 00-0053	MO		16" Chain Saw Rental For Emergency Clean-up.....	541.99	
02 90 55 00-0054	DAY		20" Chain Saw Rental For Emergency Clean-up.....	112.91	
02 90 55 00-0055	WK		20" Chain Saw Rental For Emergency Clean-up.....	254.06	
02 90 55 00-0056	MO		20" Chain Saw Rental For Emergency Clean-up.....	677.48	
02 90 55 00-0057	EA		Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up.....	84.69	
02 90 55 00-0058	DAY		14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	120.44	
02 90 55 00-0059	WK		14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	329.33	
02 90 55 00-0060	MO		14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up.....	922.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
02 90 55 00-0061	DAY			12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	146.79		
02 90 55 00-0062	WK			12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	498.70		
02 90 55 00-0063	MO			12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	950.36		
02 90 55 00-0064	DAY			Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	134.80		
02 90 55 00-0065	DAY			Extension Cords - 220 Volt For Emergency Clean-up	47.05		
02 90 55 00-0066	DAY			Extension Cords - 220 Volt Converter Box For Emergency Clean-up	28.23		
02 90 55 00-0067	DAY			Demolition Cart, 7 Yard For Emergency Clean-up.....	71.37		
02 90 55 00-0068	EA			Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up	141.14		
02 90 55 00-0069	DAY			Dry-Ice Blasting System For Emergency Clean-up.....	1,524.11		
02 90 55 00-0070	DAY			Fogger - Mist For Emergency Clean-up.....	39.65		
02 90 55 00-0071	DAY			Fogger - Electric Thermal For Emergency Clean-up	57.09		
02 90 55 00-0072	DAY			Fogger - Gas Power Thermal For Emergency Clean-up	153.36		
02 90 55 00-0073	EA			Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	188.80		
02 90 55 00-0074	DAY			Hand Trucks/Dollies For Emergency Clean-up.....	22.58		
02 90 55 00-0075	DAY			Heat Gun - Shrink Wrap For Emergency Clean-up.....	117.42		
02 90 55 00-0076	DAY			High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up.....	166.14		
				Note: Includes all filters.			
02 90 55 00-0077	DAY			Ladder For Emergency Clean-up.....	31.99		
02 90 55 00-0078	DAY			Lights - Demo, Drop, Stand, String For Emergency Clean-up	28.55		
02 90 55 00-0079	DAY			Lights - Wobble For Emergency Clean-up	34.89		
02 90 55 00-0080	DAY			Moisture Meter For Emergency Clean-up.....	47.58		
02 90 55 00-0081	DAY			Nail Gun For Emergency Clean-up.....	84.69		
02 90 55 00-0082	DAY			Ozone Generator For Emergency Clean-up	198.24		
02 90 55 00-0083	DAY			PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up	112.91		
02 90 55 00-0084	DAY			Portable Generator, Up To 7,500 Watt For Emergency Clean-up	158.59		
02 90 55 00-0085	DAY			Pressure Washer, Hot For Emergency Clean-up.....	237.89		
02 90 55 00-0086	DAY			Pressure Washer, Cold For Emergency Clean-up	158.59		
02 90 55 00-0087	DAY			Scaffolding - Per Section For Emergency Clean-up	122.32		
02 90 55 00-0088	DAY			Small Tools - Tool Box For Emergency Clean-up.....	47.05		
02 90 55 00-0089	DAY			Soda Blasting Equipment For Emergency Clean-up.....	1,512.37		
02 90 55 00-0090	DAY			Sprayer - Hudson For Emergency Clean-up.....	15.06		
02 90 55 00-0091	DAY			0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	127.60		
02 90 55 00-0092	DAY			Storage Space (Per SF Per Day) For Emergency Clean-up.....	3.65		
02 90 55 00-0093	DAY			Submersible Pump For Emergency Clean-up.....	39.65		
02 90 55 00-0094	DAY			Trash Pump - 2" Gas Powered For Emergency Clean-up	217.62		
02 90 55 00-0095	DAY			Vehicle, Pick-up, SUV, Car For Emergency Clean-up	108.03		
02 90 55 00-0096	DAY			Vehicle, Van For Emergency Clean-up.....	176.13		
02 90 55 00-0097	DAY			16' Or 24' Box Truck Vehicle For Emergency Clean-up.....	213.01		
				Note: Includes Mileage			
02 90 55 00-0098	DAY			Trailer - Refrigerated 40' Storage For Emergency Clean-up.....	234.06		
02 90 55 00-0099	DAY			Utility Trailer For Emergency Clean-up.....	194.92		
				Note: Includes Mileage			
02 90 55 00-0100	DAY			Truck Mount, Per Wand Extraction For Emergency Clean-up	879.08		
02 90 55 00-0101	DAY			High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	39.65		
02 90 55 00-0102	DAY			Vacuum - Shop Vacuum For Emergency Clean-up	39.65		
02 90 55 00-0103	DAY			Vacuum - Commercial For Emergency Clean-up	118.94		
02 90 55 00-0104	DAY			12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	134.80		
02 90 55 00-0105	DAY			Vacuum - Upright For Emergency Clean-up	25.83		
02 90 55 00-0106	DAY			Zip Walls (Per 2 Poles) For Emergency Clean-up	39.65		
02 90 55 00-0107	DAY			2 Way Radio For Emergency Clean-up	31.72		
02 90 55 00-0108	Technical/Electronics Restoration Equipment (02 90 55 00-0022)						
02 90 55 00-0109	DAY			Computer - Diagnostic For Emergency Clean-up	47.05		
02 90 55 00-0110	WK			Computer - Diagnostic For Emergency Clean-up	129.38		
02 90 55 00-0111	MO			Computer - Diagnostic For Emergency Clean-up	352.86		
02 90 55 00-0112	DAY			Convection Oven - Large For Emergency Clean-up	683.38		
02 90 55 00-0113	WK			Convection Oven - Large For Emergency Clean-up	1,879.31		
02 90 55 00-0114	MO			Convection Oven - Large For Emergency Clean-up	5,125.38		
02 90 55 00-0115	DAY			Convection Oven - Small For Emergency Clean-up	169.37		
02 90 55 00-0116	WK			Convection Oven - Small For Emergency Clean-up	465.77		
02 90 55 00-0117	MO			Convection Oven - Small For Emergency Clean-up	1,270.28		
02 90 55 00-0118	DAY			Convection Oven - Vacuum For Emergency Clean-up	975.37		
02 90 55 00-0119	WK			Convection Oven - Vacuum For Emergency Clean-up	2,682.26		
02 90 55 00-0120	MO			Convection Oven - Vacuum For Emergency Clean-up	7,315.27		
02 90 55 00-0121	DAY			Decontamination Booth For Emergency Clean-up.....	806.28		
02 90 55 00-0122	WK			Decontamination Booth For Emergency Clean-up.....	2,217.28		
02 90 55 00-0123	MO			Decontamination Booth For Emergency Clean-up.....	6,047.13		
02 90 55 00-0124	DAY			DI Water System For Emergency Clean-up.....	62.62		
02 90 55 00-0125	WK			DI Water System For Emergency Clean-up.....	172.22		
02 90 55 00-0126	MO			DI Water System For Emergency Clean-up.....	469.68		
02 90 55 00-0127	DAY			ESD Bench Workstation For Emergency Clean-up	38.36		
02 90 55 00-0128	WK			ESD Bench Workstation For Emergency Clean-up	105.48		
02 90 55 00-0129	MO			ESD Bench Workstation For Emergency Clean-up	287.68		
02 90 55 00-0130	DAY			Heater/Enclosure Control System For Emergency Clean-up.....	28.23		
02 90 55 00-0131	WK			Heater/Enclosure Control System For Emergency Clean-up.....	77.63		
02 90 55 00-0132	MO			Heater/Enclosure Control System For Emergency Clean-up.....	211.71		
02 90 55 00-0133	DAY			Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	98.63		
02 90 55 00-0134	WK			Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	271.24		
02 90 55 00-0135	MO			Hi-Tech Mobile Cart/Workstation For Emergency Clean-up.....	739.75		
02 90 55 00-0136	DAY			Micro-Blaster/Dust Collector For Emergency Clean-up.....	423.43		

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0137	WK		Micro-Blaster/Dust Collector For Emergency Clean-up	1,164.43	
02 90 55 00-0138	MO		Micro-Blaster/Dust Collector For Emergency Clean-up	3,175.71	
02 90 55 00-0139	DAY		Mobile Laboratory For Emergency Clean-up	1,176.19	
02 90 55 00-0140	WK		Mobile Laboratory For Emergency Clean-up	3,234.52	
02 90 55 00-0141	MO		Mobile Laboratory For Emergency Clean-up	8,821.41	
02 90 55 00-0142	DAY		Nitrogen Enclosure Cabinet For Emergency Clean-up	22.58	
02 90 55 00-0143	WK		Nitrogen Enclosure Cabinet For Emergency Clean-up	62.10	
02 90 55 00-0144	MO		Nitrogen Enclosure Cabinet For Emergency Clean-up	169.37	
02 90 55 00-0145	DAY		Odell Cleaning Station For Emergency Clean-up	658.66	
02 90 55 00-0146	WK		Odell Cleaning Station For Emergency Clean-up	1,811.33	
02 90 55 00-0147	MO		Odell Cleaning Station For Emergency Clean-up	4,939.99	
02 90 55 00-0148	DAY		Parts Washer For Emergency Clean-up	47.05	
02 90 55 00-0149	WK		Parts Washer For Emergency Clean-up	129.38	
02 90 55 00-0150	MO		Parts Washer For Emergency Clean-up	352.86	
02 90 55 00-0151	DAY		Ultrasonic Cleaning System For Emergency Clean-up	293.55	
02 90 55 00-0152	WK		Ultrasonic Cleaning System For Emergency Clean-up	807.26	
02 90 55 00-0153	MO		Ultrasonic Cleaning System For Emergency Clean-up	2,201.62	
02 90 55 00-0154	DAY		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	125.69	
02 90 55 00-0155	WK		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	345.65	
02 90 55 00-0156	MO		Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	942.68	
02 90 55 00-0157 Drying/Dehumidification Equipment (02 90 55 00-0022)					
02 90 55 00-0158	DAY		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	198.24	
02 90 55 00-0159	WK		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	545.16	
02 90 55 00-0160	MO		202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up..... Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.	1,486.80	
02 90 55 00-0161	DAY		2,200 CFM Centrifugal Air Mover For Emergency Clean-up	46.25	
02 90 55 00-0162	WK		2,200 CFM Centrifugal Air Mover For Emergency Clean-up	127.19	
02 90 55 00-0163	MO		2,200 CFM Centrifugal Air Mover For Emergency Clean-up	346.89	
02 90 55 00-0164	DAY		3,000 CFM Axial Air Mover For Emergency Clean-up	77.09	
02 90 55 00-0165	WK		3,000 CFM Axial Air Mover For Emergency Clean-up	211.99	
02 90 55 00-0166	MO		3,000 CFM Axial Air Mover For Emergency Clean-up	578.16	
02 90 55 00-0167	DAY		Injectidry System For Emergency Clean-up	245.82	
02 90 55 00-0168	WK		Injectidry System For Emergency Clean-up	676.00	
02 90 55 00-0169	MO		Injectidry System For Emergency Clean-up	1,843.63	
02 90 55 00-0170	DAY		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	158.59	
02 90 55 00-0171	WK		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	436.13	
02 90 55 00-0172	MO		Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,189.44	
02 90 55 00-0173	DAY		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	235.24	
02 90 55 00-0174	WK		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	646.90	
02 90 55 00-0175	MO		>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,764.28	
02 90 55 00-0176	DAY		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	219.01	
02 90 55 00-0177	WK		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	602.27	
02 90 55 00-0178	MO		>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up.....	1,642.56	
02 90 55 00-0179	DAY		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	234.11	
02 90 55 00-0180	WK		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	643.81	
02 90 55 00-0181	MO		Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	1,755.84	
02 90 55 00-0182	DAY		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	234.11	
02 90 55 00-0183	WK		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	643.81	
02 90 55 00-0184	MO		Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	1,755.84	
02 90 55 00-0185	DAY		D-500 Desiccant Dehumidifier For Emergency Clean-up	264.32	
02 90 55 00-0186	WK		D-500 Desiccant Dehumidifier For Emergency Clean-up	726.88	
02 90 55 00-0187	MO		D-500 Desiccant Dehumidifier For Emergency Clean-up	1,982.40	
02 90 55 00-0188	DAY		D-750 Desiccant Dehumidifier For Emergency Clean-up	555.07	
02 90 55 00-0189	WK		D-750 Desiccant Dehumidifier For Emergency Clean-up	1,526.45	
02 90 55 00-0190	MO		D-750 Desiccant Dehumidifier For Emergency Clean-up	4,163.04	
02 90 55 00-0191	DAY		D-1000 Desiccant Dehumidifier For Emergency Clean-up	951.55	
02 90 55 00-0192	WK		D-1000 Desiccant Dehumidifier For Emergency Clean-up	2,616.77	
02 90 55 00-0193	MO		D-1000 Desiccant Dehumidifier For Emergency Clean-up	7,136.64	
02 90 55 00-0194	DAY		D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,465.09	
02 90 55 00-0195	WK		D-1500 Desiccant Dehumidifier For Emergency Clean-up	4,028.99	
02 90 55 00-0196	MO		D-1500 Desiccant Dehumidifier For Emergency Clean-up	10,988.16	
02 90 55 00-0197	DAY		D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,465.09	
02 90 55 00-0198	WK		D-2000 Desiccant Dehumidifier For Emergency Clean-up	4,028.99	
02 90 55 00-0199	MO		D-2000 Desiccant Dehumidifier For Emergency Clean-up	10,988.16	
02 90 55 00-0200	DAY		D-2250 Desiccant Dehumidifier For Emergency Clean-up	1,530.04	
02 90 55 00-0201	WK		D-2250 Desiccant Dehumidifier For Emergency Clean-up	4,207.60	
02 90 55 00-0202	MO		D-2250 Desiccant Dehumidifier For Emergency Clean-up	11,475.26	
02 90 55 00-0203	DAY		D-3000 Desiccant Dehumidifier For Emergency Clean-up	1,903.10	
02 90 55 00-0204	WK		D-3000 Desiccant Dehumidifier For Emergency Clean-up	5,233.54	
02 90 55 00-0205	MO		D-3000 Desiccant Dehumidifier For Emergency Clean-up	14,273.28	
02 90 55 00-0206	DAY		D-4500 Desiccant Dehumidifier For Emergency Clean-up	2,140.99	
02 90 55 00-0207	WK		D-4500 Desiccant Dehumidifier For Emergency Clean-up	5,887.73	
02 90 55 00-0208	MO		D-4500 Desiccant Dehumidifier For Emergency Clean-up	16,057.44	
02 90 55 00-0209	DAY		D-5000 Desiccant Dehumidifier For Emergency Clean-up	2,299.58	
02 90 55 00-0210	WK		D-5000 Desiccant Dehumidifier For Emergency Clean-up	6,323.86	
02 90 55 00-0211	MO		D-5000 Desiccant Dehumidifier For Emergency Clean-up	17,246.88	
02 90 55 00-0212	DAY		D-9000 Desiccant Dehumidifier For Emergency Clean-up	3,020.80	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0213	WK			D-9000 Desiccant Dehumidifier For Emergency Clean-up	8,307.20	
02 90 55 00-0214	MO			D-9000 Desiccant Dehumidifier For Emergency Clean-up	22,656.00	
02 90 55 00-0215	DAY			D-10500 Desiccant Dehumidifier For Emergency Clean-up	3,171.84	
02 90 55 00-0216	WK			D-10500 Desiccant Dehumidifier For Emergency Clean-up	8,722.56	
02 90 55 00-0217	MO			D-10500 Desiccant Dehumidifier For Emergency Clean-up	23,788.80	
02 90 55 00-0218	DAY			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	515.42	
02 90 55 00-0219	WK			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,417.42	
02 90 55 00-0220	MO			3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,865.68	
02 90 55 00-0221	DAY			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	713.66	
02 90 55 00-0222	WK			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,962.58	
02 90 55 00-0223	MO			5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,352.48	
02 90 55 00-0224	DAY			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	951.55	
02 90 55 00-0225	WK			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,616.77	
02 90 55 00-0226	MO			10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,136.64	
02 90 55 00-0227	DAY			25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,268.74	
02 90 55 00-0228	WK			25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,489.02	
02 90 55 00-0229	MO			25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	9,515.52	
02 90 55 00-0230	DAY			50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,140.99	
02 90 55 00-0231	WK			50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	5,887.73	
02 90 55 00-0232	MO			50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	16,057.44	
02 90 55 00-0233	DAY			80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,378.88	
02 90 55 00-0234	WK			80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,541.92	
02 90 55 00-0235	MO			80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	17,841.60	
02 90 55 00-0236	DAY			25' Flex Duct For Emergency Clean-up.....	31.72	
02 90 55 00-0237	WK			25' Flex Duct For Emergency Clean-up.....	87.23	
02 90 55 00-0238	MO			25' Flex Duct For Emergency Clean-up.....	237.89	
02 90 55 00-0239	DAY			Hygrothermograph For Emergency Clean-up.....	47.05	
02 90 55 00-0240	WK			Hygrothermograph For Emergency Clean-up.....	129.38	
02 90 55 00-0241	MO			Hygrothermograph For Emergency Clean-up.....	352.86	
02 90 55 00-0242	DAY			Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up	7,455.20	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0243	WK			Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up	20,501.79	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0244	MO			Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up	55,913.98	
				Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0245 Power Equipment (02 90 55 00-0022)						
02 90 55 00-0246	WK			Up to 65 KVA Generator For Emergency Clean-up	981.76	
02 90 55 00-0247	WK			>65 to 125 KVA Generator For Emergency Clean-up	1,661.44	
02 90 55 00-0248	WK			>125 to 250 KVA Generator For Emergency Clean-up	1,618.84	
02 90 55 00-0249	WK			>250 to 375 KVA Generator For Emergency Clean-up.....	2,794.24	
02 90 55 00-0250	WK			>375 Up to 440 KVA Generator For Emergency Clean-up.....	3,776.00	
02 90 55 00-0251	WK			>440 to 625 KVA Generator For Emergency Clean-up.....	5,680.15	
02 90 55 00-0252	WK			>625 to 800 KVA Generator For Emergency Clean-up.....	5,815.04	
02 90 55 00-0253	WK			>800 to 1,000 KVA Generator For Emergency Clean-up.....	7,778.56	
02 90 55 00-0254	WK			>1,000 to 1,500 KVA Generator For Emergency Clean-up.....	11,705.60	
02 90 55 00-0255	EA			Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	25.37	
02 90 55 00-0256	EA			Sub-Distribution Panel (Spider Box) For Emergency Clean-up	121.59	
02 90 55 00-0257	EA			Electrical Distribution Panel For Emergency Clean-up	293.55	
02 90 55 00-0258	EA			Quad Box Strings (25' Sections) For Emergency Clean-up.....	45.69	
02 90 55 00-0259	EA			50' Power Cord For Spider Box For Emergency Clean-up.....	42.29	
02 90 55 00-0260	EA			Pig Tails (Per Each) For Emergency Clean-up.....	4.70	
02 90 55 00-0261 Freight Charges (02 90 55 00-0022)						
02 90 55 00-0262	MI			Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment	2.35	
02 90 55 00-0263	MI			Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment	4.23	
02 90 55 00-0264	MI			Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment	4.23	
02 90 55 00-0265	MI			Freight Tractor Trailer For Emergency Clean-up Equipment	6.12	
02 90 55 00-0266 Emergency Clean-up Personal Protection Equipment (02 90 55 00-0001)						
				Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0267	EA			Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment	13.13	
02 90 55 00-0268	EA			Respirator Cartridge For Emergency Clean-up Personal Protection Equipment	45.86	
02 90 55 00-0269	BOX			Dust Mask For Emergency Clean-up Personal Protection Equipment.....	51.13	
02 90 55 00-0270	PR			Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	3.52	
02 90 55 00-0271	BOX			5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment	23.79	
02 90 55 00-0272	PR			Leather Gloves For Emergency Clean-up Personal Protection Equipment	11.90	
02 90 55 00-0273	EA			Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment	20.31	
02 90 55 00-0274	PR			Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	13.92	
02 90 55 00-0275	EA			Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment	101.30	
02 90 55 00-0276	PR			Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	6.10	
02 90 55 00-0277	EA			Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment	7.93	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**02 90 55 00-0278****Emergency Clean-up Expendables** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0279**General Materials** (02 90 55 00-0278)

02 90 55 00-0280	GAL	Adhesive Remover For Emergency Clean-up.....	95.16
02 90 55 00-0281	GAL	Bio-HS For Emergency Clean-up.....	32.08
02 90 55 00-0282	GAL	Biocide For Emergency Clean-up.....	40.94
02 90 55 00-0283	EA	10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	5.01
02 90 55 00-0284	EA	10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....	7.61
02 90 55 00-0285	GAL	Bleach For Emergency Clean-up.....	10.23
02 90 55 00-0286	EA	Small Stainless Brush For Emergency Clean-up.....	6.26
02 90 55 00-0287	EA	2-1/2 Gallon Buckets For Emergency Clean-up.....	7.95
02 90 55 00-0288	EA	5 Gallon Bucket For Emergency Clean-up.....	12.04
02 90 55 00-0289	GAL	Carpet Defoamer For Emergency Clean-up.....	30.98
02 90 55 00-0290	GAL	Carpet Pre-treat For Emergency Clean-up.....	23.17
02 90 55 00-0291	GAL	Carpet Spotter For Emergency Clean-up.....	38.83
02 90 55 00-0292	GAL	Carpet/Upholstery Cleaner For Emergency Clean-up.....	31.31
02 90 55 00-0293	ROL	Carpet Masking/Shield For Emergency Clean-up.....	86.86
02 90 55 00-0294	EA	Chemical Sponge For Emergency Clean-up.....	3.75
02 90 55 00-0295	GAL	Clear Seal For Emergency Clean-up.....	127.94
02 90 55 00-0296	GAL	Coil Cleaner For Emergency Clean-up.....	59.81
02 90 55 00-0297	EA	Comfort Masks, Per Box 50 For Emergency Clean-up Personal Protection Equipment.....	43.95
02 90 55 00-0298	EA	Hooded Coverall With Elastic Wrists/Ankles For Emergency Clean-up Personal Protection Equipment.....	19.44
02 90 55 00-0299	EA	Decontamination Chamber For Emergency Clean-up.....	260.09
02 90 55 00-0300	GAL	All Purpose Degreaser For Emergency Clean-up.....	41.87
02 90 55 00-0301	GAL	De-Foamer Liquid For Emergency Clean-up.....	55.03
02 90 55 00-0302	EA	Deodorization Membrane For Emergency Clean-up.....	107.89
02 90 55 00-0303	GAL	9-D-9 Smoke Deodorizer For Emergency Clean-up.....	164.49
02 90 55 00-0304	LB	Deodorizing Gel For Emergency Clean-up.....	38.64
02 90 55 00-0305	GAL	Deodorizing Liquid For Emergency Clean-up.....	57.21
02 90 55 00-0306	PAIL	Deodorizing Block For Emergency Clean-up.....	9.71
02 90 55 00-0307	GAL	Disinfectant/Antimicrobial For Emergency Clean-up.....	100.27
02 90 55 00-0308	GAL	BruClean Disinfectant For Emergency Clean-up.....	30.45
02 90 55 00-0309	GAL	Dryclean For Emergency Clean-up.....	44.95
02 90 55 00-0310	GAL	Duct Sealant Spray For Emergency Clean-up.....	67.75
02 90 55 00-0311	GAL	Antifungal Duct Sealant For Emergency Clean-up.....	97.86
02 90 55 00-0312	GAL	Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up.....	148.33
02 90 55 00-0313	PR	Ear Plugs For Emergency Clean-up Personal Protection Equipment.....	0.61
02 90 55 00-0314	GAL	Encapsulant For Emergency Clean-up.....	102.70
02 90 55 00-0315	GAL	AfterShock Fiberlocke For Emergency Clean-up.....	90.18
02 90 55 00-0316	GAL	IAQ 2500 Fiberlocke For Emergency Clean-up.....	116.20
02 90 55 00-0317	GAL	IAS 6000 Fiberlocke For Emergency Clean-up.....	119.51
02 90 55 00-0318	ROL	Filter Material For Emergency Clean-up.....	233.27
02 90 55 00-0319	EA	Blue Paper Collection Bag Filter For Emergency Clean-up.....	6.28
02 90 55 00-0320	EA	CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	498.92
02 90 55 00-0321	EA	Pre-Filter For Negative Air Machine For Emergency Clean-up.....	2.39
02 90 55 00-0322	EA	Pleated Filter For Negative Air Machine For Emergency Clean-up.....	10.66
02 90 55 00-0323	EA	Charcoal Filter For Negative Air Machine For Emergency Clean-up.....	37.94
02 90 55 00-0324	EA	High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up.....	360.85
02 90 55 00-0325	EA	Pleated Dehumidifier Filter For Emergency Clean-up.....	9.52
02 90 55 00-0326	GAL	Floor Stripper For Emergency Clean-up.....	21.08
02 90 55 00-0327	GAL	Floor Wax For Emergency Clean-up.....	30.11
02 90 55 00-0328	GAL	Fogger (Thermal) For Emergency Clean-up.....	174.46
02 90 55 00-0329	BOX	Furniture Blocks For Emergency Clean-up.....	140.52
02 90 55 00-0330	EA	Furniture Polish, Per 10 Oz Can For Emergency Clean-up.....	18.93
02 90 55 00-0331	GAL	Glass Cleaner For Emergency Clean-up.....	12.63
02 90 55 00-0332	PR	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	22.96
02 90 55 00-0333	EA	Goof Off Spray, 12 Oz For Emergency Clean-up.....	15.10
02 90 55 00-0334	EA	Halogen Light Bulbs For Emergency Clean-up.....	21.50
02 90 55 00-0335	QT	Hand Sanitizer For Emergency Clean-up.....	10.63
02 90 55 00-0336	EA	Hard Hats For Emergency Clean-up Personal Protection Equipment.....	8.75
02 90 55 00-0337	BOX	Hog Rings, Box Of 2,500 For Emergency Clean-up.....	18.40
02 90 55 00-0338	GAL	HVAC Coil Cleaner For Emergency Clean-up.....	59.81
02 90 55 00-0339	BOX	Inventory Tag, Box Of 1,000 For Emergency Clean-up.....	129.45
02 90 55 00-0340	EA	Utility Knives For Emergency Clean-up.....	16.56
02 90 55 00-0341	ROL	13" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	111.04
02 90 55 00-0342	ROL	20" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	117.23
02 90 55 00-0343	ROL	29" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	233.41
02 90 55 00-0344	ROL	39" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	337.38
02 90 55 00-0345	GAL	Lemon Oil For Emergency Clean-up.....	50.75
02 90 55 00-0346	GAL	LPS 1/Mecca Lube For Emergency Clean-up.....	54.71
02 90 55 00-0347	GAL	LPS 2 For Emergency Clean-up.....	57.90
02 90 55 00-0348	GAL	LPS Contact Cleaner For Emergency Clean-up.....	57.63
02 90 55 00-0349	GAL	Light Lubricant Preserver For Emergency Clean-up.....	135.13
02 90 55 00-0350	GAL	Heavy Lubricant Preserver For Emergency Clean-up.....	30.11
02 90 55 00-0351	GAL	Machinery Cleaning Solvent For Emergency Clean-up.....	242.97
02 90 55 00-0352	GAL	Metal Polishing Paste For Emergency Clean-up.....	25.01
02 90 55 00-0353	GAL	MediClean® Disinfectant For Emergency Clean-up.....	60.85
02 90 55 00-0354	GAL	Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up.....	74.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0355 EA Mop Heads For Emergency Clean-up	9.01	
02 90 55 00-0356 EA Nylon Scouring Pads For Emergency Clean-up	1.66	
02 90 55 00-0357 GAL Odor Neutralizer For Emergency Clean-up.....	38.83	
02 90 55 00-0358 EA Packing Paper, 25 LB Bundle For Emergency Clean-up	67.32	
02 90 55 00-0359 EA Paint Brushes For Emergency Clean-up	7.53	
02 90 55 00-0360 ROL Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up.....	156.98	
02 90 55 00-0361 EA Putty Knives For Emergency Clean-up.....	6.82	
02 90 55 00-0362 ROL Red Resin Paper, 200' Roll For Emergency Clean-up.....	34.26	
02 90 55 00-0363 GAL Reodorant For Emergency Clean-up.....	127.97	
02 90 55 00-0364 EA N95 Respirator For Emergency Clean-up Personal Protection Equipment	4.38	
02 90 55 00-0365 EA N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment	6.80	
02 90 55 00-0366 PR 3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	45.65	
02 90 55 00-0367 PR P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	45.65	
02 90 55 00-0368 EA Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment	36.52	
02 90 55 00-0369 GAL Restoracide For Emergency Clean-up.....	60.03	
02 90 55 00-0370 GAL Rust Remover For Emergency Clean-up.....	88.81	
02 90 55 00-0371 EA Saltesmo Test Samples For Emergency Clean-up.....	8.25	
02 90 55 00-0372 EA Sand Bag For Emergency Clean-up	2.16	
Note: Excludes sand material		
02 90 55 00-0373 EA Scotch-Brite 7447, Per Box 50 For Emergency Clean-up.....	26.96	
02 90 55 00-0374 EA Small Scrub Brushes For Emergency Clean-up	14.40	
02 90 55 00-0375 GAL Clear Soot Sealant For Emergency Clean-up.....	103.00	
02 90 55 00-0376 GAL Pigmented Soot Sealant For Emergency Clean-up	277.77	
02 90 55 00-0377 ROL Shrinkwrap Plastic For Emergency Clean-up	63.94	
02 90 55 00-0378 EA Dry Sponges For Emergency Clean-up	5.01	
02 90 55 00-0379 EA Spray Adhesive, Per Can For Emergency Clean-up.....	6.67	
02 90 55 00-0380 EA Spray Bot./Trigger For Emergency Clean-up	5.81	
02 90 55 00-0381 GAL Stain Remover For Emergency Clean-up.....	35.07	
02 90 55 00-0382 GAL Stainless Steel Cleaner For Emergency Clean-up.....	12.57	
02 90 55 00-0383 EA Stainless Steel Polish, Per Can For Emergency Clean-up	16.49	
02 90 55 00-0384 LB Sweeping Compound For Emergency Clean-up.....	0.55	
02 90 55 00-0385 ROL Duct Tape, 2" x 50 YD For Emergency Clean-up	13.05	
02 90 55 00-0386 ROL Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up	12.28	
02 90 55 00-0387 ROL HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up.....	33.12	
02 90 55 00-0388 ROL Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up.....	17.47	
02 90 55 00-0389 ROL Poly Box Tape, 2" x 110 YD For Emergency Clean-up.....	5.39	
02 90 55 00-0390 LB Terry Towels For Emergency Clean-up	7.75	
02 90 55 00-0391 GAL Thermal Fog For Emergency Clean-up	78.91	
02 90 55 00-0392 ROL Lawn And Leaf Trash Bags For Emergency Clean-up.....	40.60	
02 90 55 00-0393 ROL 6 Mil Heavy Duty Trash Bags (50 Count) For Emergency Clean-up.....	161.91	
02 90 55 00-0394 EA Trisodium Phosphate, 20 LB Pail For Emergency Clean-up.....	54.94	
02 90 55 00-0395 EA Backpack Vacuum Bags For Emergency Clean-up	1.85	
02 90 55 00-0396 EA Upright Vacuum Bags For Emergency Clean-up	2.47	
02 90 55 00-0397 GAL Vinyl And Leather Cleaner For Emergency Clean-up.....	31.31	
02 90 55 00-0398 ROL 1 Mil Visqueen, 12' x 400', For Emergency Clean-up	52.60	
02 90 55 00-0399 ROL 4 Mil Visqueen, 32' x 100', For Emergency Clean-up	142.82	
02 90 55 00-0400 ROL 6 Mil Visqueen, 32' x 400', For Emergency Clean-up.....	194.88	
02 90 55 00-0401 LB Wipes, Cotton Cloth For Emergency Clean-up	5.52	
02 90 55 00-0402 ROL 12" x 750', Wrap, Bubble/Anti-Static For Emergency Clean-up	160.40	
02 90 55 00-0403 EA Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up.....	15.66	
02 90 55 00-0404 EA Zip Wall Zippers For Emergency Clean-up	24.35	
02 90 55 00-0405	Technical/Electronics Restoration Materials	<i>(02 90 55 00-0278)</i>
02 90 55 00-0406 EA Brush - Brass For Emergency Clean-up	5.65	
02 90 55 00-0407 EA 1" Brush, Natural Bristle For Emergency Clean-up.....	1.81	
02 90 55 00-0408 EA 1/2" Brush, Natural Bristle For Emergency Clean-up.....	1.51	
02 90 55 00-0409 EA 1/4" Brush, Natural Bristle For Emergency Clean-up.....	1.28	
02 90 55 00-0410 EA Brush - Parts For Emergency Clean-up.....	7.83	
02 90 55 00-0411 EA Brush - Plastic For Emergency Clean-up.....	4.06	
02 90 55 00-0412 EA Brush - Wire Grout For Emergency Clean-up.....	8.22	
02 90 55 00-0413 EA Brushing Tool For Emergency Clean-up.....	15.85	
02 90 55 00-0414 EA Cleaning Swabs, Cotton For Emergency Clean-up	0.38	
02 90 55 00-0415 EA Cleaning Swabs, Foam Tip For Emergency Clean-up.....	0.45	
02 90 55 00-0416 EA Contact Restorer, Per Can For Emergency Clean-up.....	34.23	
02 90 55 00-0417 EA Contact Spray, Per Can For Emergency Clean-up.....	23.29	
02 90 55 00-0418 UNT Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up	3.61	
02 90 55 00-0419 UNT Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up.....	10.35	
02 90 55 00-0420 UNT Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up	13.41	
02 90 55 00-0421 LB Cotton Cleaning Cloths For Emergency Clean-up.....	21.17	
02 90 55 00-0422 EA 12" x 17" Dust Cloths For Emergency Clean-up.....	0.33	
02 90 55 00-0423 EA 24" x 24" Dust Cloths For Emergency Clean-up.....	0.93	
02 90 55 00-0424 EA Deoxidizing Agent, Per Can For Emergency Clean-up.....	16.58	
02 90 55 00-0425 GAL Electronic Grade Detergent For Emergency Clean-up	35.23	
02 90 55 00-0426 SHT Inventory Labels For Emergency Clean-up.....	0.19	
02 90 55 00-0427 GAL Isopropyl Alcohol For Emergency Clean-up.....	93.35	
02 90 55 00-0428 GAL Lubrication/Penetrating Oil, Per Can For Emergency Clean-up.....	136.12	
02 90 55 00-0429 GAL PC Board Detergent For Emergency Clean-up.....	96.68	
02 90 55 00-0430 GAL Rust Inhibitor, Regular Duty For Emergency Clean-up.....	157.01	
02 90 55 00-0431 GAL Rust Inhibitor, Moderate Duty For Emergency Clean-up	158.18	
02 90 55 00-0432 GAL Rust Inhibitor, Severe Duty For Emergency Clean-up.....	169.08	

02 Existing Conditions

02 90 Disaster Recovery

02 90 55 Emergency Clean-up



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
02 90 55 00-0433	LB	Wipes, Lint Free Cloths For Emergency Clean-up.....	5.93	
02 90 55 00-0434	EA	Wire Marker Card For Emergency Clean-up.....	2.63	
02 90 55 00-0435	EA	Steel Wool, 16 Pad Sleeve For Emergency Clean-up	1.33	

END OF SECTION 02



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 Metals

05 05 Common Work Results for Metals (05)

05 05 19 Post-Installed Concrete Anchors (05 05)

- 05 05 19 00-0001 Concrete And Masonry Anchors (05 05 19)
- 05 05 19 00-0002 Expansion Anchors (05 05 19 00-0001)
Note: Includes drilling.
- 05 05 19 00-0003 Wedge Expansion Bolt Anchors (05 05 19 00-0002)
- 05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)
Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.23	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.17	
	For >100, Deduct	-2.34	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.34	
	For >10 To 50, Deduct	-0.58	
	For >50 To 100, Deduct	-1.17	
	For >100, Deduct	-2.35	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.72	
	For >10 To 50, Deduct	-0.59	
	For >50 To 100, Deduct	-1.21	
	For >100, Deduct	-2.42	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.01	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.09	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.11	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.43	
	For >100, Deduct	-2.86	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.42	
	For >10 To 50, Deduct	-0.70	
	For >50 To 100, Deduct	-1.44	
	For >100, Deduct	-2.88	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.72	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.04	
	For >100, Deduct	-4.08	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.78	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.04	
	For >100, Deduct	-4.09	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	21.91	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.05	
	For >100, Deduct	-4.09	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.26	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.06	
	For >100, Deduct	-4.11	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.73	
	For >10 To 50, Deduct	-1.00	
	For >50 To 100, Deduct	-2.07	
	For >100, Deduct	-4.13	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.17	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.55	
	For >100, Deduct	-5.11	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.27	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.56	
	For >100, Deduct	-5.11	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.49	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.56	
	For >100, Deduct	-5.12	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.91	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.57	
	For >100, Deduct	-5.14	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.33	
	For >10 To 50, Deduct	-1.23	
	For >50 To 100, Deduct	-2.58	
	For >100, Deduct	-5.17	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.67	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.67	
			<i>For >100, Deduct</i>	-5.33	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.54	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.74	
			<i>For >100, Deduct</i>	-5.48	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.98	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.10	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.07	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.11	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.58	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.07	
			<i>For >100, Deduct</i>	-6.13	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.20	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.08	
			<i>For >100, Deduct</i>	-6.16	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	35.90	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100, Deduct</i>	-6.20	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	38.58	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.17	
			<i>For >100, Deduct</i>	-6.33	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	42.14	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.25	
			<i>For >100, Deduct</i>	-6.51	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	46.15	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.36	
			<i>For >100, Deduct</i>	-6.71	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.09	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.52	
			<i>For >100, Deduct</i>	-7.03	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	47.20	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.57	
			<i>For >100, Deduct</i>	-7.14	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	50.00	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.64	
			<i>For >100, Deduct</i>	-7.28	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	55.94	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.49	
			<i>For >100, Deduct</i>	-8.98	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.92	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.59	
			<i>For >100, Deduct</i>	-9.18	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.86	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-4.69	
			<i>For >100, Deduct</i>	-9.37	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	72.81	
			<i>For >10 To 50, Deduct</i>	-2.64	
			<i>For >50 To 100, Deduct</i>	-5.78	
			<i>For >100, Deduct</i>	-11.55	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	75.66	
			<i>For >10 To 50, Deduct</i>	-2.64	
			<i>For >50 To 100, Deduct</i>	-5.85	
			<i>For >100, Deduct</i>	-11.70	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.28	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.40	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.69	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.24	
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.25	
<i>For >100, Deduct</i>	-2.49	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.96	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.96	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.31	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.97	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.55	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.49	
<i>For >100, Deduct</i>	-2.98	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.43	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.08	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.08	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100, Deduct</i>	-4.30	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.73	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	27.11	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100, Deduct</i>	-4.35	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.83	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.22	
<i>For >100, Deduct</i>	-4.44	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.41	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100, Deduct</i>	-4.57	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.03	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.78	
<i>For >100, Deduct</i>	-5.55	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.71	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.82	
<i>For >100, Deduct</i>	-5.63	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.52	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100, Deduct</i>	-5.73	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.94	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.92	
<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.53	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-3.19	
<i>For >100, Deduct</i>	-6.38	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.20	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.31	
<i>For >100, Deduct</i>	-6.61	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.61	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.39	
<i>For >100, Deduct</i>	-6.78	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.52	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.46	
<i>For >100, Deduct</i>	-6.93	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.88	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.47	
<i>For >100, Deduct</i>	-6.95	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.62	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.54	
<i>For >100, Deduct</i>	-7.08	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.71	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.72	
<i>For >100, Deduct</i>	-7.44	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	70.73	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.97	
			<i>For >100, Deduct</i>	-7.94	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	71.36	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-4.17	
			<i>For >100, Deduct</i>	-8.34	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	103.19	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-5.67	
			<i>For >100, Deduct</i>	-11.34	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	118.00	
			<i>For >10 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-6.04	
			<i>For >100, Deduct</i>	-12.08	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	13.63	
			<i>For >10 To 50, Deduct</i>	-0.58	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.41	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.40	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.50	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.09	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100, Deduct</i>	-3.01	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.68	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.04	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.82	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.52	
			<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.67	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.59	
			<i>For >100, Deduct</i>	-3.19	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	28.80	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100, Deduct</i>	-4.44	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.45	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.26	
			<i>For >100, Deduct</i>	-4.52	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	33.44	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.33	
			<i>For >100, Deduct</i>	-4.67	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.19	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.35	
			<i>For >100, Deduct</i>	-4.71	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	46.21	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.00	
			<i>For >100, Deduct</i>	-6.01	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.11	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.04	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.63	
			<i>For >100, Deduct</i>	-7.25	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.78	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100, Deduct</i>	-7.44	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	25.03	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.12	
			<i>For >100, Deduct</i>	-4.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	26.36	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.16	
For >100, Deduct	-4.32	
05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.69	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.19	
For >100, Deduct	-4.38	
05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.36	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.21	
For >100, Deduct	-4.42	
05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	34.24	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.71	
For >100, Deduct	-5.41	
05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	32.64	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.67	
For >100, Deduct	-5.33	
05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	44.26	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.31	
For >100, Deduct	-6.62	
05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	45.72	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.34	
For >100, Deduct	-6.69	
05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	52.92	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.52	
For >100, Deduct	-7.05	
05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	56.55	
For >10 To 50, Deduct	-2.06	
For >50 To 100, Deduct	-4.50	
For >100, Deduct	-9.01	
05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	60.69	
For >10 To 50, Deduct	-2.06	
For >50 To 100, Deduct	-4.61	
For >100, Deduct	-9.22	
05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	64.79	
For >10 To 50, Deduct	-2.06	
For >50 To 100, Deduct	-4.71	
For >100, Deduct	-9.42	
05 05 19 00-0096 Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0086)</small>		
Note: Includes nut and washer.		
05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.31	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.39	
05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.46	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.39	
05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.65	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	12.97	
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.51	
05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.11	
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.52	
05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.68	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.42	
For >100, Deduct	-2.84	
05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.94	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.85	
05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.18	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.14	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.02	
For >100, Deduct	-4.05	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.46	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.03	
			<i>For >100, Deduct</i>	-4.07	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.74	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.04	
			<i>For >100, Deduct</i>	-4.08	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.07	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.05	
			<i>For >100, Deduct</i>	-4.10	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.49	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	26.98	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.52	
			<i>For >100, Deduct</i>	-5.05	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.35	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.53	
			<i>For >100, Deduct</i>	-5.07	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	28.40	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.56	
			<i>For >100, Deduct</i>	-5.12	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.41	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.01	
			<i>For >100, Deduct</i>	-6.02	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.32	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.07	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	34.14	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.05	
			<i>For >100, Deduct</i>	-6.11	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	35.44	
			<i>For >10 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-3.09	
			<i>For >100, Deduct</i>	-6.17	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	13.96	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	18.05	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-3.01	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	19.65	
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.54	
			<i>For >100, Deduct</i>	-3.09	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	26.77	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.17	
			<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	29.64	
			<i>For >10 To 50, Deduct</i>	-1.00	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.47	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	40.25	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-2.86	
			<i>For >100, Deduct</i>	-5.71	
05 05 19 00-0125			Concrete Strike Anchors <small>(05 05 19 00-0002)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.05	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	13.31	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.88	
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100, Deduct</i>	-2.55	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	14.95	
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.30	
<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	15.83	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	16.63	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	17.24	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.97	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	23.11	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.07	
<i>For >100, Deduct</i>	-4.15	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	23.58	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100, Deduct</i>	-4.17	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	24.98	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.12	
<i>For >100, Deduct</i>	-4.24	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	26.78	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	30.68	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.62	
<i>For >100, Deduct</i>	-5.23	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	32.34	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.66	
<i>For >100, Deduct</i>	-5.31	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	33.81	
<i>For >10 To 50, Deduct</i>	-1.23	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.39	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	39.36	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.18	
<i>For >100, Deduct</i>	-6.37	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	40.92	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.22	
<i>For >100, Deduct</i>	-6.45	
05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	17.09	
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100, Deduct</i>	-3.32	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	20.91	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.03	
<i>For >100, Deduct</i>	-4.05	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	25.48	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-2.41	
<i>For >100, Deduct</i>	-4.82	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	28.88	
<i>For >10 To 50, Deduct</i>	-1.30	
<i>For >50 To 100, Deduct</i>	-2.67	
<i>For >100, Deduct</i>	-5.34	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	34.56	
<i>For >10 To 50, Deduct</i>	-1.48	
<i>For >50 To 100, Deduct</i>	-3.08	
<i>For >100, Deduct</i>	-6.16	
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	20.47	
For >10 To 50, Deduct	-0.82	
For >50 To 100, Deduct	-1.74	
For >100, Deduct	-3.49	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	27.26	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.18	
For >100, Deduct	-4.37	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	33.88	
For >10 To 50, Deduct	-1.18	
For >50 To 100, Deduct	-2.62	
For >100, Deduct	-5.24	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	42.41	
For >10 To 50, Deduct	-1.30	
For >50 To 100, Deduct	-3.01	
For >100, Deduct	-6.01	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	57.82	
For >10 To 50, Deduct	-1.48	
For >50 To 100, Deduct	-3.66	
For >100, Deduct	-7.32	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.53	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.40	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	13.39	
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.53	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.13	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	22.07	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.10	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	30.47	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.61	
For >100, Deduct	-5.22	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	36.75	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.12	
For >100, Deduct	-6.24	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	12.71	
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.41	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.11	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.43	
For >100, Deduct	-2.86	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.83	
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.45	
For >100, Deduct	-2.90	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	22.31	
For >10 To 50, Deduct	-1.00	
For >50 To 100, Deduct	-2.05	
For >100, Deduct	-4.11	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	29.47	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-2.59	
For >100, Deduct	-5.17	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	33.15	
For >10 To 50, Deduct	-1.47	
For >50 To 100, Deduct	-3.03	
For >100, Deduct	-6.06	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA			1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	15.94	
				<i>For >10 To 50, Deduct</i>	-0.65	
				<i>For >50 To 100, Deduct</i>	-1.37	
				<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0172	EA			5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	18.47	
				<i>For >10 To 50, Deduct</i>	-0.71	
				<i>For >50 To 100, Deduct</i>	-1.52	
				<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0173	EA			3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	22.93	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.90	
				<i>For >100, Deduct</i>	-3.80	
05 05 19 00-0174	EA			1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	26.83	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.17	
				<i>For >100, Deduct</i>	-4.33	
05 05 19 00-0175	EA			1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	28.40	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.21	
				<i>For >100, Deduct</i>	-4.41	
05 05 19 00-0176	EA			5/8" x 7" Long Chemically Adhered Anchor Rod.....	35.15	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-2.73	
				<i>For >100, Deduct</i>	-5.46	
05 05 19 00-0177	EA			3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	45.60	
				<i>For >10 To 50, Deduct</i>	-1.47	
				<i>For >50 To 100, Deduct</i>	-3.34	
				<i>For >100, Deduct</i>	-6.68	
05 05 19 00-0178	EA			7/8" x 10" Long Chemically Adhered Anchor Rod.....	53.98	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.73	
				<i>For >100, Deduct</i>	-7.46	
05 05 19 00-0179	EA			1" x 11-3/4" Long Chemically Adhered Anchor Rod	73.73	
				<i>For >10 To 50, Deduct</i>	-2.06	
				<i>For >50 To 100, Deduct</i>	-4.93	
				<i>For >100, Deduct</i>	-9.87	
05 05 19 00-0180	EA			1-1/4" x 14" Long Chemically Adhered Anchor Rod	105.67	
				<i>For >10 To 50, Deduct</i>	-2.60	
				<i>For >50 To 100, Deduct</i>	-6.54	
				<i>For >100, Deduct</i>	-13.08	
05 05 19 00-0181				Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
				Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
				Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA			1/4" Chemical Adhesive For Bolt Or Threaded Rod	13.35	
				<i>For >10 To 50, Deduct</i>	-0.65	
				<i>For >50 To 100, Deduct</i>	-1.31	
				<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0183	EA			5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	14.63	
				<i>For >10 To 50, Deduct</i>	-0.71	
				<i>For >50 To 100, Deduct</i>	-1.43	
				<i>For >100, Deduct</i>	-2.86	
05 05 19 00-0184	EA			3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.32	
				<i>For >10 To 50, Deduct</i>	-0.89	
				<i>For >50 To 100, Deduct</i>	-1.79	
				<i>For >100, Deduct</i>	-3.57	
05 05 19 00-0185	EA			1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	20.81	
				<i>For >10 To 50, Deduct</i>	-1.00	
				<i>For >50 To 100, Deduct</i>	-2.02	
				<i>For >100, Deduct</i>	-4.03	
05 05 19 00-0186	EA			5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	26.74	
				<i>For >10 To 50, Deduct</i>	-1.23	
				<i>For >50 To 100, Deduct</i>	-2.52	
				<i>For >100, Deduct</i>	-5.03	
05 05 19 00-0187	EA			3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	32.99	
				<i>For >10 To 50, Deduct</i>	-1.47	
				<i>For >50 To 100, Deduct</i>	-3.03	
				<i>For >100, Deduct</i>	-6.05	
05 05 19 00-0188	EA			7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	36.63	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.30	
				<i>For >100, Deduct</i>	-6.60	
05 05 19 00-0189	EA			1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	48.51	
				<i>For >10 To 50, Deduct</i>	-2.06	
				<i>For >50 To 100, Deduct</i>	-4.30	
				<i>For >100, Deduct</i>	-8.61	
05 05 19 00-0190	EA			1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	55.56	
				<i>For >10 To 50, Deduct</i>	-2.33	
				<i>For >50 To 100, Deduct</i>	-4.88	
				<i>For >100, Deduct</i>	-9.77	
05 05 19 00-0191	EA			1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	63.63	
				<i>For >10 To 50, Deduct</i>	-2.60	
				<i>For >50 To 100, Deduct</i>	-5.49	
				<i>For >100, Deduct</i>	-10.97	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.91	
			<i>For >10 To 50, Deduct</i>	-2.72	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100, Deduct</i>	-11.59	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	76.13	
			<i>For >10 To 50, Deduct</i>	-2.83	
			<i>For >50 To 100, Deduct</i>	-6.15	
			<i>For >100, Deduct</i>	-12.31	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	90.59	
			<i>For >10 To 50, Deduct</i>	-3.07	
			<i>For >50 To 100, Deduct</i>	-6.87	
			<i>For >100, Deduct</i>	-13.74	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	122.15	
			<i>For >10 To 50, Deduct</i>	-3.19	
			<i>For >50 To 100, Deduct</i>	-7.84	
			<i>For >100, Deduct</i>	-15.67	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0199)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.37	
			<i>For >10 To 50, Deduct</i>	-0.21	
			<i>For >50 To 100, Deduct</i>	-0.42	
			<i>For >100, Deduct</i>	-0.84	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0198) Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	12.10	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	12.18	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	12.35	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	12.19	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.38	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	12.29	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.19	
			<i>For >100, Deduct</i>	-2.39	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	12.49	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100, Deduct</i>	-2.40	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0199) Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	12.89	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.21	
			<i>For >100, Deduct</i>	-2.42	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.28	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.38	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.44	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.57	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.45	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.73	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.46	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.07	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.48	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.48	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.86	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.26	
			<i>For >100, Deduct</i>	-2.51	
05 05 19 00-0215	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	15.94	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.57	
05 05 19 00-0216	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	16.06	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.57	
05 05 19 00-0217	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.72	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0218	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	17.39	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.64	
05 05 19 00-0219	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	18.22	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0220	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	17.63	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.65	
05 05 19 00-0221	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	18.26	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0222	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	19.71	
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	
05 05 19 00-0223			Pin Bolt Drives <small>(05 05 19 00-0198)</small>		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0224	EA		1/4" x 1" Pin Bolt Drive.....	7.53	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0225	EA		1/4" x 1-1/4" Pin Bolt Drive.....	7.53	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0226	EA		1/4" x 1-1/2" Pin Bolt Drive.....	7.59	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0227	EA		1/4" x 2" Pin Bolt Drive.....	7.60	
			<i>For >10 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.72	
			<i>For >100, Deduct</i>	-1.44	
05 05 19 00-0228			Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0198)</small>		
05 05 19 00-0229	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.87	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100, Deduct</i>	-0.33	
05 05 19 00-0230	EA		0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.97	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100, Deduct</i>	-0.35	
05 05 19 00-0231	EA		0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	2.15	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100, Deduct</i>	-0.37	
05 05 19 00-0232	EA		0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.37	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100, Deduct</i>	-0.40	
05 05 19 00-0233	EA		0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.49	
			<i>For >10 To 50, Deduct</i>	-0.09	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100, Deduct</i>	-0.41	
05 05 19 00-0234			Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0198)</small>		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.20	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.18	
For >100, Deduct	-0.36	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.98	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.23	
For >100, Deduct	-0.45	
05 05 21 Fastening Methods for Metal (05 05)		
05 05 21 00-0001 Welding (05 05 21)		
05 05 21 00-0002 Minimum Charge For Welding (05 05 21 00-0001)		
05 05 21 00-0003 EA Welding Minimum Charge.....	454.45	
Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004 Spot Welding (05 05 21 00-0001)		
See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	11.70	
For Aluminum Welding, Add	1.82	
For Stainless Steel Welding, Add	3.00	
05 05 21 00-0006 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	9.12	
For Aluminum Welding, Add	1.43	
For Stainless Steel Welding, Add	2.36	
05 05 21 00-0007 Field Welding (Seam And Stitch Welding) (05 05 21 00-0001)		
05 05 21 00-0008 Vertical Fillet Welds (05 05 21 00-0007)		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009 LF 1/8" Vertical Fillet Weld.....	7.35	
For Aluminum Welding, Add	1.40	
For Stainless Steel Welding, Add	2.21	
For Up To 25, Add	2.45	
For >25 To 50, Add	1.74	
05 05 21 00-0010 LF 3/16" Vertical Fillet Weld.....	14.32	
For Aluminum Welding, Add	2.52	
For Stainless Steel Welding, Add	4.05	
For Up To 25, Add	4.86	
For >25 To 50, Add	3.46	
05 05 21 00-0011 LF 1/4" Vertical Fillet Weld.....	21.50	
For Aluminum Welding, Add	3.80	
For Stainless Steel Welding, Add	6.09	
For Up To 25, Add	7.29	
For >25 To 50, Add	5.19	
05 05 21 00-0012 LF 5/16" Vertical Fillet Weld.....	28.36	
For Aluminum Welding, Add	5.02	
For Stainless Steel Welding, Add	8.05	
For Up To 25, Add	9.61	
For >25 To 50, Add	6.83	
05 05 21 00-0013 LF 3/8" Vertical Fillet Weld.....	35.82	
For Aluminum Welding, Add	6.32	
For Stainless Steel Welding, Add	10.13	
For Up To 25, Add	12.14	
For >25 To 50, Add	8.64	
05 05 21 00-0014 LF 7/16" Vertical Fillet Weld.....	41.80	
For Aluminum Welding, Add	7.01	
For Stainless Steel Welding, Add	11.38	
For Up To 25, Add	14.32	
For >25 To 50, Add	10.20	
05 05 21 00-0015 LF 1/2" Vertical Fillet Weld.....	48.97	
For Aluminum Welding, Add	8.66	
For Stainless Steel Welding, Add	13.89	
For Up To 25, Add	16.59	
For >25 To 50, Add	11.80	
05 05 21 00-0016 LF 9/16" Vertical Fillet Weld.....	57.40	
For Aluminum Welding, Add	9.79	
For Stainless Steel Welding, Add	15.82	
For Up To 25, Add	19.60	
For >25 To 50, Add	13.96	
05 05 21 00-0017 LF 5/8" Vertical Fillet Weld.....	66.55	
For Aluminum Welding, Add	11.38	
For Stainless Steel Welding, Add	18.39	
For Up To 25, Add	22.71	
For >25 To 50, Add	16.17	
05 05 21 00-0018 LF 3/4" Vertical Fillet Weld.....	89.62	
For Aluminum Welding, Add	15.84	
For Stainless Steel Welding, Add	25.41	
For Up To 25, Add	30.37	
For >25 To 50, Add	21.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0019 LF 7/8" Vertical Fillet Weld.....	132.89	
<i>For Aluminum Welding, Add</i>	22.60	
<i>For Stainless Steel Welding, Add</i>	36.56	
<i>For Up To 25, Add</i>	45.40	
<i>For >25 To 50, Add</i>	32.33	
05 05 21 00-0020 LF 1" Vertical Fillet Weld.....	178.72	
<i>For Aluminum Welding, Add</i>	31.29	
<i>For Stainless Steel Welding, Add</i>	50.28	
<i>For Up To 25, Add</i>	60.68	
<i>For >25 To 50, Add</i>	43.19	
05 05 21 00-0021 Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
<i>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</i>		
05 05 21 00-0022 LF 1/8" Horizontal Or Flat Fillet Weld.....	6.17	
<i>For Aluminum Welding, Add</i>	1.23	
<i>For Stainless Steel Welding, Add</i>	1.92	
<i>For Up To 25, Add</i>	2.03	
<i>For >25 To 50, Add</i>	1.44	
05 05 21 00-0023 LF 3/16" Horizontal Or Flat Fillet Weld.....	12.10	
<i>For Aluminum Welding, Add</i>	2.21	
<i>For Stainless Steel Welding, Add</i>	3.51	
<i>For Up To 25, Add</i>	4.07	
<i>For >25 To 50, Add</i>	2.90	
05 05 21 00-0024 LF 1/4" Horizontal Or Flat Fillet Weld.....	18.10	
<i>For Aluminum Welding, Add</i>	3.30	
<i>For Stainless Steel Welding, Add</i>	5.26	
<i>For Up To 25, Add</i>	6.09	
<i>For >25 To 50, Add</i>	4.33	
05 05 21 00-0025 LF 5/16" Horizontal Or Flat Fillet Weld.....	23.92	
<i>For Aluminum Welding, Add</i>	4.39	
<i>For Stainless Steel Welding, Add</i>	6.99	
<i>For Up To 25, Add</i>	8.04	
<i>For >25 To 50, Add</i>	5.71	
05 05 21 00-0026 LF 3/8" Horizontal Or Flat Fillet Weld.....	30.21	
<i>For Aluminum Welding, Add</i>	5.52	
<i>For Stainless Steel Welding, Add</i>	8.78	
<i>For Up To 25, Add</i>	10.16	
<i>For >25 To 50, Add</i>	7.22	
05 05 21 00-0027 LF 7/16" Horizontal Or Flat Fillet Weld.....	35.13	
<i>For Aluminum Welding, Add</i>	6.06	
<i>For Stainless Steel Welding, Add</i>	9.77	
<i>For Up To 25, Add</i>	11.97	
<i>For >25 To 50, Add</i>	8.52	
05 05 21 00-0028 LF 1/2" Horizontal Or Flat Fillet Weld.....	41.25	
<i>For Aluminum Welding, Add</i>	7.56	
<i>For Stainless Steel Welding, Add</i>	12.03	
<i>For Up To 25, Add</i>	13.87	
<i>For >25 To 50, Add</i>	9.85	
05 05 21 00-0029 LF 9/16" Horizontal Or Flat Fillet Weld.....	48.34	
<i>For Aluminum Welding, Add</i>	8.51	
<i>For Stainless Steel Welding, Add</i>	13.66	
<i>For Up To 25, Add</i>	16.39	
<i>For >25 To 50, Add</i>	11.67	
05 05 21 00-0030 LF 5/8" Horizontal Or Flat Fillet Weld.....	56.23	
<i>For Aluminum Welding, Add</i>	10.07	
<i>For Stainless Steel Welding, Add</i>	16.10	
<i>For Up To 25, Add</i>	19.00	
<i>For >25 To 50, Add</i>	13.51	
05 05 21 00-0031 LF 3/4" Horizontal Or Flat Fillet Weld.....	75.57	
<i>For Aluminum Welding, Add</i>	13.85	
<i>For Stainless Steel Welding, Add</i>	22.04	
<i>For Up To 25, Add</i>	25.40	
<i>For >25 To 50, Add</i>	18.05	
05 05 21 00-0032 LF 7/8" Horizontal Or Flat Fillet Weld.....	111.19	
<i>For Aluminum Welding, Add</i>	19.17	
<i>For Stainless Steel Welding, Add</i>	30.92	
<i>For Up To 25, Add</i>	37.88	
<i>For >25 To 50, Add</i>	26.97	
05 05 21 00-0033 LF 1" Horizontal Or Flat Fillet Weld.....	150.18	
<i>For Aluminum Welding, Add</i>	27.23	
<i>For Stainless Steel Welding, Add</i>	43.42	
<i>For Up To 25, Add</i>	50.61	
<i>For >25 To 50, Add</i>	35.98	

05 05 23 Metal Fastenings (05 05)

05 05 23 00-0001 Hex Bolts (05 05 23)
Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 02 41 19 13-0157 for drilling into concrete, 02 41 19 13-0167 for drilling into brick or block, 02 41 19 13-0177 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.

05 05 23 00-0002 A307B Heavy Hex Bolts (05 05 23 00-0001)
Note: Includes A307B heavy hex nut and two structural washers.

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0003			Plain Finish A307B Heavy Hex Bolts <small>(05 05 23 00-0002)</small>		
05 05 23 00-0004	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	13.45	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-2.31	
05 05 23 00-0005	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	14.90	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.39	
05 05 23 00-0006	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	14.94	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.39	
05 05 23 00-0007	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	17.83	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.38	
			For >100, Deduct	-2.77	
05 05 23 00-0008	EA		3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	17.38	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.51	
05 05 23 00-0009	EA		3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	20.86	1.50
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.46	
			For >100, Deduct	-2.92	
05 05 23 00-0010	EA		3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	26.53	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.64	
			For >100, Deduct	-3.29	
05 05 23 00-0011	EA		3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	28.52	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.49	
05 05 23 00-0012	EA		7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	20.89	1.42
			For >10 To 50, Deduct	-0.59	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.83	
05 05 23 00-0013	EA		7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	25.25	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.61	
			For >100, Deduct	-3.22	
05 05 23 00-0014	EA		1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	29.81	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.78	
			For >100, Deduct	-3.55	
05 05 23 00-0015	EA		1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	42.84	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-2.15	
			For >100, Deduct	-4.31	
05 05 23 00-0016	EA		1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	50.20	1.96
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.96	
05 05 23 00-0017	EA		1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	56.54	2.10
			For >10 To 50, Deduct	-0.87	
			For >50 To 100, Deduct	-2.72	
			For >100, Deduct	-5.45	
05 05 23 00-0018			Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0002)</small>		
05 05 23 00-0019	EA		1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	14.16	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.17	
			For >100, Deduct	-2.35	
05 05 23 00-0020	EA		1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	15.38	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.41	
05 05 23 00-0021	EA		5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	16.70	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.48	
05 05 23 00-0022	EA		5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	19.59	1.50
			For >10 To 50, Deduct	-0.63	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.85	
05 05 23 00-0023	EA		3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	19.37	1.31
			For >10 To 50, Deduct	-0.55	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.61	
05 05 23 00-0024	EA		3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	24.54	1.50
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0025 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	32.88	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100, Deduct</i>	-3.60	
05 05 23 00-0026 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	38.80	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-2.00	
<i>For >100, Deduct</i>	-4.00	
05 05 23 00-0027 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	26.11	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.54	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0028 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	31.13	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.76	
<i>For >100, Deduct</i>	-3.51	
05 05 23 00-0029 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	37.41	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.97	
<i>For >100, Deduct</i>	-3.93	
05 05 23 00-0030 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	56.60	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-2.50	
<i>For >100, Deduct</i>	-4.99	
05 05 23 00-0031 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	56.35	1.96
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-2.63	
<i>For >100, Deduct</i>	-5.26	
05 05 23 00-0032 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	70.80	2.10
<i>For >10 To 50, Deduct</i>	-0.87	
<i>For >50 To 100, Deduct</i>	-3.08	
<i>For >100, Deduct</i>	-6.16	
05 05 23 00-0033 A325 High Strength Structural Bolts <small>(05 05 23 00-0001)</small>		
05 05 23 00-0034 Plain Finish A325 High Strength Structural Bolts <small>(05 05 23 00-0033)</small>		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.12	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.15	
<i>For >100, Deduct</i>	-2.30	
05 05 23 00-0036 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	13.44	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.16	
<i>For >100, Deduct</i>	-2.31	
05 05 23 00-0037 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.46	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100, Deduct</i>	-2.36	
05 05 23 00-0038 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	17.86	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.77	
05 05 23 00-0039 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	20.86	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.00	
05 05 23 00-0040 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.88	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.22	
<i>For >100, Deduct</i>	-2.44	
05 05 23 00-0041 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.38	1.50
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.84	
05 05 23 00-0042 EA 3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.20	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100, Deduct</i>	-3.07	
05 05 23 00-0043 EA 3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	27.61	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.72	
<i>For >100, Deduct</i>	-3.44	
05 05 23 00-0044 EA 7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	18.55	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.35	
<i>For >100, Deduct</i>	-2.71	
05 05 23 00-0045 EA 7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	22.76	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0046 EA 7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	26.13	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100, Deduct</i>	-3.37	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	28.37	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.79	
			<i>For >100, Deduct</i>	-3.58	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	20.59	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.88	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	24.92	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.65	
			<i>For >100, Deduct</i>	-3.31	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	29.05	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.81	
			<i>For >100, Deduct</i>	-3.62	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	37.60	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.09	
			<i>For >100, Deduct</i>	-4.18	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	35.81	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.05	
			<i>For >100, Deduct</i>	-4.09	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	40.74	1.96
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-2.24	
			<i>For >100, Deduct</i>	-4.48	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	48.02	2.10
			<i>For >10 To 50, Deduct</i>	-0.87	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	56.63	2.24
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.81	
			<i>For >100, Deduct</i>	-5.63	
05 05 23 00-0056			Galvanized A325 High Strength Structural Bolts <small>(05 05 23 00-0033)</small>		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	13.76	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.16	
			<i>For >100, Deduct</i>	-2.33	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	13.98	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.17	
			<i>For >100, Deduct</i>	-2.34	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.81	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.22	
			<i>For >100, Deduct</i>	-2.43	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.82	1.50
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100, Deduct</i>	-2.82	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	19.94	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.48	
			<i>For >100, Deduct</i>	-2.96	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	16.50	1.31
			<i>For >10 To 50, Deduct</i>	-0.55	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100, Deduct</i>	-2.47	
05 05 23 00-0063	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	20.16	1.50
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100, Deduct</i>	-2.88	
05 05 23 00-0064	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	23.42	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.57	
			<i>For >100, Deduct</i>	-3.13	
05 05 23 00-0065	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	30.50	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.79	
			<i>For >100, Deduct</i>	-3.59	
05 05 23 00-0066	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	22.27	1.42
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.45	
			<i>For >100, Deduct</i>	-2.89	
05 05 23 00-0067	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	24.96	1.56
			<i>For >10 To 50, Deduct</i>	-0.65	
			<i>For >50 To 100, Deduct</i>	-1.60	
			<i>For >100, Deduct</i>	-3.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	28.81	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.75	
<i>For >100, Deduct</i>	-3.50	
05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	36.38	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.99	
<i>For >100, Deduct</i>	-3.98	
05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	23.49	1.48
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.51	
<i>For >100, Deduct</i>	-3.03	
05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	31.57	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.82	
<i>For >100, Deduct</i>	-3.64	
05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	34.62	1.73
<i>For >10 To 50, Deduct</i>	-0.72	
<i>For >50 To 100, Deduct</i>	-1.95	
<i>For >100, Deduct</i>	-3.90	
05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	44.46	1.84
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.53	
05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	44.18	1.84
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-2.26	
<i>For >100, Deduct</i>	-4.51	
05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	47.13	1.96
<i>For >10 To 50, Deduct</i>	-0.82	
<i>For >50 To 100, Deduct</i>	-2.40	
<i>For >100, Deduct</i>	-4.80	
05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	55.35	2.10
<i>For >10 To 50, Deduct</i>	-0.87	
<i>For >50 To 100, Deduct</i>	-2.69	
<i>For >100, Deduct</i>	-5.39	
05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	64.28	2.24
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-3.00	
<i>For >100, Deduct</i>	-6.01	
05 05 23 00-0078 A490 High Strength Structural Bolts <small>(05 05 23 00-0001)</small>		
<i>Note: Includes A490 heavy hex nut and two structural washers.</i>		
05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts <small>(05 05 23 00-0078)</small>		
05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.97	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.19	
<i>For >100, Deduct</i>	-2.39	
05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.34	1.50
<i>For >10 To 50, Deduct</i>	-0.63	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.94	
05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	22.86	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.10	
05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.94	1.31
<i>For >10 To 50, Deduct</i>	-0.55	
<i>For >50 To 100, Deduct</i>	-1.24	
<i>For >100, Deduct</i>	-2.49	
05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	20.58	1.50
<i>For >10 To 50, Deduct</i>	-0.62	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.90	
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	24.13	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.58	
<i>For >100, Deduct</i>	-3.17	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	31.37	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.63	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	19.76	1.42
<i>For >10 To 50, Deduct</i>	-0.59	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.77	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	23.14	1.56
<i>For >10 To 50, Deduct</i>	-0.65	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100, Deduct</i>	-3.11	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	33.98	1.65
<i>For >10 To 50, Deduct</i>	-0.69	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100, Deduct</i>	-3.76	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0090	EA		1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	23.43	1.48
			<i>For >10 To 50, Deduct</i>	-0.62	
			<i>For >50 To 100, Deduct</i>	-1.51	
			<i>For >100, Deduct</i>	-3.02	
05 05 23 00-0091	EA		1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	28.11	1.65
			<i>For >10 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.73	
			<i>For >100, Deduct</i>	-3.47	
05 05 23 00-0092	EA		1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	32.48	1.73
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-1.89	
			<i>For >100, Deduct</i>	-3.79	
05 05 23 00-0093	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	40.87	1.84
			<i>For >10 To 50, Deduct</i>	-0.77	
			<i>For >50 To 100, Deduct</i>	-2.17	
			<i>For >100, Deduct</i>	-4.35	
05 05 23 00-0094	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	52.82	1.96
			<i>For >10 To 50, Deduct</i>	-0.82	
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100, Deduct</i>	-5.09	
05 05 23 00-0095	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	55.55	2.10
			<i>For >10 To 50, Deduct</i>	-0.87	
			<i>For >50 To 100, Deduct</i>	-2.70	
			<i>For >100, Deduct</i>	-5.40	
05 05 23 00-0096	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	57.92	2.24
			<i>For >10 To 50, Deduct</i>	-0.93	
			<i>For >50 To 100, Deduct</i>	-2.85	
			<i>For >100, Deduct</i>	-5.69	
05 05 23 00-0097			Hex Head Bolts <small>(05 05 23 00-0001)</small>		
05 05 23 00-0098			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0099			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0100	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.49	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0101	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.52	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0102	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.60	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0103	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.64	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0104	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0105	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0106	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0107	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0108	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.32	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0109	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0110	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0111	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.01	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0112 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0113 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0114 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.15	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0115 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.23	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0117 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.56	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0118 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.59	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0119 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0120 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.71	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0121 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0122 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.12	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0123 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.17	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0124 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.50	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0125 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0126 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.76	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0127 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.03	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0128 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.10	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0129 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0130 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0131 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0132 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.94	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0133			3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0098</small>		
05 05 23 00-0134	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.65	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0135	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.68	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0136	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.77	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0137	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0138	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.15	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0139	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0140	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.47	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0141	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.84	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0142	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0143	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0144	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.60	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0145	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.72	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0146	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0147	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0148	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.19	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0149	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0150			7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
			<small>23 00-0098</small>		
05 05 23 00-0151	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.09	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0152	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.22	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0153	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0154	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.63	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.98	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.59	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.71	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.34	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.61	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.14	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.14	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.68	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.85	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.01	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0176	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.22	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0177	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0178	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0179	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0180	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0181	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0182	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0183	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0184	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.94	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0185	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.13	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0186			9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0187	EA		9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0188	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0189	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0190	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0191	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.61	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0192	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.71	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0193	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0194	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0195	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0196	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0197 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.60	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0198 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.81	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0199 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0200 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.50	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0201 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.76	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0202 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0203 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.48	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0204 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.68	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0205 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.98	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0207 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0208 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.81	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0209 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.00	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0210 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.46	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0211 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.74	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.27	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.68	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.07	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.12	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0218	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.83	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0219	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.44	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0220	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.00	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0221	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.65	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0222	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.56	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0223	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.20	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0224	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.86	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0225	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.36	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0226			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0227	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.15	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0228	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0229	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.71	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0230	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0231	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.66	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0232	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.02	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0233	EA		3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.63	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0234	EA		3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.14	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0235	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0236	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.57	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0237	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.91	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0238	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.53	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0239	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.78	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0240	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.25	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0241	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.93	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.58	
				<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0242	EA			3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.03	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0243	EA			3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.71	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0244	EA			3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.62	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0245	EA			3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.49	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0246				7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0247	EA			7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.73	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0248	EA			7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.97	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0249	EA			7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.09	
				<i>For >100 To 250, Deduct</i>	-2.11	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0250	EA			7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.64	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0251	EA			7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.31	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0252	EA			7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.08	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0253	EA			7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.94	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0254	EA			7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.07	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0255	EA			7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.70	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0256	EA			7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.40	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0257	EA			7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.78	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0258	EA			7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.67	
				<i>For >100 To 250, Deduct</i>	-2.23	
				<i>For >250 To 500, Deduct</i>	-2.79	
				<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0259	EA			7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.77	
				<i>For >100 To 250, Deduct</i>	-2.28	
				<i>For >250 To 500, Deduct</i>	-2.85	
				<i>For >500, Deduct</i>	-3.41	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0260	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.68	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0261	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.57	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0262	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.62	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0263	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.57	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0264	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.43	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0265	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.37	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0266			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0267	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0268	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.46	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0269	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.71	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0270	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.00	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0271	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.17	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0272	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.59	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0273	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.72	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0274	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.90	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0275	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.69	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0276	EA		1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.25	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0277	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.24	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0278	EA		1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.44	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0279	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.41	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0280	EA		1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.42	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0281 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.44	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0282 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.59	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0283 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.60	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0284 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.63	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0087)</small>		
05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0287 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.55	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0288 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.60	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0289 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.64	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0290 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.73	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0291 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.83	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0292 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.18	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0293 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.83	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0294 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.69	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0295 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.90	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0296 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.04	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	40.94	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	50.53	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	61.66	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	74.05	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	88.23	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	104.22	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0303			5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0304	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.65	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0305	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.69	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0306	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.75	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0307	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.87	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0308	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.16	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0309	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.31	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0310	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.57	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0311	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.91	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0312	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.11	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0313	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.31	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0314	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.89	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0315	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.96	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0316	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.21	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0317	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.75	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0318	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.10	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0319	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.43	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0320			3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0321	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.71	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0322	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.74	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0323	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	7.85	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0324 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.98	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0325 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.32	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0326 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.47	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0327 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.69	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0328 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.15	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0329 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.68	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0330 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0331 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.45	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0332 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.67	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0333 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.07	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0334 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.58	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0335 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.11	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0336 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.54	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0338 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.00	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.80	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.00	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.19	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.64	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0345	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.69	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0346	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.15	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0347	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.52	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0348	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.73	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0349	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.96	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0350	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.48	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0351	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.78	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0352	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.09	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0353			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0354	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.14	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0355	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.29	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0356	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.44	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0357	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.91	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0358	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.15	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0359	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.40	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0360	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.84	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0361	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.66	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0362	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.71	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0363	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.49	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0364	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0365	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.64	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0366 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.60	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0367 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.06	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0368 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.24	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0369 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.29	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0370 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.10	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0371 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.25	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0372 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.69	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0374 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.59	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0375 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.86	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0376 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.10	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0377 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.57	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0378 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.90	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0379 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.28	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0380 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.91	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.35	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.73	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.36	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.76	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.94	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.49	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.41	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.32	
For >500, Deduct	-2.78	
05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.47	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.81	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.14	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.96	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.92	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.01	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.09	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.37	
For >500, Deduct	-2.84	
05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.56	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.99	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.39	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.91	
05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.02	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.79	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0402 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.20	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-2.48	
For >500, Deduct	-2.97	
05 05 23 00-0403 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.63	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0404 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.29	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0405 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.35	
For >100 To 250, Deduct	-2.02	
For >250 To 500, Deduct	-2.53	
For >500, Deduct	-3.03	
05 05 23 00-0406 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.51	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	
05 05 23 00-0407 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.38	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.58	
For >500, Deduct	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0408 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.51	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0409 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.30	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0410 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0411 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.19	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0412 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.79	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0414 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.90	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0415 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.08	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0416 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.17	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0417 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.75	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0418 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.19	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0419 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.86	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0420 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.52	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0421 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.95	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0422 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.86	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0423 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.48	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0424 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.22	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0425 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.13	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0426 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.63	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0427 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.58	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0428 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.11	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0429	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.73	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0430	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.21	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0431	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.77	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0432	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.16	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0433			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.19	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0435	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.41	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0436	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.70	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0437	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.21	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0438	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.09	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0439	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.68	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0440	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.33	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0441	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.37	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0442	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.15	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0443	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.74	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.39	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.19	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.40	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.62	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.70	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.69	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0450 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.88	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0451 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.91	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0452 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.94	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0454 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.15	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0455 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.22	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0456 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.09	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0457 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.94	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0458 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.57	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0459 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.58	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0460 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.58	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0461 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.03	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0462 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.28	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0463 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.59	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0464 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.61	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.13	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.29	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.90	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	37.03	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	37.57	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	39.05	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	40.06	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.57	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.68	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.73	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.84	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.12	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.36	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.57	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.91	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.23	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.60	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.77	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.98	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0487 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.34	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0488 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.75	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0489 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.94	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0491 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.66	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-0492 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.73	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0493 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.93	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0494 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.97	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0495 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.29	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0496 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.58	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0497 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.67	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0498 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.05	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0499 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.24	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0500 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.67	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0501 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.13	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0502 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.29	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0503 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.54	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0504 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.92	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0505 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.11	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0506 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.47	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0508 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.88	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0509 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.90	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0510 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	7.91	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0511 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.15	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0512 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.49	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0513 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0514	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.94	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0515	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.81	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0516	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.08	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0517	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.13	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0518	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.45	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0519	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.74	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0520	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.05	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0521	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.56	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0522	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.15	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0523	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.52	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0524			7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0525	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.15	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0526	EA		7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.19	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0527	EA		7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.56	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0528	EA		7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.21	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.44	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.69	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.33	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.03	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0535 EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.28	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0536 EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.65	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0537 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.42	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0538 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.64	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0539 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.73	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0540 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0541 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0542 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.66	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0543 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.83	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0544 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.21	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0545 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.51	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0546 EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.17	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0547 EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.85	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0548 EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.23	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0549 EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.51	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0550 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.21	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0551 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.05	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0552 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.83	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0553 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.70	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0554 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.05	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0555 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.01	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0556	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.81	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0557	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.50	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0558	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.86	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0559	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.58	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0560			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0561	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.64	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0562	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0563	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.18	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0564	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.93	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0565	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0566	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0567	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.18	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0568	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.97	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0569	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.31	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0570	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.81	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.59	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.50	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.14	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.36	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.96	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0576			5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0577 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.27	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0578 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.43	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0579 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0580 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.65	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0581 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.14	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0582 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.41	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0583 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.80	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0584 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.68	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0585 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.07	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0586 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.69	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0587 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.11	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0588 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.97	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0589 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.23	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0590 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.22	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0591 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.63	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.59	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.52	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.67	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.18	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0598	EA		3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.36	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0599	EA		3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.48	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0600	EA		3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.94	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0601	EA		3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.30	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0602	EA		3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.35	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0603	EA		3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.00	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0604	EA		3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.10	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0605	EA		3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.52	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0606	EA		3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.25	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0607	EA		3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.00	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0608	EA		3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.40	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0609	EA		3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.31	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0610	EA		3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.06	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0611	EA		3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.44	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0612	EA		3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.49	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0613	EA		3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.85	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0614	EA		3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0615	EA		3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.18	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0616			7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0617	EA		7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.77	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0618	EA		7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.23	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0619 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.13	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0620 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.52	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0621 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.68	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0622 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.18	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0623 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.52	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0624 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.38	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0625 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.57	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0626 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.83	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0627 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.06	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0628 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.35	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0629 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	34.68	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0630 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.03	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0631 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	37.32	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0632 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.70	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0633 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.04	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0634 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	38.84	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0636 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.09	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0637 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.24	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0638 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.97	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0639 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.84	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0640	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.46	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0641	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.10	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0642	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.50	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0643	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.36	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0644	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.45	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0645	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.24	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0646	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.14	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0647	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.95	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0648	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.36	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0649	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.12	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0650	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.68	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0651	EA		1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	40.96	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0652	EA		1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	44.31	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0653	EA		1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	46.37	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0654			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0655			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0656	EA		1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.71	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0657	EA		1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.73	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0658	EA		1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0659	EA		1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0660	EA		1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.32	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.51	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.74	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.95	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.82	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.22	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.61	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.11	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.39	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0682	EA		5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.77	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0683	EA		5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.08	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0684	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0685	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.54	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0686	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.42	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0687	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0688	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.44	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0684)</small>					
05 05 23 00-0690	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.75	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0691	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0692	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.96	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0693	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0694	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0695	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.81	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0696	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.98	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0697	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0698	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.53	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0699	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0700	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.14	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0701	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0702	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.59	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0703 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0704 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.87	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0705 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.32	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0654)</small>		
05 05 23 00-0707 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0708 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0709 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0710 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.24	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0711 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0712 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0713 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.83	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0714 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0715 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.51	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0716 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0717 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.47	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts		
<small>(05 05 23 00-0654)</small>		
05 05 23 00-0719 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0720 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0721 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0722 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0723 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0724	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0725	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.35	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0726	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0727	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0728	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.29	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0729	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.71	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0730	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.75	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0731	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.04	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0732	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.14	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0733	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.46	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0734	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.16	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0735	EA		1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.41	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0736	EA		1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.46	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0737	EA		1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.61	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0738			5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0739	EA		5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.91	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0740	EA		5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.16	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0741	EA		5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.33	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0742	EA		5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.82	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0743	EA		5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0744	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.02	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.36	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.51	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.76	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.31	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.60	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.45	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.72	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.21	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.65	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.48	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.19	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.80	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.92	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.12	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.17	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.48	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.38	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.54	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.29	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.90	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0766	EA		3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.96	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0767	EA		3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.12	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0768	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.44	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0769	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.42	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0770	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.84	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0771	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.85	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0772	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.98	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0773	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.38	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0774	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.19	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0775	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.62	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0776	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.86	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0777	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.98	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0778			7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0779	EA		7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0780	EA		7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.06	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0781	EA		7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.55	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0782	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.04	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0783	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.41	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0784	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.10	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0785	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.62	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0786	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.29	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.96	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.48	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.60	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.38	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.34	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.57	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.04	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.58	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.24	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.87	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0854)</small>		
05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.92	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.29	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.18	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.89	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.71	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.07	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.11	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.43	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.81	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.34	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0808	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	29.22	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0809	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	30.70	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0810	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.16	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0811	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	32.81	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0812	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.00	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0813	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	34.91	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0814	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	36.24	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0815			304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0816			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0817	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.64	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0818	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.74	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0819	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.86	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0820	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.00	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0821	EA		1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.34	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0822	EA		1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.54	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0823	EA		1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.78	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0824	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.17	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0825	EA		1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.46	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0826	EA		1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.73	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0827	EA		1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.16	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0828	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.60	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0829	EA		1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.91	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.72	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.97	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.56	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.82	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	7.91	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.10	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.26	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.74	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.84	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.34	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.89	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.45	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.73	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.78	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.17	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.33	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.66	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.06	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.17	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0851	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.47	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0852	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.85	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0853	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.25	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0854	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.56	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0855	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.96	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0856	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.53	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0857	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.00	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0858	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.04	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	
05 05 23 00-0859	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.38	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0860	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.24	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0861	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.07	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0862	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.71	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0863	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.97	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0864	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.80	
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0865			7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0866	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.08	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0867	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.20	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0868	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.69	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0869	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.19	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0870	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.77	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0871	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.74	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0872 EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.40	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0873 EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.54	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0874 EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.03	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0875 EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.81	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0876 EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.54	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0877 EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.78	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0878 EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.19	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0879 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>	10.07	
05 05 23 00-0880 EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.07	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0881 EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.20	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0882 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.97	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0883 EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.48	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0884 EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.18	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0885 EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.55	
<i>For >100 To 250, Deduct</i>	-1.73	
<i>For >250 To 500, Deduct</i>	-2.16	
<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0886 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.22	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0887 EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.55	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0888 EA 1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.37	
<i>For >100 To 250, Deduct</i>	-1.77	
<i>For >250 To 500, Deduct</i>	-2.21	
<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0889 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.09	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0890 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.90	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0891 EA 1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.83	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0892 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.42	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-2.32	
<i>For >500, Deduct</i>	-2.78	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0893	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.97	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0894	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.84	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-0895	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.32	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0896	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.66	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0897	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.07	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0898	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.47	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0899			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0900	EA		9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.06	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0901	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.64	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0902	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.41	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-0903	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.18	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0904	EA		9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.16	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0905	EA		9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.88	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-0906	EA		9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.62	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0907	EA		9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.00	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0908	EA		9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.64	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-0909	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.56	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0910	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.50	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-0911			5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0912	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.46	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0913	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.82	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0914 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.33	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0915 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.79	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0916 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.51	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0917 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.54	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0918 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.04	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0919 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0920 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.20	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0921 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.07	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0922 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.11	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0923 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.91	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0924 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.19	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0925 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.91	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0926 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.69	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0927 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.08	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0928 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.09	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0929 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.61	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0930 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.47	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0932 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.11	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0933 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.82	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-0934 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.75	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0935	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.97	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0936	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.00	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0937	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.73	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-0938	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.97	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0939	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.57	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0940	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.86	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-0941	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.40	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0942	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.90	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0943	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.72	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-0944	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.40	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0945	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.79	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0946	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.89	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-0947	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.33	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0948	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.14	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0949	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.31	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0950	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.99	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0951			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>	19.60	
05 05 23 00-0952	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.60	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0953	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.36	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0954	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.92	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0955	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.71	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0956 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.30	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0957 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	26.98	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0958 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.54	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0959 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.44	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0960 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	32.23	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0961 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	33.73	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0962 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.98	
<i>For >100 To 250, Deduct</i>	-2.23	
<i>For >250 To 500, Deduct</i>	-2.79	
<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0963 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	45.35	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0964 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	49.05	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0965 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	52.04	
<i>For >100 To 250, Deduct</i>	-2.28	
<i>For >250 To 500, Deduct</i>	-2.85	
<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0966 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	61.30	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0967 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	68.55	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0968 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	71.91	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0969 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	75.25	
<i>For >100 To 250, Deduct</i>	-2.32	
<i>For >250 To 500, Deduct</i>	-2.90	
<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0970 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0971 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.87	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0972 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.16	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.29	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.91	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	31.58	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.23	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	34.78	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0977	EA		1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.64	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0978	EA		1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.39	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0979	EA		1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.17	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0980	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.33	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0981	EA		1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.69	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-0982	EA		1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.22	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0983	EA		1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.60	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0984	EA		1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	61.99	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-0985	EA		1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	64.97	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0986	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.23	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0987	EA		1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	88.55	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0988	EA		1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	111.05	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-0989			316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0997)</small>		
05 05 23 00-0990			1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-0991	EA		1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	7.83	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0992	EA		1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.03	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0993	EA		1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.18	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0994	EA		2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.28	
			<i>For >100 To 250, Deduct</i>	-1.48	
			<i>For >250 To 500, Deduct</i>	-1.85	
			<i>For >500, Deduct</i>	-2.21	
05 05 23 00-0995	EA		2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.78	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0996	EA		3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.05	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0997	EA		3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.31	
			<i>For >100 To 250, Deduct</i>	-1.52	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.28	
05 05 23 00-0998	EA		4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.73	
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-1.95	
			<i>For >500, Deduct</i>	-2.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0999 EA 4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.95	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1000 EA 5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.05	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1001 EA 5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.94	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1002 EA 6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.12	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1003 EA 6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	17.88	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1004 EA 7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	26.29	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1005 EA 7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	44.34	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1006 EA 8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	48.46	
<i>For >100 To 250, Deduct</i>	-1.64	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
05 05 23 00-1008 EA 5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.11	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1009 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	8.34	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1010 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	8.72	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1011 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	9.02	
<i>For >100 To 250, Deduct</i>	-1.48	
<i>For >250 To 500, Deduct</i>	-1.85	
<i>For >500, Deduct</i>	-2.21	
05 05 23 00-1012 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.35	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1013 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	9.95	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1014 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.36	
<i>For >100 To 250, Deduct</i>	-1.52	
<i>For >250 To 500, Deduct</i>	-1.90	
<i>For >500, Deduct</i>	-2.28	
05 05 23 00-1015 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	10.75	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.64	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	11.82	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-1.95	
<i>For >500, Deduct</i>	-2.34	
05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.66	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	13.35	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.10	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	27.49	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.72	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	8.81	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.17	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	10.03	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.21	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.54	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	10.70	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.44	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	11.77	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.24	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	12.56	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.95	
For >500, Deduct	-2.34	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.81	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	15.07	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.12	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	18.54	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1037 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.75	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1038 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	29.38	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1040 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	11.20	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-2.53	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1041	EA			7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 11.74 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.11 <i>For >500, Deduct</i> -2.53		
05 05 23 00-1042	EA			7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 12.76 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.11 <i>For >500, Deduct</i> -2.53		
05 05 23 00-1043	EA			7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 13.84 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1044	EA			7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 14.81 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1045	EA			7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 16.40 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1046	EA			7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 18.14 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.66		
05 05 23 00-1047	EA			7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 18.42 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.66		
05 05 23 00-1048	EA			7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 19.00 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.66		
05 05 23 00-1049	EA			7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 19.61 <i>For >100 To 250, Deduct</i> -1.81 <i>For >250 To 500, Deduct</i> -2.27 <i>For >500, Deduct</i> -2.72		
05 05 23 00-1050	EA			7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 20.02 <i>For >100 To 250, Deduct</i> -1.81 <i>For >250 To 500, Deduct</i> -2.27 <i>For >500, Deduct</i> -2.72		
05 05 23 00-1051	EA			7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 20.44 <i>For >100 To 250, Deduct</i> -1.81 <i>For >250 To 500, Deduct</i> -2.27 <i>For >500, Deduct</i> -2.72		
05 05 23 00-1052	EA			7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 20.98 <i>For >100 To 250, Deduct</i> -1.86 <i>For >250 To 500, Deduct</i> -2.32 <i>For >500, Deduct</i> -2.78		
05 05 23 00-1053				1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1054	EA			1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt 11.18 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.11 <i>For >500, Deduct</i> -2.53		
05 05 23 00-1055	EA			1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 11.76 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.11 <i>For >500, Deduct</i> -2.53		
05 05 23 00-1056	EA			1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 12.58 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.11 <i>For >500, Deduct</i> -2.53		
05 05 23 00-1057	EA			1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 13.76 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1058	EA			1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 14.66 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1059	EA			1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 14.88 <i>For >100 To 250, Deduct</i> -1.73 <i>For >250 To 500, Deduct</i> -2.16 <i>For >500, Deduct</i> -2.59		
05 05 23 00-1060	EA			1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 15.46 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.66		
05 05 23 00-1061	EA			1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 17.20 <i>For >100 To 250, Deduct</i> -1.77 <i>For >250 To 500, Deduct</i> -2.21 <i>For >500, Deduct</i> -2.66		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1062	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	20.72	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1063	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.20	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1064	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	21.76	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1065	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.11	
			<i>For >100 To 250, Deduct</i>	-1.81	
			<i>For >250 To 500, Deduct</i>	-2.27	
			<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1066	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	29.23	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1067	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.12	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1068	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	34.24	
			<i>For >100 To 250, Deduct</i>	-1.86	
			<i>For >250 To 500, Deduct</i>	-2.32	
			<i>For >500, Deduct</i>	-2.78	
05 05 23 00-1069	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.69	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1070	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	48.01	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1071	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.89	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1072	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	50.25	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1073			9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1074	EA		9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	25.76	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1075	EA		9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.68	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1076	EA		9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	34.08	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.11	
			<i>For >500, Deduct</i>	-2.53	
05 05 23 00-1077	EA		9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.88	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1078	EA		9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	41.67	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1079	EA		9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.45	
			<i>For >100 To 250, Deduct</i>	-1.73	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500, Deduct</i>	-2.59	
05 05 23 00-1080	EA		9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	48.02	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1081	EA		9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	51.14	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	
05 05 23 00-1082	EA		9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	53.91	
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.21	
			<i>For >500, Deduct</i>	-2.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1083 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.97	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1084 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	57.41	
<i>For >100 To 250, Deduct</i>	-1.81	
<i>For >250 To 500, Deduct</i>	-2.27	
<i>For >500, Deduct</i>	-2.72	
05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1086 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	15.19	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1087 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.36	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1088 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	15.41	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-2.37	
<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1089 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.72	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1090 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.84	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1091 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.41	
<i>For >100 To 250, Deduct</i>	-1.94	
<i>For >250 To 500, Deduct</i>	-2.42	
<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1092 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	22.37	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1093 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.49	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1094 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	26.57	
<i>For >100 To 250, Deduct</i>	-1.98	
<i>For >250 To 500, Deduct</i>	-2.48	
<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1095 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.83	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1096 EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	29.72	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1097 EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.18	
<i>For >100 To 250, Deduct</i>	-2.02	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1098 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	37.36	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1099 EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.05	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1100 EA 5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	40.60	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.58	
<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1101 EA 5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.12	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1102 EA 5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	45.28	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1103 EA 5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.59	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.16	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1104	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	66.62	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1105			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1106	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	19.53	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1107	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.92	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1108	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	21.40	
			<i>For >100 To 250, Deduct</i>	-1.90	
			<i>For >250 To 500, Deduct</i>	-2.37	
			<i>For >500, Deduct</i>	-2.84	
05 05 23 00-1109	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.92	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1110	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	25.69	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1111	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.30	
			<i>For >100 To 250, Deduct</i>	-1.94	
			<i>For >250 To 500, Deduct</i>	-2.42	
			<i>For >500, Deduct</i>	-2.91	
05 05 23 00-1112	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	30.93	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1113	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.35	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1114	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	33.13	
			<i>For >100 To 250, Deduct</i>	-1.98	
			<i>For >250 To 500, Deduct</i>	-2.48	
			<i>For >500, Deduct</i>	-2.97	
05 05 23 00-1115	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.38	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1116	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	36.15	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1117	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.61	
			<i>For >100 To 250, Deduct</i>	-2.02	
			<i>For >250 To 500, Deduct</i>	-2.53	
			<i>For >500, Deduct</i>	-3.03	
05 05 23 00-1118	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	49.73	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1119	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.88	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1120	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	56.81	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.58	
			<i>For >500, Deduct</i>	-3.10	
05 05 23 00-1121	EA		3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.72	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1122	EA		3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	70.06	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1123	EA		3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	70.85	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	
05 05 23 00-1124	EA		3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	72.82	
			<i>For >100 To 250, Deduct</i>	-2.11	
			<i>For >250 To 500, Deduct</i>	-2.63	
			<i>For >500, Deduct</i>	-3.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1126 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.00	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1127 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	24.56	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1128 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.18	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1129 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	29.77	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1130 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.38	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-1131 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	33.01	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1132 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.18	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1133 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	40.08	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1134 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	40.41	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1135 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	42.04	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1136 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.74	
For >100 To 250, Deduct	-2.23	
For >250 To 500, Deduct	-2.79	
For >500, Deduct	-3.35	
05 05 23 00-1137 EA 7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	61.99	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1138 EA 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	68.49	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1139 EA 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	71.70	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-2.85	
For >500, Deduct	-3.41	
05 05 23 00-1140 EA 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	76.07	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1141 EA 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	78.85	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1142 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	81.61	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1143 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	84.72	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-2.90	
For >500, Deduct	-3.48	
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1145 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.64	
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-1146 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.81	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1147	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	34.46	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-1148	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.69	
			<i>For >100 To 250, Deduct</i>	-2.15	
			<i>For >250 To 500, Deduct</i>	-2.69	
			<i>For >500, Deduct</i>	-3.23	
05 05 23 00-1149	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	40.41	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1150	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.28	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1151	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	46.18	
			<i>For >100 To 250, Deduct</i>	-2.19	
			<i>For >250 To 500, Deduct</i>	-2.74	
			<i>For >500, Deduct</i>	-3.29	
05 05 23 00-1152	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.30	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1153	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	56.79	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1154	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	64.17	
			<i>For >100 To 250, Deduct</i>	-2.23	
			<i>For >250 To 500, Deduct</i>	-2.79	
			<i>For >500, Deduct</i>	-3.35	
05 05 23 00-1155	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	74.47	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1156	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	82.96	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1157	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	84.18	
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-2.85	
			<i>For >500, Deduct</i>	-3.41	
05 05 23 00-1158	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	87.16	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1159	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	88.32	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1160	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	102.41	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1161	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	116.01	
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-2.90	
			<i>For >500, Deduct</i>	-3.48	
05 05 23 00-1162			Screws <small>(05 05 23)</small>		
05 05 23 00-1163			Teks® 5 Self Drilling Screws <small>(05 05 23 00-1162)</small>		
			Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1164	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	3.93	
			<i>For >10 To 50, Deduct</i>	-0.18	
			<i>For >50 To 100, Deduct</i>	-0.36	
			<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1165	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.08	
			<i>For >10 To 50, Deduct</i>	-0.18	
			<i>For >50 To 100, Deduct</i>	-0.37	
			<i>For >100, Deduct</i>	-0.73	
05 05 23 00-1166	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.53	
			<i>For >10 To 50, Deduct</i>	-0.19	
			<i>For >50 To 100, Deduct</i>	-0.39	
			<i>For >100, Deduct</i>	-0.79	
05 05 23 00-1167	EA		1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw	6.17	
			<i>For >10 To 50, Deduct</i>	-0.23	
			<i>For >50 To 100, Deduct</i>	-0.51	
			<i>For >100, Deduct</i>	-1.01	
05 05 23 00-1168	EA		1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw	6.59	
			<i>For >10 To 50, Deduct</i>	-0.25	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100, Deduct</i>	-1.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1169 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.02	
<i>For >10 To 50, Deduct</i>	-0.26	
<i>For >50 To 100, Deduct</i>	-0.59	
<i>For >100, Deduct</i>	-1.17	
05 05 23 00-1170 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.91	
<i>For >10 To 50, Deduct</i>	-0.27	
<i>For >50 To 100, Deduct</i>	-0.63	
<i>For >100, Deduct</i>	-1.25	
05 05 23 00-1171 Security Screws <small>(05 05 23 00-1162)</small>		
05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1171)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	3.10	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100, Deduct</i>	-0.60	
05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.50	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.84	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.96	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.18	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.59	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.62	
05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.75	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.09	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.19	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.69	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.73	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100, Deduct</i>	-0.63	
05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.88	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.34	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.66	
05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.96	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.64	
05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.06	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.50	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.67	
05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	5.20	
<i>For >10 To 50, Deduct</i>	-0.15	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	

05 05 23 00-1190

Threaded Rod (05 05 23)

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			washers.		
05 05 23 00-1191			Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1192	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.19	0.52
			<i>For Left Hand Threaded Rod, Add</i>	0.11	
05 05 23 00-1193	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.87	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.17	
05 05 23 00-1194	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.33	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.20	
05 05 23 00-1195	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.50	0.68
			<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1196	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.61	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.32	
05 05 23 00-1197	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.70	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.43	
05 05 23 00-1198	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.43	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.50	
05 05 23 00-1199	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.54	0.75
			<i>For Left Hand Threaded Rod, Add</i>	0.91	
05 05 23 00-1200	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.49	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.00	
05 05 23 00-1201	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.72	0.87
			<i>For Left Hand Threaded Rod, Add</i>	1.40	
05 05 23 00-1202	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	19.58	0.97
			<i>For Left Hand Threaded Rod, Add</i>	1.76	
05 05 23 00-1203	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.97	1.05
			<i>For Left Hand Threaded Rod, Add</i>	2.38	
05 05 23 00-1204	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	32.30	1.14
			<i>For Left Hand Threaded Rod, Add</i>	3.00	
05 05 23 00-1205	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	38.65	1.19
			<i>For Left Hand Threaded Rod, Add</i>	3.63	
05 05 23 00-1206	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	47.39	1.24
			<i>For Left Hand Threaded Rod, Add</i>	4.49	
05 05 23 00-1207	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	60.54	1.31
			<i>For Left Hand Threaded Rod, Add</i>	5.79	
05 05 23 00-1208			Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1209	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.20	0.52
			<i>For Left Hand Threaded Rod, Add</i>	0.12	
05 05 23 00-1210	LF		5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.25	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.21	
05 05 23 00-1211	LF		3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.62	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.23	
05 05 23 00-1212	LF		7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.21	0.68
			<i>For Left Hand Threaded Rod, Add</i>	0.39	
05 05 23 00-1213	LF		1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.61	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.42	
05 05 23 00-1214	LF		9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.33	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.59	
05 05 23 00-1215	LF		5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	7.79	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.64	
05 05 23 00-1216	LF		3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	11.71	0.75
			<i>For Left Hand Threaded Rod, Add</i>	1.02	
05 05 23 00-1217	LF		7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	15.17	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.36	
05 05 23 00-1218	LF		1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	20.36	0.87
			<i>For Left Hand Threaded Rod, Add</i>	1.86	
05 05 23 00-1219	LF		1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	26.29	0.97
			<i>For Left Hand Threaded Rod, Add</i>	2.44	
05 05 23 00-1220	LF		1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	31.36	1.05
			<i>For Left Hand Threaded Rod, Add</i>	2.92	
05 05 23 00-1221	LF		1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	35.65	1.14
			<i>For Left Hand Threaded Rod, Add</i>	3.34	
05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	44.90	1.19
			<i>For Left Hand Threaded Rod, Add</i>	4.25	
05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	55.63	1.24
			<i>For Left Hand Threaded Rod, Add</i>	5.31	
05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	81.16	1.31
			<i>For Left Hand Threaded Rod, Add</i>	7.86	
05 05 23 00-1225			Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	5.96	0.66
			<i>For Left Hand Threaded Rod, Add</i>	0.47	
05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	8.33	0.70
			<i>For Left Hand Threaded Rod, Add</i>	0.69	
05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	11.24	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.98	
05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	15.43	0.75
			<i>For Left Hand Threaded Rod, Add</i>	1.40	
05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	21.36	0.77
			<i>For Left Hand Threaded Rod, Add</i>	1.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1231 LF 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	27.57	0.87
<i>For Left Hand Threaded Rod, Add</i>	2.58	
05 05 23 00-1232 LF 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	36.27	0.97
<i>For Left Hand Threaded Rod, Add</i>	3.43	
05 05 23 00-1233 LF 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	47.70	1.05
<i>For Left Hand Threaded Rod, Add</i>	4.55	
05 05 23 00-1234 LF 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	53.30	1.14
<i>For Left Hand Threaded Rod, Add</i>	5.10	
05 05 23 00-1235 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	63.46	1.19
<i>For Left Hand Threaded Rod, Add</i>	6.11	
05 05 23 00-1236 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	77.09	1.24
<i>For Left Hand Threaded Rod, Add</i>	7.46	
05 05 23 00-1237 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	134.56	1.31
<i>For Left Hand Threaded Rod, Add</i>	13.20	
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1239 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.14	0.52
<i>For Left Hand Threaded Rod, Add</i>	0.21	
05 05 23 00-1240 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.73	0.57
<i>For Left Hand Threaded Rod, Add</i>	0.36	
05 05 23 00-1241 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.09	0.66
<i>For Left Hand Threaded Rod, Add</i>	0.48	
05 05 23 00-1242 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.46	0.68
<i>For Left Hand Threaded Rod, Add</i>	0.71	
05 05 23 00-1243 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	10.15	0.70
<i>For Left Hand Threaded Rod, Add</i>	0.88	
05 05 23 00-1244 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	14.59	0.71
<i>For Left Hand Threaded Rod, Add</i>	1.32	
05 05 23 00-1245 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	15.23	0.73
<i>For Left Hand Threaded Rod, Add</i>	1.38	
05 05 23 00-1246 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	21.34	0.75
<i>For Left Hand Threaded Rod, Add</i>	1.99	
05 05 23 00-1247 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	29.35	0.77
<i>For Left Hand Threaded Rod, Add</i>	2.78	
05 05 23 00-1248 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod	37.66	0.87
<i>For Left Hand Threaded Rod, Add</i>	3.59	
05 05 23 00-1249 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	79.74	1.05
<i>For Left Hand Threaded Rod, Add</i>	7.76	
05 05 23 00-1250 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	121.42	1.19
<i>For Left Hand Threaded Rod, Add</i>	11.90	
05 05 23 00-1251 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	124.89	1.24
<i>For Left Hand Threaded Rod, Add</i>	12.24	
05 05 23 00-1252 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod	172.82	1.31
<i>For Left Hand Threaded Rod, Add</i>	17.02	
05 05 23 00-1253 316 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1254 LF 1/4" Diameter, 316 Stainless Steel Threaded Rod	4.55	0.52
<i>For Left Hand Threaded Rod, Add</i>	0.35	
05 05 23 00-1255 LF 5/16" Diameter, 316 Stainless Steel Threaded Rod	7.34	0.57
<i>For Left Hand Threaded Rod, Add</i>	0.62	
05 05 23 00-1256 LF 3/8" Diameter, 316 Stainless Steel Threaded Rod	9.75	0.66
<i>For Left Hand Threaded Rod, Add</i>	0.84	
05 05 23 00-1257 LF 7/16" Diameter, 316 Stainless Steel Threaded Rod	15.22	0.68
<i>For Left Hand Threaded Rod, Add</i>	1.39	
05 05 23 00-1258 LF 1/2" Diameter, 316 Stainless Steel Threaded Rod	16.14	0.70
<i>For Left Hand Threaded Rod, Add</i>	1.48	
05 05 23 00-1259 LF 9/16" Diameter, 316 Stainless Steel Threaded Rod	21.17	0.71
<i>For Left Hand Threaded Rod, Add</i>	1.98	
05 05 23 00-1260 LF 5/8" Diameter, 316 Stainless Steel Threaded Rod	22.79	0.73
<i>For Left Hand Threaded Rod, Add</i>	2.14	
05 05 23 00-1261 LF 3/4" Diameter, 316 Stainless Steel Threaded Rod	33.23	0.75
<i>For Left Hand Threaded Rod, Add</i>	3.18	
05 05 23 00-1262 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod	45.49	0.77
<i>For Left Hand Threaded Rod, Add</i>	4.40	
05 05 23 00-1263 LF 1" Diameter, 316 Stainless Steel Threaded Rod	57.58	0.87
<i>For Left Hand Threaded Rod, Add</i>	5.58	
05 05 23 00-1264 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod	121.58	1.05
<i>For Left Hand Threaded Rod, Add</i>	11.94	
05 05 23 00-1265 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod	159.36	1.19
<i>For Left Hand Threaded Rod, Add</i>	15.70	
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1267 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	3.79	0.52
<i>For Zinc Plating, Add</i>	1.37	
05 05 23 00-1268 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod.....	5.85	0.57
<i>For Zinc Plating, Add</i>	2.35	
05 05 23 00-1269 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.12	0.66
<i>For Zinc Plating, Add</i>	2.41	
05 05 23 00-1270 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	6.68	0.68
<i>For Zinc Plating, Add</i>	2.67	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	7.36 2.99	0.70
05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	9.20 3.90	0.71
05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	9.50 4.03	0.73
05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	12.62 5.57	0.75
05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	15.13 6.80	0.77
05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	19.64 8.95	0.87
05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	25.57 11.82	0.97
05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	28.46 13.14	1.05
05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	32.85 15.29	1.14
05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	39.96 18.79	1.19
05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	41.31 19.41	1.24
05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	55.46 26.43	1.31

05 05 23 00-1283 Nuts And Washers (05 05 23)**05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)****05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)**

05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.65	0.29
05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.72	0.29
05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.29
05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.90	0.29
05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.99	0.29
05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.30	0.29
05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.35	0.29
05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.59	0.58
05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.34	0.58
05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.97	0.58
05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.85	0.58
05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.92	0.58
05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.72	0.58
05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	10.10	0.88
05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	14.83	0.88
05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	21.42	0.88

05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)

05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.67	0.29
05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.73	0.29
05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.80	0.29
05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.94	0.29
05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.10	0.29
05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.34	0.29
05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.37	0.29
05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.80	0.58
05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.55	0.58
05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.59	0.58
05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	5.47	0.58
05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	7.74	0.58
05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	11.36	0.58
05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	12.55	0.88
05 05 23 00-1317 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	22.65	0.88
05 05 23 00-1318 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	32.46	0.88

05 05 23 00-1319 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)

05 05 23 00-1320 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.68	0.29
05 05 23 00-1321 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.79	0.29
05 05 23 00-1322 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.86	0.29
05 05 23 00-1323 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.07	0.29
05 05 23 00-1324 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.29	0.29
05 05 23 00-1325 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.55	0.29
05 05 23 00-1326 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.76	0.29
05 05 23 00-1327 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.18	0.58
05 05 23 00-1328 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.28	0.58
05 05 23 00-1329 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.36	0.58
05 05 23 00-1330 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	6.83	0.58
05 05 23 00-1331 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.52	0.58
05 05 23 00-1332 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.03	0.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.89	0.88
05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	22.72	0.88
05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	32.10	0.88
05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.68	0.29
05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.77	0.29
05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.83	0.29
05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.05	0.29
05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.21	0.29
05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.35	0.29
05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.49	0.29
05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.99	0.58
05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.90	0.58
05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.99	0.58
05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	6.61	0.58
05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.47	0.58
05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.57	0.58
05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.67	0.88
05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	25.58	0.88
05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	44.24	0.88
05 05 23 00-1353 304 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut	0.75	0.29
05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut	0.88	0.29
05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut	0.99	0.29
05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut	1.45	0.29
05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut	1.58	0.29
05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut	2.37	0.29
05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut	2.64	0.29
05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut	3.03	0.58
05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut	4.93	0.58
05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut	7.54	0.58
05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut	18.03	0.58
05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut	34.57	0.88
05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut	60.73	0.88
05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut	86.51	0.88
05 05 23 00-1368 316 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut	0.87	0.29
05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut	0.99	0.29
05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut	1.17	0.29
05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut	1.90	0.29
05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut	2.04	0.29
05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut	2.76	0.29
05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut	3.11	0.29
05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut	4.32	0.58
05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut	5.99	0.58
05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut	9.22	0.58
05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut	27.91	0.58
05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut	45.11	0.88
05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut	76.08	0.88
05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut	141.35	0.88
05 05 23 00-1383 Flat Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers <small>(05 05 23 00-1383)</small>		
05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.05	
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.08	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.14	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.21	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.30	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.34	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.58	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.83	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.99	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.21	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.37	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.64	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.57	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.64	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.90	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.85	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers <small>(05 05 23 00-1383)</small>		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1402	EA		1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.18	
05 05 23 00-1403	EA		5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.24	
05 05 23 00-1404	EA		3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.28	
05 05 23 00-1405	EA		7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.38	
05 05 23 00-1406	EA		1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.52	
05 05 23 00-1407	EA		9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.83	
05 05 23 00-1408	EA		5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.19	
05 05 23 00-1409	EA		3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.68	
05 05 23 00-1410	EA		7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	2.80	
05 05 23 00-1411	EA		1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.10	
05 05 23 00-1412	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.52	
05 05 23 00-1413	EA		1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	4.93	
05 05 23 00-1414	EA		1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	6.50	
05 05 23 00-1415	EA		1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.43	
05 05 23 00-1416	EA		1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	9.99	
05 05 23 00-1417	EA		2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.99	
05 05 23 00-1418			Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1419	EA		1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.12	
05 05 23 00-1420	EA		5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.17	
05 05 23 00-1421	EA		3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.19	
05 05 23 00-1422	EA		7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.35	
05 05 23 00-1423	EA		1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.45	
05 05 23 00-1424	EA		9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.73	
05 05 23 00-1425	EA		5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.82	
05 05 23 00-1426	EA		3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.24	
05 05 23 00-1427	EA		7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.75	
05 05 23 00-1428	EA		1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.92	
05 05 23 00-1429	EA		1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.93	
05 05 23 00-1430	EA		1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.26	
05 05 23 00-1431	EA		1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	4.66	
05 05 23 00-1432	EA		1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.05	
05 05 23 00-1433	EA		1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	7.33	
05 05 23 00-1434			304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1435	EA		1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.13	
05 05 23 00-1436	EA		5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.17	
05 05 23 00-1437	EA		3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1438	EA		7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.46	
05 05 23 00-1439	EA		1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.83	
05 05 23 00-1440	EA		9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.04	
05 05 23 00-1441	EA		5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.53	
05 05 23 00-1442	EA		3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.55	
05 05 23 00-1443	EA		7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	3.27	
05 05 23 00-1444	EA		1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.15	
05 05 23 00-1445	EA		1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.83	
05 05 23 00-1446	EA		1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.20	
05 05 23 00-1447	EA		1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	5.49	
05 05 23 00-1448	EA		1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.70	
05 05 23 00-1449	EA		1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	8.32	
05 05 23 00-1450	EA		2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	16.35	
05 05 23 00-1451			316 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1452	EA		1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.25	
05 05 23 00-1453	EA		5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.28	
05 05 23 00-1454	EA		3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.49	
05 05 23 00-1455	EA		7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.58	
05 05 23 00-1456	EA		1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.08	
05 05 23 00-1457	EA		9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.94	
05 05 23 00-1458	EA		5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.29	
05 05 23 00-1459	EA		3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.88	
05 05 23 00-1460	EA		7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.46	
05 05 23 00-1461	EA		1" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.99	
05 05 23 00-1462	EA		1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	5.69	
05 05 23 00-1463	EA		1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.00	
05 05 23 00-1464	EA		1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.40	
05 05 23 00-1465	EA		1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.57	
05 05 23 00-1466	EA		1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	11.09	
05 05 23 00-1467			Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468			Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470	EA		5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1471	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.05	
05 05 23 00-1472	EA		7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.08	
05 05 23 00-1473	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.19	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.22	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.33	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.55	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.99	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.45	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.23	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.52	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.14	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	7.39	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.33	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.14	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.16	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.25	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.32	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.38	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.64	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.92	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.45	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.62	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.13	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.52	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.17	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	7.00	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	9.53	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.11	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.40	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.44	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.07	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.26	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.47	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.66	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.76	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	6.56	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	8.72	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	11.09	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	13.31	
05 05 23 00-1517 316 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.13	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.29	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.34	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.58	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.64	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.14	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.25	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	2.16	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	3.58	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	4.87	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	6.79	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	10.46	
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	18.72	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	20.79	
05 05 23 00-1532 Load Indicating Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1532)</small>		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1533)</small>		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.41	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.73	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.94	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.34	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.04	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.72	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.67	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.07	

05 Metals

05 05 Common Work Results for Metals

05 05 23 Metal Fastenings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.18	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.05	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.40	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.30	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.04	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.78	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.21	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.07	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.91	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	14.20	
05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.98	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.06	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.16	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	5.05	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	5.32	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.73	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.98	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.98	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.33	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.73	
05 05 23 00-1567 Drilling In Steel Plates (05 05 23)		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	19.00	
For Aluminum, Deduct	-1.90	
For Stainless Steel, Add	2.38	
For >5 To 10, Deduct	-1.90	
For >10 To 25, Deduct	-4.75	
For >25 To 50, Deduct	-6.65	
For >50, Deduct	-9.50	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	22.35	
For Aluminum, Deduct	-2.24	
For Stainless Steel, Add	2.79	
For >5 To 10, Deduct	-2.24	
For >10 To 25, Deduct	-5.59	
For >25 To 50, Deduct	-7.82	
For >50, Deduct	-11.18	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	26.81	
For Aluminum, Deduct	-2.68	
For Stainless Steel, Add	3.35	
For >5 To 10, Deduct	-2.68	
For >10 To 25, Deduct	-6.70	
For >25 To 50, Deduct	-9.38	
For >50, Deduct	-13.41	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	31.29	
For Aluminum, Deduct	-3.13	
For Stainless Steel, Add	3.91	
For >5 To 10, Deduct	-3.13	
For >10 To 25, Deduct	-7.82	
For >25 To 50, Deduct	-10.95	
For >50, Deduct	-15.65	
05 05 23 00-1572 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	41.91	
For Aluminum, Deduct	-4.19	
For Stainless Steel, Add	5.24	
For >5 To 10, Deduct	-4.19	
For >10 To 25, Deduct	-10.48	
For >25 To 50, Deduct	-14.67	
For >50, Deduct	-20.96	
05 05 23 00-1573 EA Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	22.35	
For Aluminum, Deduct	-2.24	
For Stainless Steel, Add	2.79	
For >5 To 10, Deduct	-2.24	
For >10 To 25, Deduct	-5.59	
For >25 To 50, Deduct	-7.82	
For >50, Deduct	-11.18	
05 05 23 00-1574 EA >1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	27.93	
For Aluminum, Deduct	-2.79	
For Stainless Steel, Add	3.49	
For >5 To 10, Deduct	-2.79	
For >10 To 25, Deduct	-6.98	
For >25 To 50, Deduct	-9.78	
For >50, Deduct	-13.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1575 EA >7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	33.52	
<i>For Aluminum, Deduct</i>	-3.35	
<i>For Stainless Steel, Add</i>	4.19	
<i>For >5 To 10, Deduct</i>	-3.35	
<i>For >10 To 25, Deduct</i>	-8.38	
<i>For >25 To 50, Deduct</i>	-11.73	
<i>For >50, Deduct</i>	-16.76	
05 05 23 00-1576 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	41.91	
<i>For Aluminum, Deduct</i>	-4.19	
<i>For Stainless Steel, Add</i>	5.24	
<i>For >5 To 10, Deduct</i>	-4.19	
<i>For >10 To 25, Deduct</i>	-10.48	
<i>For >25 To 50, Deduct</i>	-14.67	
<i>For >50, Deduct</i>	-20.96	
05 05 23 00-1577 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	27.93	
<i>For Aluminum, Deduct</i>	-2.79	
<i>For Stainless Steel, Add</i>	3.49	
<i>For >5 To 10, Deduct</i>	-2.79	
<i>For >10 To 25, Deduct</i>	-6.98	
<i>For >25 To 50, Deduct</i>	-9.78	
<i>For >50, Deduct</i>	-13.97	
05 05 23 00-1578 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	36.87	
<i>For Aluminum, Deduct</i>	-3.69	
<i>For Stainless Steel, Add</i>	4.61	
<i>For >5 To 10, Deduct</i>	-3.69	
<i>For >10 To 25, Deduct</i>	-9.22	
<i>For >25 To 50, Deduct</i>	-12.90	
<i>For >50, Deduct</i>	-18.44	
05 05 23 00-1579 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	44.70	
<i>For Aluminum, Deduct</i>	-4.47	
<i>For Stainless Steel, Add</i>	5.59	
<i>For >5 To 10, Deduct</i>	-4.47	
<i>For >10 To 25, Deduct</i>	-11.18	
<i>For >25 To 50, Deduct</i>	-15.65	
<i>For >50, Deduct</i>	-22.35	

05 05 23 00-1580 Welded Stud Anchors (05 05 23)

05 05 23 00-1581 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.62
05 05 23 00-1582 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.69
05 05 23 00-1583 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.72
05 05 23 00-1584 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	3.75
05 05 23 00-1585 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.61
05 05 23 00-1586 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.78
05 05 23 00-1587 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	3.95
05 05 23 00-1588 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.04
05 05 23 00-1589 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.13
05 05 23 00-1590 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.49
05 05 23 00-1591 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.78
05 05 23 00-1592 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.02
05 05 23 00-1593 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.37
05 05 23 00-1594 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.39
05 05 23 00-1595 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.66
05 05 23 00-1596 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	4.92
05 05 23 00-1597 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.23
05 05 23 00-1598 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.71
05 05 23 00-1599 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.03
05 05 23 00-1600 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.88
05 05 23 00-1601 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.50
05 05 23 00-1602 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.10
05 05 23 00-1603 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.51
05 05 23 00-1604 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	6.84
05 05 23 00-1605 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.18
05 05 23 00-1606 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.45
05 05 23 00-1607 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.70
05 05 23 00-1608 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.03
05 05 23 00-1609 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.42
05 05 23 00-1610 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	11.33

05 05 23 00-1611 Welded Shear Stud Connector (05 05 23)

05 05 23 00-1612 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1611)

05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	7.76
05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	8.05
05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	8.13
05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	8.17
05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	8.50
05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	9.11
05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	14.97
05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	9.81
05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	10.88
05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	14.49

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	14.82	
05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	15.99	
05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	20.90	
05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	9.22	
05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	9.69	
05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	10.16	
05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	11.50	
05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	15.21	
05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	16.63	
05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	18.04	
05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	21.97	
05 05 23 00-1635 1" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	12.28	
05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	13.72	
05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	15.85	
05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	20.53	
05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	22.75	
05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	24.98	

05 10 Structural Metal Framing (05)**05 12 Structural Steel Framing (05 10)****05 12 23 Structural Steel for Buildings (05 12)**

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

05 12 23 00-0001 Rolled Steel Members (05 12 23)

Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.

05 12 23 00-0002 Beams, Girders And Columns (05 12 23 00-0001)

Note: For one and two story I beams and W shapes and HP shapes.

05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	7,829.45	1,209.64
For ASTM A242 Type 2 High Strength Steel, Add	426.16	
For Hot Dip Galvanizing, Add	1,491.55	
For >10 To 25 Tons, Deduct	-452.79	
For >25 To 50 Tons, Deduct	-932.22	
For >50 Tons, Deduct	-1,331.74	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns.....	5,206.05	781.95
For ASTM A242 Type 2 High Strength Steel, Add	349.75	
For Hot Dip Galvanizing, Add	1,224.13	
For >10 To 25 Tons, Deduct	-371.61	
For >25 To 50 Tons, Deduct	-765.08	
For >50 Tons, Deduct	-1,092.97	
05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns.....	4,350.51	439.89
For ASTM A242 Type 2 High Strength Steel, Add	310.50	
For Hot Dip Galvanizing, Add	1,086.76	
For >10 To 25 Tons, Deduct	-329.91	
For >25 To 50 Tons, Deduct	-679.23	
For >50 Tons, Deduct	-970.32	
05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns.....	2,903.56	234.14
For ASTM A242 Type 2 High Strength Steel, Add	212.27	
For Hot Dip Galvanizing, Add	742.93	
For >10 To 25 Tons, Deduct	-225.53	
For >25 To 50 Tons, Deduct	-464.33	
For >50 Tons, Deduct	-663.33	

05 12 23 00-0007 Trusses, Built-Up (05 12 23 00-0001)

05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members.....	5,521.80	822.65
For ASTM A242 Type 2 High Strength Steel, Add	371.58	
For Hot Dip Galvanizing, Add	1,300.53	
For >10 To 25 Tons, Deduct	-394.80	
For >25 To 50 Tons, Deduct	-812.83	
For >50 Tons, Deduct	-1,161.19	

05 12 23 00-0009 Shapes (05 12 23 00-0001)**05 12 23 00-0010 Rolled Shape Steel Angles (05 12 23 00-0009)**



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles.....	11,440.74	2,248.71
For ASTM A242 Type 2 High Strength Steel, Add	615.43	
For Hot Dip Galvanizing, Add	2,154.01	
For >10 To 25 Tons, Deduct	-653.90	
For >25 To 50 Tons, Deduct	-1,346.26	
For >50 Tons, Deduct	-1,923.22	
05 12 23 00-0012 TON >10 To 20 LB/LF Rolled Shape Steel Angles	9,861.53	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	588.72	
For Hot Dip Galvanizing, Add	2,060.53	
For >10 To 25 Tons, Deduct	-625.52	
For >25 To 50 Tons, Deduct	-1,287.83	
For >50 Tons, Deduct	-1,839.76	
05 12 23 00-0013 TON >20 To 58 LB/LF Rolled Shape Steel Angles	7,307.66	781.95
For ASTM A242 Type 2 High Strength Steel, Add	517.89	
For Hot Dip Galvanizing, Add	1,812.62	
For >10 To 25 Tons, Deduct	-550.26	
For >25 To 50 Tons, Deduct	-1,132.89	
For >50 Tons, Deduct	-1,618.41	
05 12 23 00-0014 Rolled C, MC Steel Channels (05 12 23 00-0009)		
05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels.....	12,732.98	3,079.22
For ASTM A242 Type 2 High Strength Steel, Add	606.14	
For Hot Dip Galvanizing, Add	2,121.50	
For >10 To 25 Tons, Deduct	-644.03	
For >25 To 50 Tons, Deduct	-1,325.93	
For >50 Tons, Deduct	-1,894.19	
05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels.....	9,759.92	2,346.07
For ASTM A242 Type 2 High Strength Steel, Add	580.60	
For Hot Dip Galvanizing, Add	2,032.08	
For >10 To 25 Tons, Deduct	-616.88	
For >25 To 50 Tons, Deduct	-1,270.05	
For >50 Tons, Deduct	-1,814.36	
05 12 23 00-0017 TON >20 To 58 LB/LF Rolled C, MC Steel Channels	7,191.54	781.95
For ASTM A242 Type 2 High Strength Steel, Add	508.60	
For Hot Dip Galvanizing, Add	1,780.11	
For >10 To 25 Tons, Deduct	-540.39	
For >25 To 50 Tons, Deduct	-1,112.57	
For >50 Tons, Deduct	-1,589.38	
05 12 23 00-0018 Double L Shape Steel Angles (05 12 23 00-0009)		
05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles.....	10,525.81	1,784.19
For ASTM A242 Type 2 High Strength Steel, Add	592.21	
For Hot Dip Galvanizing, Add	2,072.73	
For >10 To 25 Tons, Deduct	-629.22	
For >25 To 50 Tons, Deduct	-1,295.45	
For >50 Tons, Deduct	-1,850.65	
05 12 23 00-0020 TON >20 To 50 LB/LF Double L Shape Steel Angles	7,801.17	781.95
For ASTM A242 Type 2 High Strength Steel, Add	557.37	
For Hot Dip Galvanizing, Add	1,950.80	
For >10 To 25 Tons, Deduct	-592.21	
For >25 To 50 Tons, Deduct	-1,219.25	
For >50 Tons, Deduct	-1,741.79	
05 12 23 00-0021 TON >50 To 80 LB/LF Double L Shape Steel Angles	5,839.73	439.89
For ASTM A242 Type 2 High Strength Steel, Add	429.64	
For Hot Dip Galvanizing, Add	1,503.74	
For >10 To 25 Tons, Deduct	-456.49	
For >25 To 50 Tons, Deduct	-939.84	
For >50 Tons, Deduct	-1,342.63	
05 12 23 00-0022 TON >80 To 115 LB/LF Double L Shape Steel Angles	3,733.42	234.49
For ASTM A242 Type 2 High Strength Steel, Add	278.69	
For Hot Dip Galvanizing, Add	975.40	
For >10 To 25 Tons, Deduct	-296.10	
For >25 To 50 Tons, Deduct	-609.62	
For >50 Tons, Deduct	-870.89	
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes (05 12 23 00-0001)		
05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes.....	9,469.63	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	557.37	
For Hot Dip Galvanizing, Add	1,950.80	
For >10 To 25 Tons, Deduct	-592.21	
For >25 To 50 Tons, Deduct	-1,219.25	
For >50 Tons, Deduct	-1,741.79	
05 12 23 00-0025 TON >30 To 65 LB/LF Structural WT, MT, ST Tee Shapes	6,161.12	781.95
For ASTM A242 Type 2 High Strength Steel, Add	426.16	
For Hot Dip Galvanizing, Add	1,491.55	
For >10 To 25 Tons, Deduct	-452.79	
For >25 To 50 Tons, Deduct	-932.22	
For >50 Tons, Deduct	-1,331.74	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65 To 100 LB/LF Structural WT, MT, ST Tee Shapes	4,823.69	439.89
For ASTM A242 Type 2 High Strength Steel, Add	348.36	
For Hot Dip Galvanizing, Add	1,219.25	
For >10 To 25 Tons, Deduct	-370.13	
For >25 To 50 Tons, Deduct	-762.03	
For >50 Tons, Deduct	-1,088.62	
05 12 23 00-0027 TON >100 To 365 LB/LF Structural WT, MT, ST Tee Shapes	3,530.60	234.14
For ASTM A242 Type 2 High Strength Steel, Add	262.43	
For Hot Dip Galvanizing, Add	918.50	
For >10 To 25 Tons, Deduct	-278.83	
For >25 To 50 Tons, Deduct	-574.06	
For >50 Tons, Deduct	-820.09	
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles	9,019.66	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	521.37	
For Hot Dip Galvanizing, Add	1,824.81	
For >10 To 25 Tons, Deduct	-553.96	
For >25 To 50 Tons, Deduct	-1,140.51	
For >50 Tons, Deduct	-1,629.30	
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles	6,204.68	781.95
For ASTM A242 Type 2 High Strength Steel, Add	429.64	
For Hot Dip Galvanizing, Add	1,503.75	
For >10 To 25 Tons, Deduct	-456.49	
For >25 To 50 Tons, Deduct	-939.84	
For >50 Tons, Deduct	-1,342.63	
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles	4,460.81	439.89
For ASTM A242 Type 2 High Strength Steel, Add	319.33	
For Hot Dip Galvanizing, Add	1,117.65	
For >10 To 25 Tons, Deduct	-339.29	
For >25 To 50 Tons, Deduct	-698.53	
For >50 Tons, Deduct	-997.90	
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles	3,820.52	234.14
For ASTM A242 Type 2 High Strength Steel, Add	285.65	
For Hot Dip Galvanizing, Add	999.79	
For >10 To 25 Tons, Deduct	-303.51	
For >25 To 50 Tons, Deduct	-624.87	
For >50 Tons, Deduct	-892.67	
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles	3,274.86	117.54
For ASTM A242 Type 2 High Strength Steel, Add	251.98	
For Hot Dip Galvanizing, Add	881.93	
For >10 To 25 Tons, Deduct	-267.73	
For >25 To 50 Tons, Deduct	-551.20	
For >50 Tons, Deduct	-787.44	
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	5,972.43	781.95
For ASTM A242 Type 2 High Strength Steel, Add	411.06	
For Hot Dip Galvanizing, Add	1,438.72	
For >10 To 25 Tons, Deduct	-436.75	
For >25 To 50 Tons, Deduct	-899.20	
For >50 Tons, Deduct	-1,284.57	
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	4,475.33	439.89
For ASTM A242 Type 2 High Strength Steel, Add	320.49	
For Hot Dip Galvanizing, Add	1,121.71	
For >10 To 25 Tons, Deduct	-340.52	
For >25 To 50 Tons, Deduct	-701.07	
For >50 Tons, Deduct	-1,001.53	
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	9,469.63	1,319.66
For ASTM A242 Type 2 High Strength Steel, Add	557.37	
For Hot Dip Galvanizing, Add	1,950.80	
For >10 To 25 Tons, Deduct	-592.21	
For >25 To 50 Tons, Deduct	-1,219.25	
For >50 Tons, Deduct	-1,741.79	
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	6,494.97	781.95
For ASTM A242 Type 2 High Strength Steel, Add	452.86	
For Hot Dip Galvanizing, Add	1,585.03	
For >10 To 25 Tons, Deduct	-481.17	
For >25 To 50 Tons, Deduct	-990.64	
For >50 Tons, Deduct	-1,415.20	
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	4,576.93	439.89
For ASTM A242 Type 2 High Strength Steel, Add	328.62	
For Hot Dip Galvanizing, Add	1,150.16	
For >10 To 25 Tons, Deduct	-349.16	
For >25 To 50 Tons, Deduct	-718.85	
For >50 Tons, Deduct	-1,026.93	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....	5,279.39	703.82
For ASTM A242 Type 2 High Strength Steel, Add	362.29	
For Hot Dip Galvanizing, Add	1,268.02	
For >10 To 25 Tons, Deduct	-384.94	
For >25 To 50 Tons, Deduct	-792.51	
For >50 Tons, Deduct	-1,132.16	
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....	5,670.28	879.78
For ASTM A242 Type 2 High Strength Steel, Add	378.55	
For Hot Dip Galvanizing, Add	1,324.92	
For >10 To 25 Tons, Deduct	-402.21	
For >25 To 50 Tons, Deduct	-828.07	
For >50 Tons, Deduct	-1,182.96	
05 12 23 00-0045 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0117 for field fabrication of additional structural metal connections.		
05 12 23 00-0046 Steel Rods <small>(05 12 23 00-0045)</small>		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....	5,637.70	549.92
For ASTM A242 Type 2 High Strength Steel, Add	404.09	
For Hot Dip Galvanizing, Add	1,414.33	
For >10 To 25 Tons, Deduct	-429.35	
For >25 To 50 Tons, Deduct	-883.96	
For >50 Tons, Deduct	-1,262.80	
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid.....	6,494.97	781.95
For ASTM A242 Type 2 High Strength Steel, Add	452.86	
For Hot Dip Galvanizing, Add	1,585.03	
For >10 To 25 Tons, Deduct	-481.17	
For >25 To 50 Tons, Deduct	-990.64	
For >50 Tons, Deduct	-1,415.20	
05 12 23 00-0049 Column Base Plates <small>(05 12 23 00-0045)</small>		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items.....	2.96	0.74
For ASTM A242 Type 2 High Strength Steel, Add	0.17	
For Hot Dip Galvanizing, Add	0.61	
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items.....	2.77	0.62
For ASTM A242 Type 2 High Strength Steel, Add	0.17	
For Hot Dip Galvanizing, Add	0.58	
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items.....	5,186.36	652.83
For ASTM A242 Type 2 High Strength Steel, Add	359.20	
For Hot Dip Galvanizing, Add	1,257.20	
For >10 To 25 Tons, Deduct	-381.65	
For >25 To 50 Tons, Deduct	-785.75	
For >50 Tons, Deduct	-1,122.50	
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items.....	3,665.38	391.70
For ASTM A242 Type 2 High Strength Steel, Add	259.80	
For Hot Dip Galvanizing, Add	909.32	
For >10 To 25 Tons, Deduct	-276.04	
For >25 To 50 Tons, Deduct	-568.32	
For >50 Tons, Deduct	-811.89	
05 12 23 00-0054 Double Extra Strong Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0055 TON 2" To 5" Diameter Double Extra Strong Pipe.....	6,849.42	1,005.41
For ASTM A242 Type 2 High Strength Steel, Add	462.15	
For Hot Dip Galvanizing, Add	1,617.54	
For >10 To 25 Tons, Deduct	-491.04	
For >25 To 50 Tons, Deduct	-1,010.96	
For >50 Tons, Deduct	-1,444.23	
05 12 23 00-0056 TON >5" To 8" Diameter Double Extra Strong Pipe.....	6,354.42	541.35
For ASTM A242 Type 2 High Strength Steel, Add	462.15	
For Hot Dip Galvanizing, Add	1,617.54	
For >10 To 25 Tons, Deduct	-491.04	
For >25 To 50 Tons, Deduct	-1,010.96	
For >50 Tons, Deduct	-1,444.23	
05 12 23 00-0057 Structural Pipes <small>(05 12 23 00-0045)</small>		
05 12 23 00-0058 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items.....	4,778.89	464.53
For ASTM A242 Type 2 High Strength Steel, Add	325.13	
For Hot Dip Galvanizing, Add	1,137.97	
For >10 To 25 Tons, Deduct	-345.45	
For >25 To 50 Tons, Deduct	-711.23	
For >50 Tons, Deduct	-1,016.04	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0059	TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,246.07 325.13 1,137.97 -345.45 -711.23 -1,016.04	535.73
05 12 23 00-0060	Structural Tubing (05 12 23 00-0045)		
05 12 23 00-0061	Rectangle Structural Tubing (05 12 23 00-0060)		
05 12 23 00-0062	TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,757.94 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	469.22
05 12 23 00-0063	TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,834.93 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	541.35
05 12 23 00-0064	TON 5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,867.02 499.31 1,747.59 -530.52 -1,092.25 -1,560.35	586.52
05 12 23 00-0065	TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,556.70 464.48 1,625.67 -493.51 -1,016.04 -1,451.49	703.82
05 12 23 00-0066	TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,204.67 429.64 1,503.74 -456.49 -939.84 -1,342.63	781.95
05 12 23 00-0067	TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,524.79 429.64 1,503.74 -456.49 -939.84 -1,342.63	1,082.13
05 12 23 00-0068	TON 10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,012.53 438.93 1,536.26 -466.36 -960.16 -1,371.66	1,430.52
05 12 23 00-0069	TON 12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,211.53 443.58 1,552.51 -471.30 -970.32 -1,386.17	1,562.61
05 12 23 00-0070	TON 14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,421.55 443.58 1,552.51 -471.30 -970.32 -1,386.17	1,759.56
05 12 23 00-0071	TON 16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,429.62 438.93 1,536.26 -466.36 -960.16 -1,371.66	3,696.59
05 12 23 00-0072	TON 18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,843.96 427.32 1,495.61 -454.03 -934.76 -1,335.37	2,346.07
05 12 23 00-0073	TON 20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,389.02 450.54 1,576.90 -478.70 -985.56 -1,407.95	5,397.49
05 12 23 00-0074	Square Structural Tubing (05 12 23 00-0060)		



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0075 TON 2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,726.66 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	439.89
05 12 23 00-0076 TON 2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,757.94 580.60 2,032.08 -616.88 -1,270.05 -1,814.36	469.22
05 12 23 00-0077 TON 3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	7,012.17 510.92 1,788.23 -542.86 -1,117.65 -1,596.64	586.52
05 12 23 00-0078 TON 3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,992.14 499.31 1,747.59 -530.52 -1,092.25 -1,560.35	703.82
05 12 23 00-0079 TON 4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,699.31 380.87 1,333.05 -404.67 -833.15 -1,190.22	879.78
05 12 23 00-0080 TON 5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,833.37 380.87 1,333.05 -404.67 -833.15 -1,190.22	1,005.41
05 12 23 00-0081 TON 6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,262.37 380.87 1,333.05 -404.67 -833.15 -1,190.22	1,407.65
05 12 23 00-0082 TON 7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	6,724.83 387.84 1,357.43 -412.08 -848.39 -1,211.99	1,759.56
05 12 23 00-0083 TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,134.26 450.54 1,576.90 -478.70 -985.56 -1,407.95	2,346.07
05 12 23 00-0084 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,385.50 450.54 1,576.90 -478.70 -985.56 -1,407.95	3,519.11
05 12 23 00-0085 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,253.74 387.84 1,357.43 -412.08 -848.39 -1,211.99	4,130.38
05 12 23 00-0086 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,272.90 441.25 1,544.38 -468.83 -965.24 -1,378.92	5,397.49
05 12 23 00-0087 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,139.22 450.54 1,576.90 -478.70 -985.56 -1,407.95	7,038.22

05 12 23 00-0088 Structural Shapes (05 12 23 00-0045)

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0089	TON		Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF).....	8,270.07	2,611.34
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	330.01	
			<i>For Hot Dip Galvanizing, Add</i>	1,155.02	
			<i>For >20 To 50 LB/LF, Deduct</i>	-1,034.26	
			<i>For >50 To 75 LB/LF, Deduct</i>	-1,655.01	
			<i>For >75 To 100 LB/LF, Deduct</i>	-2,275.76	
			<i>For >10 To 25 Tons, Deduct</i>	-350.63	
			<i>For >25 To 50 Tons, Deduct</i>	-721.89	
			<i>For >50 Tons, Deduct</i>	-1,031.27	
05 12 23 00-0090	TON		Structural Shapes, Steel Plate A36 Structural Steel	6,033.87	1,044.54
			Note: Up to 21.5 LB per SF		
			<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	371.59	
			<i>For Hot Dip Galvanizing, Add</i>	1,300.56	
			<i>For >21.5 To 50 LB/LF, Deduct</i>	-672.84	
			<i>For >10 To 25 Tons, Deduct</i>	-394.81	
			<i>For >25 To 50 Tons, Deduct</i>	-812.85	
			<i>For >50 Tons, Deduct</i>	-1,161.22	
05 12 23 00-0091	LB		Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF)	3.49	0.23
05 12 23 00-0092	LB		Structural Shapes, Galvanized Pipe Supports	4.21	0.23
05 12 23 00-0093			Built-Up Trusses (05 12 23 00-0045)		
05 12 23 00-0094	TON		Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up	6,282.93	351.91
			<i>For >10 To 25 Tons, Deduct</i>	-502.14	
			<i>For >25 To 50 Tons, Deduct</i>	-1,033.82	
			<i>For >50 Tons, Deduct</i>	-1,476.89	
05 12 23 00-0095	TON		>50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up	6,174.16	195.43
			<i>For >10 To 25 Tons, Deduct</i>	-507.08	
			<i>For >25 To 50 Tons, Deduct</i>	-1,043.98	
			<i>For >50 Tons, Deduct</i>	-1,491.41	
05 12 23 00-0096	TON		>100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up	5,480.92	103.46
			<i>For >10 To 25 Tons, Deduct</i>	-456.49	
			<i>For >25 To 50 Tons, Deduct</i>	-939.84	
			<i>For >50 Tons, Deduct</i>	-1,342.63	
05 12 23 00-0097	TON		>200 LF Span Average Weight 180 LB/LF Trusses, Built-up	5,329.63	97.83
			<i>For >10 To 25 Tons, Deduct</i>	-444.16	
			<i>For >25 To 50 Tons, Deduct</i>	-914.44	
			<i>For >50 Tons, Deduct</i>	-1,306.34	
05 12 23 00-0098			Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045)		
			Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099	SF		1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	22.69	7.52
05 12 23 00-0100	SF		3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	34.05	11.25
05 12 23 00-0101	SF		1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	45.39	15.00
05 12 23 00-0102	SF		5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	56.74	18.74
05 12 23 00-0103	SF		3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	68.08	22.38
05 12 23 00-0104	SF		7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	79.43	26.24
05 12 23 00-0105	SF		1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	90.78	29.99
05 12 23 00-0106	SF		1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	102.13	33.74
05 12 23 00-0107	SF		1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	113.48	37.49
05 12 23 00-0108	SF		1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	124.82	41.24
05 12 23 00-0109	SF		1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	136.17	44.99
05 12 23 00-0110	SF		1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	147.52	48.74
05 12 23 00-0111	SF		1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	158.88	52.48
05 12 23 00-0112	SF		1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	170.22	56.23
05 12 23 00-0113	SF		2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	181.57	59.98
05 12 23 00-0114			Accessories For Steel (05 12 23)		
05 12 23 00-0115			Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)		
05 12 23 00-0116	SF		Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.06	
05 12 23 00-0117			Connection And Stiffener Plates (05 12 23 00-0114)		
			Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118	TON		1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates	13,409.26	
			<i>For >10 To 25 Tons, Deduct</i>	-1,139.79	
			<i>For >25 To 50 Tons, Deduct</i>	-2,346.62	
			<i>For >50 Tons, Deduct</i>	-3,352.32	
05 12 23 00-0119	TON		3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates	11,440.73	
			<i>For >10 To 25 Tons, Deduct</i>	-972.46	
			<i>For >25 To 50 Tons, Deduct</i>	-2,002.13	
			<i>For >50 Tons, Deduct</i>	-2,860.18	
05 12 23 00-0120	TON		1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates	8,847.35	
			<i>For >10 To 25 Tons, Deduct</i>	-752.02	
			<i>For >25 To 50 Tons, Deduct</i>	-1,548.29	
			<i>For >50 Tons, Deduct</i>	-2,211.84	
05 12 23 00-0121	TON		5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates	8,847.35	
			<i>For >10 To 25 Tons, Deduct</i>	-752.02	
			<i>For >25 To 50 Tons, Deduct</i>	-1,548.29	
			<i>For >50 Tons, Deduct</i>	-2,211.84	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	8,847.35	
For >10 To 25 Tons, Deduct	-752.02	
For >25 To 50 Tons, Deduct	-1,548.29	
For >50 Tons, Deduct	-2,211.84	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	8,294.39	
For >10 To 25 Tons, Deduct	-705.02	
For >25 To 50 Tons, Deduct	-1,451.52	
For >50 Tons, Deduct	-2,073.60	
05 12 23 00-0129 Field Applied Cold Galvanizing (05 12 23 00-0114)		
05 12 23 00-0130 SF Brush Applied Cold Galvanizing		1.99
05 12 23 00-0131 Metal Grinding (05 12 23 00-0114)		
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0132 SI Metal Grinding Up To 1/32" Thickness To Be Removed.....		1.20
Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0133 Structural Steel For Buildings And Structures (05 12 23)		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0134 First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0133)		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0135 LF W14 x 730 A992/A36 Structural Column	1,274.66	72.43
For Hot Dip Galvanizing, Add	332.29	
For High Strength Low Alloy A572-50 Steel, Add	114.72	
For High Strength Low Alloy A588 Grade B Steel, Add	254.93	
05 12 23 00-0136 LF W14 x 665 A992/A36 Structural Column	1,162.79	67.51
For Hot Dip Galvanizing, Add	302.71	
For High Strength Low Alloy A572-50 Steel, Add	104.65	
For High Strength Low Alloy A588 Grade B Steel, Add	232.56	
05 12 23 00-0137 LF W14 x 605 A992/A36 Structural Column	1,059.41	62.84
For Hot Dip Galvanizing, Add	275.39	
For High Strength Low Alloy A572-50 Steel, Add	95.35	
For High Strength Low Alloy A588 Grade B Steel, Add	211.88	
05 12 23 00-0138 LF W14 x 550 A992/A36 Structural Column	964.51	58.45
For Hot Dip Galvanizing, Add	250.36	
For High Strength Low Alloy A572-50 Steel, Add	86.81	
For High Strength Low Alloy A588 Grade B Steel, Add	192.90	
05 12 23 00-0139 LF W14 x 500 A992/A36 Structural Column	885.26	61.00
For Hot Dip Galvanizing, Add	227.60	
For High Strength Low Alloy A572-50 Steel, Add	79.67	
For High Strength Low Alloy A588 Grade B Steel, Add	177.05	
05 12 23 00-0140 LF W14 x 426 A992/A36 Structural Column	755.53	53.25
For Hot Dip Galvanizing, Add	193.91	
For High Strength Low Alloy A572-50 Steel, Add	68.00	
For High Strength Low Alloy A588 Grade B Steel, Add	151.11	
05 12 23 00-0141 LF W14 x 342 A992/A36 Structural Column	611.51	46.10
For Hot Dip Galvanizing, Add	156.07	
For High Strength Low Alloy A572-50 Steel, Add	55.04	
For High Strength Low Alloy A588 Grade B Steel, Add	122.30	
05 12 23 00-0142 LF W14 x 311 A992/A36 Structural Column	551.06	43.05
For Hot Dip Galvanizing, Add	140.17	
For High Strength Low Alloy A572-50 Steel, Add	49.60	
For High Strength Low Alloy A588 Grade B Steel, Add	110.21	
05 12 23 00-0143 LF W14 x 283 A992/A36 Structural Column	500.45	40.59
For Hot Dip Galvanizing, Add	126.88	
For High Strength Low Alloy A572-50 Steel, Add	45.04	
For High Strength Low Alloy A588 Grade B Steel, Add	100.09	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0144	LF		W14 x 257 A992/A36 Structural Column	440.41	38.48
			<i>For Hot Dip Galvanizing, Add</i>	110.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	39.64	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.08	
05 12 23 00-0145	LF		W14 x 233 A992/A36 Structural Column	405.37	35.78
			<i>For Hot Dip Galvanizing, Add</i>	101.91	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.07	
05 12 23 00-0146	LF		W14 x 211 A992/A36 Structural Column	360.85	33.32
			<i>For Hot Dip Galvanizing, Add</i>	90.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	32.48	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	72.17	
05 12 23 00-0147	LF		W14 x 193 A992/A36 Structural Column	326.66	31.67
			<i>For Hot Dip Galvanizing, Add</i>	81.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.40	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	65.33	
05 12 23 00-0148	LF		W14 x 176 A992/A36 Structural Column	294.73	30.26
			<i>For Hot Dip Galvanizing, Add</i>	72.84	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.53	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	58.95	
05 12 23 00-0149	LF		W14 x 159 A992/A36 Structural Column	266.83	29.21
			<i>For Hot Dip Galvanizing, Add</i>	65.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.01	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	53.37	
05 12 23 00-0150	LF		W14 x 145 A992/A36 Structural Column	257.88	28.27
			<i>For Hot Dip Galvanizing, Add</i>	63.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.21	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.58	
05 12 23 00-0151	LF		W14 x 132 A992/A36 Structural Column	221.06	26.98
			<i>For Hot Dip Galvanizing, Add</i>	53.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.90	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.21	
05 12 23 00-0152	LF		W14 x 120 A992/A36 Structural Column	207.44	26.28
			<i>For Hot Dip Galvanizing, Add</i>	49.79	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.67	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.49	
05 12 23 00-0153	LF		W14 x 109 A992/A36 Structural Column	186.06	25.22
			<i>For Hot Dip Galvanizing, Add</i>	44.18	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.75	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	37.21	
05 12 23 00-0154	LF		W14 x 99 A992/A36 Structural Column	170.03	24.52
			<i>For Hot Dip Galvanizing, Add</i>	39.96	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.30	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.01	
05 12 23 00-0155	LF		W14 x 90 A992/A36 Structural Column	158.18	23.93
			<i>For Hot Dip Galvanizing, Add</i>	36.83	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.24	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.64	
05 12 23 00-0156	LF		W14 x 82 A992/A36 Structural Column	145.94	23.22
			<i>For Hot Dip Galvanizing, Add</i>	33.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.19	
05 12 23 00-0157	LF		W14 x 74 A992/A36 Structural Column	132.08	22.64
			<i>For Hot Dip Galvanizing, Add</i>	29.98	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.42	
05 12 23 00-0158	LF		W14 x 68 A992/A36 Structural Column	123.58	22.29
			<i>For Hot Dip Galvanizing, Add</i>	27.72	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.12	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.72	
05 12 23 00-0159	LF		W14 x 61 A992/A36 Structural Column	112.95	21.71
			<i>For Hot Dip Galvanizing, Add</i>	24.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.17	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.59	
05 12 23 00-0160	LF		W14 x 53 A992/A36 Structural Column	103.13	21.11
			<i>For Hot Dip Galvanizing, Add</i>	22.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.28	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.63	
05 12 23 00-0161	LF		W14 x 48 A992/A36 Structural Column	96.81	20.76
			<i>For Hot Dip Galvanizing, Add</i>	20.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.71	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.36	
05 12 23 00-0162	LF		W14 x 43 A992/A36 Structural Column	87.67	20.41
			<i>For Hot Dip Galvanizing, Add</i>	18.30	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.53	
05 12 23 00-0163	LF		W12 x 336 A992/A36 Structural Column	581.10	32.26
			<i>For Hot Dip Galvanizing, Add</i>	151.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	52.30	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	116.22	
05 12 23 00-0164	LF		W12 x 305 A992/A36 Structural Column	529.99	31.61
			<i>For Hot Dip Galvanizing, Add</i>	137.72	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	47.70	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.00	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0165	LF		W12 x 279 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	487.26 125.98 43.85 97.45	31.23
05 12 23 00-0166	LF		W12 x 252 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	442.50 113.79 39.83 88.50	30.45
05 12 23 00-0167	LF		W12 x 230 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	406.24 103.85 36.56 81.25	30.01
05 12 23 00-0168	LF		W12 x 210 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	373.24 94.82 33.59 74.65	29.59
05 12 23 00-0169	LF		W12 x 190 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	343.76 85.79 30.94 68.75	32.37
05 12 23 00-0170	LF		W12 x 170 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	311.02 77.03 27.99 62.20	31.44
05 12 23 00-0171	LF		W12 x 152 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	280.53 69.22 25.25 56.11	29.21
05 12 23 00-0172	LF		W12 x 136 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	266.81 65.64 24.01 53.36	28.38
05 12 23 00-0173	LF		W12 x 120 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	202.86 48.55 18.26 40.57	26.04
05 12 23 00-0174	LF		W12 x 106 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	187.15 44.48 16.84 37.43	25.22
05 12 23 00-0175	LF		W12 x 96 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	167.74 39.36 15.10 33.55	24.40
05 12 23 00-0176	LF		W12 x 87 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	154.96 36.00 13.95 30.99	23.57
05 12 23 00-0177	LF		W12 x 79 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	136.36 31.07 12.27 27.27	22.87
05 12 23 00-0178	LF		W12 x 72 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	125.05 28.09 11.25 25.01	22.29
05 12 23 00-0179	LF		W12 x 65 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	114.57 25.35 10.31 22.91	21.82
05 12 23 00-0180	LF		W12 x 58 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	110.93 24.40 9.98 22.19	21.58
05 12 23 00-0181	LF		W12 x 53 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	103.13 22.37 9.28 20.63	21.11
05 12 23 00-0182	LF		W12 x 50 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	100.04 21.54 9.00 20.01	21.00
05 12 23 00-0183	LF		W12 x 45 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.15 19.21 8.20 18.23	20.53
05 12 23 00-0184	LF		W12 x 40 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.99 16.80 7.38 16.40	20.06
05 12 23 00-0185	LF		W10 x 112 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	195.62 46.70 17.61 39.12	25.69

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0186	LF		W10 x 110 A992/A36 Structural Column	177.19	24.64
			<i>For Hot Dip Galvanizing, Add</i>	41.88	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.95	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.44	
05 12 23 00-0187	LF		W10 x 88 A992/A36 Structural Column	159.56	23.81
			<i>For Hot Dip Galvanizing, Add</i>	37.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.36	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.91	
05 12 23 00-0188	LF		W10 x 77 A992/A36 Structural Column	142.20	22.87
			<i>For Hot Dip Galvanizing, Add</i>	32.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.80	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.44	
05 12 23 00-0189	LF		W10 x 68 A992/A36 Structural Column	128.33	22.29
			<i>For Hot Dip Galvanizing, Add</i>	29.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.55	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.67	
05 12 23 00-0190	LF		W10 x 60 A992/A36 Structural Column	112.95	21.71
			<i>For Hot Dip Galvanizing, Add</i>	24.93	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.17	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.59	
05 12 23 00-0191	LF		W10 x 54 A992/A36 Structural Column	112.17	21.35
			<i>For Hot Dip Galvanizing, Add</i>	24.78	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.10	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.43	
05 12 23 00-0192	LF		W10 x 49 A992/A36 Structural Column	98.83	21.00
			<i>For Hot Dip Galvanizing, Add</i>	21.24	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.77	
05 12 23 00-0193	LF		W10 x 45 A992/A36 Structural Column	95.48	20.65
			<i>For Hot Dip Galvanizing, Add</i>	20.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.59	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.10	
05 12 23 00-0194	LF		W10 x 39 A992/A36 Structural Column	83.47	20.29
			<i>For Hot Dip Galvanizing, Add</i>	17.17	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.51	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	16.69	
05 12 23 00-0195	LF		W10 x 33 A992/A36 Structural Column	73.11	19.71
			<i>For Hot Dip Galvanizing, Add</i>	14.46	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.58	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.62	
05 12 23 00-0196	LF		W8 x 67 A992/A36 Structural Column	123.71	22.29
			<i>For Hot Dip Galvanizing, Add</i>	27.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.13	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.74	
05 12 23 00-0197	LF		W8 x 58 A992/A36 Structural Column	111.34	21.58
			<i>For Hot Dip Galvanizing, Add</i>	24.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.02	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.27	
05 12 23 00-0198	LF		W8 x 48 A992/A36 Structural Column	99.92	21.00
			<i>For Hot Dip Galvanizing, Add</i>	21.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.99	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.98	
05 12 23 00-0199	LF		W8 x 40 A992/A36 Structural Column	86.17	20.41
			<i>For Hot Dip Galvanizing, Add</i>	17.89	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.76	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.23	
05 12 23 00-0200	LF		W8 x 35 A992/A36 Structural Column	78.09	19.94
			<i>For Hot Dip Galvanizing, Add</i>	15.78	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.03	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.62	
05 12 23 00-0201	LF		W8 x 31 A992/A36 Structural Column	71.62	19.71
			<i>For Hot Dip Galvanizing, Add</i>	14.05	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.45	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.32	
05 12 23 00-0202	LF		W8 x 28 A992/A36 Structural Column	67.58	19.48
			<i>For Hot Dip Galvanizing, Add</i>	12.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.08	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	13.52	
05 12 23 00-0203	LF		W8 x 24 A992/A36 Structural Column	62.74	19.23
			<i>For Hot Dip Galvanizing, Add</i>	11.71	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.65	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	12.55	
05 12 23 00-0204	LF		W8 x 21 A992/A36 Structural Column	59.52	19.12
			<i>For Hot Dip Galvanizing, Add</i>	10.88	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.36	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	11.90	
05 12 23 00-0205	LF		W8 x 18 A992/A36 Structural Column	53.45	18.77
			<i>For Hot Dip Galvanizing, Add</i>	9.27	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.81	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.69	
05 12 23 00-0206	LF		W6 x 25 A992/A36 Structural Column	65.72	19.23
			<i>For Hot Dip Galvanizing, Add</i>	12.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.91	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	13.14	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0207 LF W6 x 20 A992/A36 Structural Column	56.01	18.88
For Hot Dip Galvanizing, Add	9.94	
For High Strength Low Alloy A572-50 Steel, Add	5.04	
For High Strength Low Alloy A588 Grade B Steel, Add	11.20	
05 12 23 00-0208 LF W6 x 15 A992/A36 Structural Column	48.36	18.30
For Hot Dip Galvanizing, Add	7.98	
For High Strength Low Alloy A572-50 Steel, Add	4.35	
For High Strength Low Alloy A588 Grade B Steel, Add	9.67	
05 12 23 00-0209 LF W6 x 12 A992/A36 Structural Column	45.51	18.30
For Hot Dip Galvanizing, Add	7.19	
For High Strength Low Alloy A572-50 Steel, Add	4.10	
For High Strength Low Alloy A588 Grade B Steel, Add	9.10	
05 12 23 00-0210 LF W6 x 9 A992/A36 Structural Column	41.87	18.18
For Hot Dip Galvanizing, Add	6.21	
For High Strength Low Alloy A572-50 Steel, Add	3.77	
For High Strength Low Alloy A588 Grade B Steel, Add	8.37	
05 12 23 00-0211 LF W5 x 19 A992/A36 Structural Column	55.19	18.88
For Hot Dip Galvanizing, Add	9.72	
For High Strength Low Alloy A572-50 Steel, Add	4.97	
For High Strength Low Alloy A588 Grade B Steel, Add	11.04	
05 12 23 00-0212 LF W5 x 16 A992/A36 Structural Column	51.02	18.77
For Hot Dip Galvanizing, Add	8.62	
For High Strength Low Alloy A572-50 Steel, Add	4.59	
For High Strength Low Alloy A588 Grade B Steel, Add	10.20	
05 12 23 00-0213 LF W4 x 13 A992/A36 Structural Column	47.94	18.53
For Hot Dip Galvanizing, Add	7.83	
For High Strength Low Alloy A572-50 Steel, Add	4.31	
For High Strength Low Alloy A588 Grade B Steel, Add	9.59	
05 12 23 00-0214 A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0215 LF W36 x 300 A992/A36 Structural Beam Or Girder	433.15	79.32
For Hot Dip Galvanizing, Add	96.72	
For High Strength Low Alloy A572-50 Steel, Add	38.98	
For High Strength Low Alloy A588 Steel, Add	86.63	
For Each Additional Top Copes >2, Add	3.49	
For Structural Tees, WT, MT Or ST, Deduct	-138.91	
For Skewed Or Sloped Connections, Add	51.98	
05 12 23 00-0216 LF W36 x 280 A992/A36 Structural Beam Or Girder	419.15	87.98
For Hot Dip Galvanizing, Add	90.27	
For High Strength Low Alloy A572-50 Steel, Add	37.72	
For High Strength Low Alloy A588 Steel, Add	83.83	
For Each Additional Top Copes >2, Add	3.25	
For Structural Tees, WT, MT Or ST, Deduct	-132.63	
For Skewed Or Sloped Connections, Add	50.30	
05 12 23 00-0217 LF W36 x 260 A992/A36 Structural Beam Or Girder	397.76	86.92
For Hot Dip Galvanizing, Add	84.66	
For High Strength Low Alloy A572-50 Steel, Add	35.80	
For High Strength Low Alloy A588 Steel, Add	79.55	
For Each Additional Top Copes >2, Add	3.05	
For Structural Tees, WT, MT Or ST, Deduct	-125.32	
For Skewed Or Sloped Connections, Add	47.73	
05 12 23 00-0218 LF W36 x 240 A992/A36 Structural Beam Or Girder	371.28	76.45
For Hot Dip Galvanizing, Add	80.40	
For High Strength Low Alloy A572-50 Steel, Add	33.42	
For High Strength Low Alloy A588 Steel, Add	74.26	
For Each Additional Top Copes >2, Add	2.90	
For Structural Tees, WT, MT Or ST, Deduct	-117.72	
For Skewed Or Sloped Connections, Add	44.55	
05 12 23 00-0219 LF W36 x 230 A992/A36 Structural Beam Or Girder	360.36	77.54
For Hot Dip Galvanizing, Add	77.05	
For High Strength Low Alloy A572-50 Steel, Add	32.43	
For High Strength Low Alloy A588 Steel, Add	72.07	
For Each Additional Top Copes >2, Add	2.78	
For Structural Tees, WT, MT Or ST, Deduct	-113.72	
For Skewed Or Sloped Connections, Add	43.24	
05 12 23 00-0220 LF W36 x 210 A992/A36 Structural Beam Or Girder	343.24	84.11
For Hot Dip Galvanizing, Add	70.35	
For High Strength Low Alloy A572-50 Steel, Add	30.89	
For High Strength Low Alloy A588 Steel, Add	68.65	
For Each Additional Top Copes >2, Add	2.54	
For Structural Tees, WT, MT Or ST, Deduct	-106.67	
For Skewed Or Sloped Connections, Add	41.19	
05 12 23 00-0221 LF W36 x 194 A992/A36 Structural Beam Or Girder	323.95	74.15
For Hot Dip Galvanizing, Add	67.95	
For High Strength Low Alloy A572-50 Steel, Add	29.16	
For High Strength Low Alloy A588 Steel, Add	64.79	
For Each Additional Top Copes >2, Add	2.45	
For Structural Tees, WT, MT Or ST, Deduct	-101.52	
For Skewed Or Sloped Connections, Add	38.87	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0222	LF		W36 x 182 A992/A36 Structural Beam Or Girder.....	308.22	73.61
			<i>For Hot Dip Galvanizing, Add</i>	63.74	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	27.74	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	61.64	
			<i>For Each Additional Top Copes >2, Add</i>	2.30	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-96.10	
			<i>For Skewed Or Sloped Connections, Add</i>	36.99	
05 12 23 00-0223	LF		W36 x 170 A992/A36 Structural Beam Or Girder.....	292.17	72.76
			<i>For Hot Dip Galvanizing, Add</i>	59.54	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.30	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	58.43	
			<i>For Each Additional Top Copes >2, Add</i>	2.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-90.62	
			<i>For Skewed Or Sloped Connections, Add</i>	35.06	
05 12 23 00-0224	LF		W36 x 160 A992/A36 Structural Beam Or Girder.....	288.74	81.41
			<i>For Hot Dip Galvanizing, Add</i>	56.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	25.99	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	57.75	
			<i>For Each Additional Top Copes >2, Add</i>	2.02	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-88.04	
			<i>For Skewed Or Sloped Connections, Add</i>	34.65	
05 12 23 00-0225	LF		W36 x 150 A992/A36 Structural Beam Or Girder.....	277.58	80.82
			<i>For Hot Dip Galvanizing, Add</i>	53.10	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.98	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	55.52	
			<i>For Each Additional Top Copes >2, Add</i>	1.91	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-84.22	
			<i>For Skewed Or Sloped Connections, Add</i>	33.31	
05 12 23 00-0226	LF		W36 x 135 A992/A36 Structural Beam Or Girder.....	261.95	80.12
			<i>For Hot Dip Galvanizing, Add</i>	49.00	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.58	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	52.39	
			<i>For Each Additional Top Copes >2, Add</i>	1.77	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-78.87	
			<i>For Skewed Or Sloped Connections, Add</i>	31.43	
05 12 23 00-0227	LF		W33 x 241 A992/A36 Structural Beam Or Girder.....	376.36	78.86
			<i>For Hot Dip Galvanizing, Add</i>	81.10	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	33.87	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	75.27	
			<i>For Each Additional Top Copes >2, Add</i>	2.92	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-119.11	
			<i>For Skewed Or Sloped Connections, Add</i>	45.16	
05 12 23 00-0228	LF		W33 x 221 A992/A36 Structural Beam Or Girder.....	350.05	76.92
			<i>For Hot Dip Galvanizing, Add</i>	74.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.50	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	70.01	
			<i>For Each Additional Top Copes >2, Add</i>	2.68	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-110.21	
			<i>For Skewed Or Sloped Connections, Add</i>	42.01	
05 12 23 00-0229	LF		W33 x 201 A992/A36 Structural Beam Or Girder.....	332.89	83.52
			<i>For Hot Dip Galvanizing, Add</i>	67.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	29.96	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	66.58	
			<i>For Each Additional Top Copes >2, Add</i>	2.44	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-103.14	
			<i>For Skewed Or Sloped Connections, Add</i>	39.95	
05 12 23 00-0230	LF		W33 x 170 A992/A36 Structural Beam Or Girder.....	300.73	82.00
			<i>For Hot Dip Galvanizing, Add</i>	59.20	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	27.07	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	60.15	
			<i>For Each Additional Top Copes >2, Add</i>	2.13	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-92.15	
			<i>For Skewed Or Sloped Connections, Add</i>	36.09	
05 12 23 00-0231	LF		W33 x 152 A992/A36 Structural Beam Or Girder.....	274.58	72.53
			<i>For Hot Dip Galvanizing, Add</i>	54.73	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.71	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.92	
			<i>For Each Additional Top Copes >2, Add</i>	1.97	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-84.50	
			<i>For Skewed Or Sloped Connections, Add</i>	32.95	
05 12 23 00-0232	LF		W33 x 141 A992/A36 Structural Beam Or Girder.....	268.69	80.35
			<i>For Hot Dip Galvanizing, Add</i>	50.77	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.18	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	53.74	
			<i>For Each Additional Top Copes >2, Add</i>	1.83	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.18	
			<i>For Skewed Or Sloped Connections, Add</i>	32.24	
05 12 23 00-0233	LF		W33 x 130 A992/A36 Structural Beam Or Girder.....	256.05	79.77
			<i>For Hot Dip Galvanizing, Add</i>	47.45	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.04	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.21	
			<i>For Each Additional Top Copes >2, Add</i>	1.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-76.86	
			<i>For Skewed Or Sloped Connections, Add</i>	30.73	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0234 LF W33 x 118 A992/A36 Structural Beam Or Girder	241.36	79.07
For Hot Dip Galvanizing, Add	43.57	
For High Strength Low Alloy A572-50 Steel, Add	21.72	
For High Strength Low Alloy A588 Steel, Add	48.27	
For Each Additional Top Copes >2, Add	1.57	
For Structural Tees, WT, MT Or ST, Deduct	-71.83	
For Skewed Or Sloped Connections, Add	28.96	
05 12 23 00-0235 LF W30 x 211 A992/A36 Structural Beam Or Girder	336.46	76.77
For Hot Dip Galvanizing, Add	70.64	
For High Strength Low Alloy A572-50 Steel, Add	30.28	
For High Strength Low Alloy A588 Steel, Add	67.29	
For Each Additional Top Copes >2, Add	2.55	
For Structural Tees, WT, MT Or ST, Deduct	-105.48	
For Skewed Or Sloped Connections, Add	40.38	
05 12 23 00-0236 LF W30 x 191 A992/A36 Structural Beam Or Girder	319.01	82.93
For Hot Dip Galvanizing, Add	63.95	
For High Strength Low Alloy A572-50 Steel, Add	28.71	
For High Strength Low Alloy A588 Steel, Add	63.80	
For Each Additional Top Copes >2, Add	2.30	
For Structural Tees, WT, MT Or ST, Deduct	-98.37	
For Skewed Or Sloped Connections, Add	38.28	
05 12 23 00-0237 LF W30 x 173 A992/A36 Structural Beam Or Girder	293.27	73.27
For Hot Dip Galvanizing, Add	59.70	
For High Strength Low Alloy A572-50 Steel, Add	26.39	
For High Strength Low Alloy A588 Steel, Add	58.65	
For Each Additional Top Copes >2, Add	2.15	
For Structural Tees, WT, MT Or ST, Deduct	-90.92	
For Skewed Or Sloped Connections, Add	35.19	
05 12 23 00-0238 LF W30 x 154 A992/A36 Structural Beam Or Girder	277.82	80.93
For Hot Dip Galvanizing, Add	53.14	
For High Strength Low Alloy A572-50 Steel, Add	25.00	
For High Strength Low Alloy A588 Steel, Add	55.56	
For Each Additional Top Copes >2, Add	1.91	
For Structural Tees, WT, MT Or ST, Deduct	-84.29	
For Skewed Or Sloped Connections, Add	33.34	
05 12 23 00-0239 LF W30 x 132 A992/A36 Structural Beam Or Girder	248.98	70.69
For Hot Dip Galvanizing, Add	48.17	
For High Strength Low Alloy A572-50 Steel, Add	22.41	
For High Strength Low Alloy A588 Steel, Add	49.80	
For Each Additional Top Copes >2, Add	1.74	
For Structural Tees, WT, MT Or ST, Deduct	-75.83	
For Skewed Or Sloped Connections, Add	29.88	
05 12 23 00-0240 LF W30 x 124 A992/A36 Structural Beam Or Girder	238.42	70.65
For Hot Dip Galvanizing, Add	45.25	
For High Strength Low Alloy A572-50 Steel, Add	21.46	
For High Strength Low Alloy A588 Steel, Add	47.68	
For Each Additional Top Copes >2, Add	1.63	
For Structural Tees, WT, MT Or ST, Deduct	-72.14	
For Skewed Or Sloped Connections, Add	28.61	
05 12 23 00-0241 LF W30 x 116 A992/A36 Structural Beam Or Girder	236.77	78.95
For Hot Dip Galvanizing, Add	42.33	
For High Strength Low Alloy A572-50 Steel, Add	21.31	
For High Strength Low Alloy A588 Steel, Add	47.35	
For Each Additional Top Copes >2, Add	1.53	
For Structural Tees, WT, MT Or ST, Deduct	-70.24	
For Skewed Or Sloped Connections, Add	28.41	
05 12 23 00-0242 LF W30 x 108 A992/A36 Structural Beam Or Girder	218.55	71.08
For Hot Dip Galvanizing, Add	39.62	
For High Strength Low Alloy A572-50 Steel, Add	19.67	
For High Strength Low Alloy A588 Steel, Add	43.71	
For Each Additional Top Copes >2, Add	1.43	
For Structural Tees, WT, MT Or ST, Deduct	-65.13	
For Skewed Or Sloped Connections, Add	26.23	
05 12 23 00-0243 LF W30 x 99 A992/A36 Structural Beam Or Girder	209.53	70.73
For Hot Dip Galvanizing, Add	37.25	
For High Strength Low Alloy A572-50 Steel, Add	18.86	
For High Strength Low Alloy A588 Steel, Add	41.91	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-62.04	
For Skewed Or Sloped Connections, Add	25.14	
05 12 23 00-0244 LF W27 x 178 A992/A36 Structural Beam Or Girder	327.16	85.79
For Hot Dip Galvanizing, Add	65.39	
For High Strength Low Alloy A572-50 Steel, Add	29.44	
For High Strength Low Alloy A588 Steel, Add	65.43	
For Each Additional Top Copes >2, Add	2.36	
For Structural Tees, WT, MT Or ST, Deduct	-100.78	
For Skewed Or Sloped Connections, Add	39.26	
05 12 23 00-0245 LF W27 x 161 A992/A36 Structural Beam Or Girder	301.20	82.55
For Hot Dip Galvanizing, Add	59.15	
For High Strength Low Alloy A572-50 Steel, Add	27.11	
For High Strength Low Alloy A588 Steel, Add	60.24	
For Each Additional Top Copes >2, Add	2.13	
For Structural Tees, WT, MT Or ST, Deduct	-92.21	
For Skewed Or Sloped Connections, Add	36.14	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0246	LF		W27 x 146 A992/A36 Structural Beam Or Girder.....	278.23	79.63
			For Hot Dip Galvanizing, Add	53.64	
			For High Strength Low Alloy A572-50 Steel, Add	25.04	
			For High Strength Low Alloy A588 Steel, Add	55.65	
			For Each Additional Top Copes >2, Add	1.93	
			For Structural Tees, WT, MT Or ST, Deduct	-84.64	
			For Skewed Or Sloped Connections, Add	33.39	
05 12 23 00-0247	LF		W27 x 114 A992/A36 Structural Beam Or Girder.....	221.48	66.15
			For Hot Dip Galvanizing, Add	41.88	
			For High Strength Low Alloy A572-50 Steel, Add	19.93	
			For High Strength Low Alloy A588 Steel, Add	44.30	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-66.93	
			For Skewed Or Sloped Connections, Add	26.58	
05 12 23 00-0248	LF		W27 x 102 A992/A36 Structural Beam Or Girder.....	210.46	70.73
			For Hot Dip Galvanizing, Add	37.47	
			For High Strength Low Alloy A572-50 Steel, Add	18.94	
			For High Strength Low Alloy A588 Steel, Add	42.09	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-62.35	
			For Skewed Or Sloped Connections, Add	25.26	
05 12 23 00-0249	LF		W27 x 94 A992/A36 Structural Beam Or Girder	201.99	70.27
			For Hot Dip Galvanizing, Add	35.25	
			For High Strength Low Alloy A572-50 Steel, Add	18.18	
			For High Strength Low Alloy A588 Steel, Add	40.40	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-59.45	
			For Skewed Or Sloped Connections, Add	24.24	
05 12 23 00-0250	LF		W27 x 84 A992/A36 Structural Beam Or Girder	191.64	69.80
			For Hot Dip Galvanizing, Add	32.54	
			For High Strength Low Alloy A572-50 Steel, Add	17.25	
			For High Strength Low Alloy A588 Steel, Add	38.33	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-55.92	
			For Skewed Or Sloped Connections, Add	23.00	
05 12 23 00-0251	LF		W24 x 162 A992/A36 Structural Beam Or Girder.....	290.01	79.15
			For Hot Dip Galvanizing, Add	57.05	
			For High Strength Low Alloy A572-50 Steel, Add	26.10	
			For High Strength Low Alloy A588 Steel, Add	58.00	
			For Each Additional Top Copes >2, Add	2.06	
			For Structural Tees, WT, MT Or ST, Deduct	-88.84	
			For Skewed Or Sloped Connections, Add	34.80	
05 12 23 00-0252	LF		W24 x 146 A992/A36 Structural Beam Or Girder.....	266.22	75.87
			For Hot Dip Galvanizing, Add	51.42	
			For High Strength Low Alloy A572-50 Steel, Add	23.96	
			For High Strength Low Alloy A588 Steel, Add	53.24	
			For Each Additional Top Copes >2, Add	1.85	
			For Structural Tees, WT, MT Or ST, Deduct	-81.04	
			For Skewed Or Sloped Connections, Add	31.95	
05 12 23 00-0253	LF		W24 x 131 A992/A36 Structural Beam Or Girder.....	243.50	72.43
			For Hot Dip Galvanizing, Add	46.13	
			For High Strength Low Alloy A572-50 Steel, Add	21.92	
			For High Strength Low Alloy A588 Steel, Add	48.70	
			For Each Additional Top Copes >2, Add	1.66	
			For Structural Tees, WT, MT Or ST, Deduct	-73.64	
			For Skewed Or Sloped Connections, Add	29.22	
05 12 23 00-0254	LF		W24 x 117 A992/A36 Structural Beam Or Girder.....	221.87	68.81
			For Hot Dip Galvanizing, Add	41.20	
			For High Strength Low Alloy A572-50 Steel, Add	19.97	
			For High Strength Low Alloy A588 Steel, Add	44.37	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-66.65	
			For Skewed Or Sloped Connections, Add	26.62	
05 12 23 00-0255	LF		W24 x 104 A992/A36 Structural Beam Or Girder.....	201.39	65.07
			For Hot Dip Galvanizing, Add	36.62	
			For High Strength Low Alloy A572-50 Steel, Add	18.13	
			For High Strength Low Alloy A588 Steel, Add	40.28	
			For Each Additional Top Copes >2, Add	1.32	
			For Structural Tees, WT, MT Or ST, Deduct	-60.08	
			For Skewed Or Sloped Connections, Add	24.17	
05 12 23 00-0256	LF		W24 x 94 A992/A36 Structural Beam Or Girder	194.25	70.27
			For Hot Dip Galvanizing, Add	33.10	
			For High Strength Low Alloy A572-50 Steel, Add	17.48	
			For High Strength Low Alloy A588 Steel, Add	38.85	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-56.74	
			For Skewed Or Sloped Connections, Add	23.31	
05 12 23 00-0257	LF		W24 x 84 A992/A36 Structural Beam Or Girder	176.71	62.29
			For Hot Dip Galvanizing, Add	30.58	
			For High Strength Low Alloy A572-50 Steel, Add	15.90	
			For High Strength Low Alloy A588 Steel, Add	35.34	
			For Each Additional Top Copes >2, Add	1.10	
			For Structural Tees, WT, MT Or ST, Deduct	-51.87	
			For Skewed Or Sloped Connections, Add	21.21	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0258 LF W24 x 76 A992/A36 Structural Beam Or Girder	168.78	61.82
For Hot Dip Galvanizing, Add	28.51	
For High Strength Low Alloy A572-50 Steel, Add	15.19	
For High Strength Low Alloy A588 Steel, Add	33.76	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-49.17	
For Skewed Or Sloped Connections, Add	20.25	
05 12 23 00-0259 LF W24 x 68 A992/A36 Structural Beam Or Girder	158.82	61.47
For Hot Dip Galvanizing, Add	25.87	
For High Strength Low Alloy A572-50 Steel, Add	14.29	
For High Strength Low Alloy A588 Steel, Add	31.76	
For Each Additional Top Copes >2, Add	0.93	
For Structural Tees, WT, MT Or ST, Deduct	-45.75	
For Skewed Or Sloped Connections, Add	19.06	
05 12 23 00-0260 LF W24 x 62 A992/A36 Structural Beam Or Girder	153.58	61.12
For Hot Dip Galvanizing, Add	24.52	
For High Strength Low Alloy A572-50 Steel, Add	13.82	
For High Strength Low Alloy A588 Steel, Add	30.72	
For Each Additional Top Copes >2, Add	0.88	
For Structural Tees, WT, MT Or ST, Deduct	-43.97	
For Skewed Or Sloped Connections, Add	18.43	
05 12 23 00-0261 LF W24 x 55 A992/A36 Structural Beam Or Girder	146.42	60.88
For Hot Dip Galvanizing, Add	22.63	
For High Strength Low Alloy A572-50 Steel, Add	13.18	
For High Strength Low Alloy A588 Steel, Add	29.28	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-41.52	
For Skewed Or Sloped Connections, Add	17.57	
05 12 23 00-0262 LF W21 x 147 A992/A36 Structural Beam Or Girder	252.63	65.08
For Hot Dip Galvanizing, Add	50.84	
For High Strength Low Alloy A572-50 Steel, Add	22.74	
For High Strength Low Alloy A588 Steel, Add	50.53	
For Each Additional Top Copes >2, Add	1.83	
For Structural Tees, WT, MT Or ST, Deduct	-78.01	
For Skewed Or Sloped Connections, Add	30.32	
05 12 23 00-0263 LF W21 x 132 A992/A36 Structural Beam Or Girder	230.83	62.18
For Hot Dip Galvanizing, Add	45.65	
For High Strength Low Alloy A572-50 Steel, Add	20.77	
For High Strength Low Alloy A588 Steel, Add	46.17	
For Each Additional Top Copes >2, Add	1.65	
For Structural Tees, WT, MT Or ST, Deduct	-70.84	
For Skewed Or Sloped Connections, Add	27.70	
05 12 23 00-0264 LF W21 x 122 A992/A36 Structural Beam Or Girder	217.25	61.14
For Hot Dip Galvanizing, Add	42.19	
For High Strength Low Alloy A572-50 Steel, Add	19.55	
For High Strength Low Alloy A588 Steel, Add	43.45	
For Each Additional Top Copes >2, Add	1.52	
For Structural Tees, WT, MT Or ST, Deduct	-66.26	
For Skewed Or Sloped Connections, Add	26.07	
05 12 23 00-0265 LF W21 x 111 A992/A36 Structural Beam Or Girder	201.46	59.18
For Hot Dip Galvanizing, Add	38.39	
For High Strength Low Alloy A572-50 Steel, Add	18.13	
For High Strength Low Alloy A588 Steel, Add	40.29	
For Each Additional Top Copes >2, Add	1.38	
For Structural Tees, WT, MT Or ST, Deduct	-61.04	
For Skewed Or Sloped Connections, Add	24.18	
05 12 23 00-0266 LF W21 x 101 A992/A36 Structural Beam Or Girder	186.96	57.28
For Hot Dip Galvanizing, Add	34.93	
For High Strength Low Alloy A572-50 Steel, Add	16.83	
For High Strength Low Alloy A588 Steel, Add	37.39	
For Each Additional Top Copes >2, Add	1.26	
For Structural Tees, WT, MT Or ST, Deduct	-56.27	
For Skewed Or Sloped Connections, Add	22.44	
05 12 23 00-0267 LF W21 x 93 A992/A36 Structural Beam Or Girder	183.11	63.00
For Hot Dip Galvanizing, Add	32.16	
For High Strength Low Alloy A572-50 Steel, Add	16.48	
For High Strength Low Alloy A588 Steel, Add	36.62	
For Each Additional Top Copes >2, Add	1.16	
For Structural Tees, WT, MT Or ST, Deduct	-54.01	
For Skewed Or Sloped Connections, Add	21.97	
05 12 23 00-0268 LF W21 x 83 A992/A36 Structural Beam Or Girder	173.72	62.29
For Hot Dip Galvanizing, Add	29.75	
For High Strength Low Alloy A572-50 Steel, Add	15.63	
For High Strength Low Alloy A588 Steel, Add	34.74	
For Each Additional Top Copes >2, Add	1.07	
For Structural Tees, WT, MT Or ST, Deduct	-50.83	
For Skewed Or Sloped Connections, Add	20.85	
05 12 23 00-0269 LF W21 x 73 A992/A36 Structural Beam Or Girder	162.29	61.82
For Hot Dip Galvanizing, Add	26.74	
For High Strength Low Alloy A572-50 Steel, Add	14.61	
For High Strength Low Alloy A588 Steel, Add	32.46	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-46.91	
For Skewed Or Sloped Connections, Add	19.47	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0270	LF		W21 x 68 A992/A36 Structural Beam Or Girder	156.51	61.47
			For Hot Dip Galvanizing, Add	25.23	
			For High Strength Low Alloy A572-50 Steel, Add	14.09	
			For High Strength Low Alloy A588 Steel, Add	31.30	
			For Each Additional Top Copes >2, Add	0.91	
			For Structural Tees, WT, MT Or ST, Deduct	-44.94	
			For Skewed Or Sloped Connections, Add	18.78	
05 12 23 00-0271	LF		W21 x 62 A992/A36 Structural Beam Or Girder	151.27	61.12
			For Hot Dip Galvanizing, Add	23.88	
			For High Strength Low Alloy A572-50 Steel, Add	13.61	
			For High Strength Low Alloy A588 Steel, Add	30.25	
			For Each Additional Top Copes >2, Add	0.86	
			For Structural Tees, WT, MT Or ST, Deduct	-43.16	
			For Skewed Or Sloped Connections, Add	18.15	
05 12 23 00-0272	LF		W21 x 57 A992/A36 Structural Beam Or Girder	146.55	61.00
			For Hot Dip Galvanizing, Add	22.63	
			For High Strength Low Alloy A572-50 Steel, Add	13.19	
			For High Strength Low Alloy A588 Steel, Add	29.31	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-41.54	
			For Skewed Or Sloped Connections, Add	17.59	
05 12 23 00-0273	LF		W21 x 50 A992/A36 Structural Beam Or Girder	129.69	52.90
			For Hot Dip Galvanizing, Add	20.30	
			For High Strength Low Alloy A572-50 Steel, Add	11.67	
			For High Strength Low Alloy A588 Steel, Add	25.94	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-36.91	
			For Skewed Or Sloped Connections, Add	15.56	
05 12 23 00-0274	LF		W21 x 44 A992/A36 Structural Beam Or Girder	124.18	52.67
			For Hot Dip Galvanizing, Add	18.87	
			For High Strength Low Alloy A572-50 Steel, Add	11.18	
			For High Strength Low Alloy A588 Steel, Add	24.84	
			For Each Additional Top Copes >2, Add	0.68	
			For Structural Tees, WT, MT Or ST, Deduct	-35.03	
			For Skewed Or Sloped Connections, Add	14.90	
05 12 23 00-0275	LF		W18 x 119 A992/A36 Structural Beam Or Girder.....	211.67	60.93
			For Hot Dip Galvanizing, Add	40.70	
			For High Strength Low Alloy A572-50 Steel, Add	19.05	
			For High Strength Low Alloy A588 Steel, Add	42.33	
			For Each Additional Top Copes >2, Add	1.47	
			For Structural Tees, WT, MT Or ST, Deduct	-64.34	
			For Skewed Or Sloped Connections, Add	25.40	
05 12 23 00-0276	LF		W18 x 106 A992/A36 Structural Beam Or Girder.....	192.24	57.74
			For Hot Dip Galvanizing, Add	36.26	
			For High Strength Low Alloy A572-50 Steel, Add	17.30	
			For High Strength Low Alloy A588 Steel, Add	38.45	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-58.05	
			For Skewed Or Sloped Connections, Add	23.07	
05 12 23 00-0277	LF		W18 x 97 A992/A36 Structural Beam Or Girder	186.90	63.00
			For Hot Dip Galvanizing, Add	33.18	
			For High Strength Low Alloy A572-50 Steel, Add	16.82	
			For High Strength Low Alloy A588 Steel, Add	37.38	
			For Each Additional Top Copes >2, Add	1.20	
			For Structural Tees, WT, MT Or ST, Deduct	-55.31	
			For Skewed Or Sloped Connections, Add	22.43	
05 12 23 00-0278	LF		W18 x 86 A992/A36 Structural Beam Or Girder	176.14	62.40
			For Hot Dip Galvanizing, Add	30.39	
			For High Strength Low Alloy A572-50 Steel, Add	15.85	
			For High Strength Low Alloy A588 Steel, Add	35.23	
			For Each Additional Top Copes >2, Add	1.10	
			For Structural Tees, WT, MT Or ST, Deduct	-51.66	
			For Skewed Or Sloped Connections, Add	21.14	
05 12 23 00-0279	LF		W18 x 76 A992/A36 Structural Beam Or Girder	166.47	61.82
			For Hot Dip Galvanizing, Add	27.87	
			For High Strength Low Alloy A572-50 Steel, Add	14.98	
			For High Strength Low Alloy A588 Steel, Add	33.29	
			For Each Additional Top Copes >2, Add	1.00	
			For Structural Tees, WT, MT Or ST, Deduct	-48.36	
			For Skewed Or Sloped Connections, Add	19.98	
05 12 23 00-0280	LF		W18 x 71 A992/A36 Structural Beam Or Girder	159.45	61.70
			For Hot Dip Galvanizing, Add	25.99	
			For High Strength Low Alloy A572-50 Steel, Add	14.35	
			For High Strength Low Alloy A588 Steel, Add	31.89	
			For Each Additional Top Copes >2, Add	0.94	
			For Structural Tees, WT, MT Or ST, Deduct	-45.94	
			For Skewed Or Sloped Connections, Add	19.13	
05 12 23 00-0281	LF		W18 x 65 A992/A36 Structural Beam Or Girder	152.59	61.47
			For Hot Dip Galvanizing, Add	24.18	
			For High Strength Low Alloy A572-50 Steel, Add	13.73	
			For High Strength Low Alloy A588 Steel, Add	30.52	
			For Each Additional Top Copes >2, Add	0.87	
			For Structural Tees, WT, MT Or ST, Deduct	-43.59	
			For Skewed Or Sloped Connections, Add	18.31	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0282 LF W18 x 60 A992/A36 Structural Beam Or Girder	146.39	61.00
For Hot Dip Galvanizing, Add	22.56	
For High Strength Low Alloy A572-50 Steel, Add	13.18	
For High Strength Low Alloy A588 Steel, Add	29.28	
For Each Additional Top Copes >2, Add	0.81	
For Structural Tees, WT, MT Or ST, Deduct	-41.47	
For Skewed Or Sloped Connections, Add	17.57	
05 12 23 00-0283 LF W18 x 55 A992/A36 Structural Beam Or Girder	140.18	60.88
For Hot Dip Galvanizing, Add	20.90	
For High Strength Low Alloy A572-50 Steel, Add	12.62	
For High Strength Low Alloy A588 Steel, Add	28.04	
For Each Additional Top Copes >2, Add	0.75	
For Structural Tees, WT, MT Or ST, Deduct	-39.33	
For Skewed Or Sloped Connections, Add	16.82	
05 12 23 00-0284 LF W18 x 50 A992/A36 Structural Beam Or Girder	125.89	52.90
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	11.33	
For High Strength Low Alloy A588 Steel, Add	25.18	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-35.58	
For Skewed Or Sloped Connections, Add	15.11	
05 12 23 00-0285 LF W18 x 46 A992/A36 Structural Beam Or Girder	121.05	52.79
For Hot Dip Galvanizing, Add	17.97	
For High Strength Low Alloy A572-50 Steel, Add	10.89	
For High Strength Low Alloy A588 Steel, Add	24.21	
For Each Additional Top Copes >2, Add	0.65	
For Structural Tees, WT, MT Or ST, Deduct	-33.92	
For Skewed Or Sloped Connections, Add	14.53	
05 12 23 00-0286 LF W18 x 40 A992/A36 Structural Beam Or Girder	105.63	45.05
For Hot Dip Galvanizing, Add	15.97	
For High Strength Low Alloy A572-50 Steel, Add	9.51	
For High Strength Low Alloy A588 Steel, Add	21.13	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-29.76	
For Skewed Or Sloped Connections, Add	12.68	
05 12 23 00-0287 LF W18 x 35 A992/A36 Structural Beam Or Girder	99.57	44.93
For Hot Dip Galvanizing, Add	14.35	
For High Strength Low Alloy A572-50 Steel, Add	8.96	
For High Strength Low Alloy A588 Steel, Add	19.91	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-27.67	
For Skewed Or Sloped Connections, Add	11.95	
05 12 23 00-0288 LF W16 x 100 A992/A36 Structural Beam Or Girder	172.15	40.94
For Hot Dip Galvanizing, Add	35.66	
For High Strength Low Alloy A572-50 Steel, Add	15.49	
For High Strength Low Alloy A588 Steel, Add	34.43	
For Each Additional Top Copes >2, Add	1.29	
For Structural Tees, WT, MT Or ST, Deduct	-53.71	
For Skewed Or Sloped Connections, Add	20.66	
05 12 23 00-0289 LF W16 x 89 A992/A36 Structural Beam Or Girder	158.42	40.24
For Hot Dip Galvanizing, Add	32.05	
For High Strength Low Alloy A572-50 Steel, Add	14.26	
For High Strength Low Alloy A588 Steel, Add	31.68	
For Each Additional Top Copes >2, Add	1.15	
For Structural Tees, WT, MT Or ST, Deduct	-49.01	
For Skewed Or Sloped Connections, Add	19.01	
05 12 23 00-0290 LF W16 x 77 A992/A36 Structural Beam Or Girder	143.73	39.76
For Hot Dip Galvanizing, Add	28.13	
For High Strength Low Alloy A572-50 Steel, Add	12.94	
For High Strength Low Alloy A588 Steel, Add	28.75	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-43.95	
For Skewed Or Sloped Connections, Add	17.25	
05 12 23 00-0291 LF W16 x 67 A992/A36 Structural Beam Or Girder	131.20	39.18
For Hot Dip Galvanizing, Add	24.82	
For High Strength Low Alloy A572-50 Steel, Add	11.81	
For High Strength Low Alloy A588 Steel, Add	26.24	
For Each Additional Top Copes >2, Add	0.89	
For Structural Tees, WT, MT Or ST, Deduct	-39.66	
For Skewed Or Sloped Connections, Add	15.74	
05 12 23 00-0292 LF W16 x 57 A992/A36 Structural Beam Or Girder	118.80	38.59
For Hot Dip Galvanizing, Add	21.54	
For High Strength Low Alloy A572-50 Steel, Add	10.69	
For High Strength Low Alloy A588 Steel, Add	23.76	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-35.40	
For Skewed Or Sloped Connections, Add	14.26	
05 12 23 00-0293 LF W16 x 50 A992/A36 Structural Beam Or Girder	110.17	38.24
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	9.92	
For High Strength Low Alloy A588 Steel, Add	22.03	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-32.44	
For Skewed Or Sloped Connections, Add	13.22	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0294	LF		W16 x 45 A992/A36 Structural Beam Or Girder	104.10	38.01
			For Hot Dip Galvanizing, Add	17.62	
			For High Strength Low Alloy A572-50 Steel, Add	9.37	
			For High Strength Low Alloy A588 Steel, Add	20.82	
			For Each Additional Top Copes >2, Add	0.64	
			For Structural Tees, WT, MT Or ST, Deduct	-30.35	
			For Skewed Or Sloped Connections, Add	12.49	
05 12 23 00-0295	LF		W16 x 40 A992/A36 Structural Beam Or Girder	97.78	37.65
			For Hot Dip Galvanizing, Add	15.97	
			For High Strength Low Alloy A572-50 Steel, Add	8.80	
			For High Strength Low Alloy A588 Steel, Add	19.56	
			For Each Additional Top Copes >2, Add	0.58	
			For Structural Tees, WT, MT Or ST, Deduct	-28.19	
			For Skewed Or Sloped Connections, Add	11.73	
05 12 23 00-0296	LF		W16 x 36 A992/A36 Structural Beam Or Girder	92.81	37.42
			For Hot Dip Galvanizing, Add	14.69	
			For High Strength Low Alloy A572-50 Steel, Add	8.35	
			For High Strength Low Alloy A588 Steel, Add	18.56	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-26.50	
			For Skewed Or Sloped Connections, Add	11.14	
05 12 23 00-0297	LF		W16 x 31 A992/A36 Structural Beam Or Girder	78.75	29.79
			For Hot Dip Galvanizing, Add	13.03	
			For High Strength Low Alloy A572-50 Steel, Add	7.09	
			For High Strength Low Alloy A588 Steel, Add	15.75	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-22.79	
			For Skewed Or Sloped Connections, Add	9.45	
05 12 23 00-0298	LF		W16 x 26 A992/A36 Structural Beam Or Girder	70.81	29.44
			For Hot Dip Galvanizing, Add	10.93	
			For High Strength Low Alloy A572-50 Steel, Add	6.37	
			For High Strength Low Alloy A588 Steel, Add	14.16	
			For Each Additional Top Copes >2, Add	0.39	
			For Structural Tees, WT, MT Or ST, Deduct	-20.07	
			For Skewed Or Sloped Connections, Add	8.50	
05 12 23 00-0299	LF		W14 x 99 A992/A36 Structural Beam Or Girder	163.08	33.55
			For Hot Dip Galvanizing, Add	35.33	
			For High Strength Low Alloy A572-50 Steel, Add	14.68	
			For High Strength Low Alloy A588 Steel, Add	32.62	
			For Each Additional Top Copes >2, Add	1.27	
			For Structural Tees, WT, MT Or ST, Deduct	-51.71	
			For Skewed Or Sloped Connections, Add	19.57	
05 12 23 00-0300	LF		W14 x 90 A992/A36 Structural Beam Or Girder	151.89	32.96
			For Hot Dip Galvanizing, Add	32.39	
			For High Strength Low Alloy A572-50 Steel, Add	13.67	
			For High Strength Low Alloy A588 Steel, Add	30.38	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-47.88	
			For Skewed Or Sloped Connections, Add	18.23	
05 12 23 00-0301	LF		W14 x 82 A992/A36 Structural Beam Or Girder	141.93	32.61
			For Hot Dip Galvanizing, Add	29.75	
			For High Strength Low Alloy A572-50 Steel, Add	12.77	
			For High Strength Low Alloy A588 Steel, Add	28.39	
			For Each Additional Top Copes >2, Add	1.07	
			For Structural Tees, WT, MT Or ST, Deduct	-44.47	
			For Skewed Or Sloped Connections, Add	17.03	
05 12 23 00-0302	LF		W14 x 74 A992/A36 Structural Beam Or Girder	131.97	32.14
			For Hot Dip Galvanizing, Add	27.11	
			For High Strength Low Alloy A572-50 Steel, Add	11.88	
			For High Strength Low Alloy A588 Steel, Add	26.39	
			For Each Additional Top Copes >2, Add	0.98	
			For Structural Tees, WT, MT Or ST, Deduct	-41.05	
			For Skewed Or Sloped Connections, Add	15.84	
05 12 23 00-0303	LF		W14 x 68 A992/A36 Structural Beam Or Girder	124.56	31.79
			For Hot Dip Galvanizing, Add	25.16	
			For High Strength Low Alloy A572-50 Steel, Add	11.21	
			For High Strength Low Alloy A588 Steel, Add	24.91	
			For Each Additional Top Copes >2, Add	0.91	
			For Structural Tees, WT, MT Or ST, Deduct	-38.51	
			For Skewed Or Sloped Connections, Add	14.95	
05 12 23 00-0304	LF		W14 x 61 A992/A36 Structural Beam Or Girder	115.93	31.44
			For Hot Dip Galvanizing, Add	22.86	
			For High Strength Low Alloy A572-50 Steel, Add	10.43	
			For High Strength Low Alloy A588 Steel, Add	23.19	
			For Each Additional Top Copes >2, Add	0.82	
			For Structural Tees, WT, MT Or ST, Deduct	-35.54	
			For Skewed Or Sloped Connections, Add	13.91	
05 12 23 00-0305	LF		W14 x 53 A992/A36 Structural Beam Or Girder	106.08	30.97
			For Hot Dip Galvanizing, Add	20.26	
			For High Strength Low Alloy A572-50 Steel, Add	9.55	
			For High Strength Low Alloy A588 Steel, Add	21.22	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-32.17	
			For Skewed Or Sloped Connections, Add	12.73	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0306 LF W14 x 48 A992/A36 Structural Beam Or Girder	99.76	30.61
For Hot Dip Galvanizing, Add	18.60	
For High Strength Low Alloy A572-50 Steel, Add	8.98	
For High Strength Low Alloy A588 Steel, Add	19.95	
For Each Additional Top Copes >2, Add	0.67	
For Structural Tees, WT, MT Or ST, Deduct	-30.01	
For Skewed Or Sloped Connections, Add	11.97	
05 12 23 00-0307 LF W14 x 43 A992/A36 Structural Beam Or Girder	93.56	30.50
For Hot Dip Galvanizing, Add	16.95	
For High Strength Low Alloy A572-50 Steel, Add	8.42	
For High Strength Low Alloy A588 Steel, Add	18.71	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-27.87	
For Skewed Or Sloped Connections, Add	11.23	
05 12 23 00-0308 LF W14 x 38 A992/A36 Structural Beam Or Girder	87.38	30.26
For Hot Dip Galvanizing, Add	15.33	
For High Strength Low Alloy A572-50 Steel, Add	7.86	
For High Strength Low Alloy A588 Steel, Add	17.48	
For Each Additional Top Copes >2, Add	0.55	
For Structural Tees, WT, MT Or ST, Deduct	-25.76	
For Skewed Or Sloped Connections, Add	10.49	
05 12 23 00-0309 LF W14 x 34 A992/A36 Structural Beam Or Girder	82.40	29.91
For Hot Dip Galvanizing, Add	14.01	
For High Strength Low Alloy A572-50 Steel, Add	7.42	
For High Strength Low Alloy A588 Steel, Add	16.48	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-24.05	
For Skewed Or Sloped Connections, Add	9.89	
05 12 23 00-0310 LF W14 x 30 A992/A36 Structural Beam Or Girder	77.41	29.79
For Hot Dip Galvanizing, Add	12.69	
For High Strength Low Alloy A572-50 Steel, Add	6.97	
For High Strength Low Alloy A588 Steel, Add	15.48	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-22.34	
For Skewed Or Sloped Connections, Add	9.29	
05 12 23 00-0311 LF W14 x 26 A992/A36 Structural Beam Or Girder	72.43	29.44
For Hot Dip Galvanizing, Add	11.37	
For High Strength Low Alloy A572-50 Steel, Add	6.52	
For High Strength Low Alloy A588 Steel, Add	14.49	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-20.63	
For Skewed Or Sloped Connections, Add	8.69	
05 12 23 00-0312 LF W14 x 22 A992/A36 Structural Beam Or Girder	67.58	29.33
For Hot Dip Galvanizing, Add	10.09	
For High Strength Low Alloy A572-50 Steel, Add	6.08	
For High Strength Low Alloy A588 Steel, Add	13.52	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-18.97	
For Skewed Or Sloped Connections, Add	8.11	
05 12 23 00-0313 LF W12 x 87 A992/A36 Structural Beam Or Girder	148.26	32.84
For Hot Dip Galvanizing, Add	31.41	
For High Strength Low Alloy A572-50 Steel, Add	13.34	
For High Strength Low Alloy A588 Steel, Add	29.65	
For Each Additional Top Copes >2, Add	1.13	
For Structural Tees, WT, MT Or ST, Deduct	-46.63	
For Skewed Or Sloped Connections, Add	17.79	
05 12 23 00-0314 LF W12 x 79 A992/A36 Structural Beam Or Girder	138.29	32.37
For Hot Dip Galvanizing, Add	28.77	
For High Strength Low Alloy A572-50 Steel, Add	12.45	
For High Strength Low Alloy A588 Steel, Add	27.66	
For Each Additional Top Copes >2, Add	1.04	
For Structural Tees, WT, MT Or ST, Deduct	-43.21	
For Skewed Or Sloped Connections, Add	16.59	
05 12 23 00-0315 LF W12 x 72 A992/A36 Structural Beam Or Girder	129.55	32.02
For Hot Dip Galvanizing, Add	26.48	
For High Strength Low Alloy A572-50 Steel, Add	11.66	
For High Strength Low Alloy A588 Steel, Add	25.91	
For Each Additional Top Copes >2, Add	0.95	
For Structural Tees, WT, MT Or ST, Deduct	-40.22	
For Skewed Or Sloped Connections, Add	15.55	
05 12 23 00-0316 LF W12 x 65 A992/A36 Structural Beam Or Girder	120.92	31.67
For Hot Dip Galvanizing, Add	24.18	
For High Strength Low Alloy A572-50 Steel, Add	10.88	
For High Strength Low Alloy A588 Steel, Add	24.18	
For Each Additional Top Copes >2, Add	0.87	
For Structural Tees, WT, MT Or ST, Deduct	-37.25	
For Skewed Or Sloped Connections, Add	14.51	
05 12 23 00-0317 LF W12 x 58 A992/A36 Structural Beam Or Girder	112.17	31.21
For Hot Dip Galvanizing, Add	21.88	
For High Strength Low Alloy A572-50 Steel, Add	10.10	
For High Strength Low Alloy A588 Steel, Add	22.43	
For Each Additional Top Copes >2, Add	0.79	
For Structural Tees, WT, MT Or ST, Deduct	-34.26	
For Skewed Or Sloped Connections, Add	13.46	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0318 LF W12 x 53 A992/A36 Structural Beam Or Girder	106.08	30.97
For Hot Dip Galvanizing, Add	20.26	
For High Strength Low Alloy A572-50 Steel, Add	9.55	
For High Strength Low Alloy A588 Steel, Add	21.22	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-32.17	
For Skewed Or Sloped Connections, Add	12.73	
05 12 23 00-0319 LF W12 x 50 A992/A36 Structural Beam Or Girder	102.19	30.86
For Hot Dip Galvanizing, Add	19.24	
For High Strength Low Alloy A572-50 Steel, Add	9.20	
For High Strength Low Alloy A588 Steel, Add	20.44	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-30.84	
For Skewed Or Sloped Connections, Add	12.26	
05 12 23 00-0320 LF W12 x 45 A992/A36 Structural Beam Or Girder	96.12	30.61
For Hot Dip Galvanizing, Add	17.62	
For High Strength Low Alloy A572-50 Steel, Add	8.65	
For High Strength Low Alloy A588 Steel, Add	19.22	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-28.75	
For Skewed Or Sloped Connections, Add	11.53	
05 12 23 00-0321 LF W12 x 40 A992/A36 Structural Beam Or Girder	81.83	22.76
For Hot Dip Galvanizing, Add	15.97	
For High Strength Low Alloy A572-50 Steel, Add	7.36	
For High Strength Low Alloy A588 Steel, Add	16.37	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-25.00	
For Skewed Or Sloped Connections, Add	9.82	
05 12 23 00-0322 LF W12 x 35 A992/A36 Structural Beam Or Girder	75.76	22.64
For Hot Dip Galvanizing, Add	14.35	
For High Strength Low Alloy A572-50 Steel, Add	6.82	
For High Strength Low Alloy A588 Steel, Add	15.15	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-22.91	
For Skewed Or Sloped Connections, Add	9.09	
05 12 23 00-0323 LF W12 x 30 A992/A36 Structural Beam Or Girder	69.43	22.29
For Hot Dip Galvanizing, Add	12.69	
For High Strength Low Alloy A572-50 Steel, Add	6.25	
For High Strength Low Alloy A588 Steel, Add	13.89	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.75	
For Skewed Or Sloped Connections, Add	8.33	
05 12 23 00-0324 LF W12 x 26 A992/A36 Structural Beam Or Girder	64.45	22.06
For Hot Dip Galvanizing, Add	11.37	
For High Strength Low Alloy A572-50 Steel, Add	5.80	
For High Strength Low Alloy A588 Steel, Add	12.89	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.04	
For Skewed Or Sloped Connections, Add	7.73	
05 12 23 00-0325 LF W12 x 22 A992/A36 Structural Beam Or Girder	59.59	21.82
For Hot Dip Galvanizing, Add	10.09	
For High Strength Low Alloy A572-50 Steel, Add	5.36	
For High Strength Low Alloy A588 Steel, Add	11.92	
For Each Additional Top Copes >2, Add	0.36	
For Structural Tees, WT, MT Or ST, Deduct	-17.37	
For Skewed Or Sloped Connections, Add	7.15	
05 12 23 00-0326 LF W12 x 19 A992/A36 Structural Beam Or Girder	55.82	21.71
For Hot Dip Galvanizing, Add	9.08	
For High Strength Low Alloy A572-50 Steel, Add	5.02	
For High Strength Low Alloy A588 Steel, Add	11.16	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-16.07	
For Skewed Or Sloped Connections, Add	6.70	
05 12 23 00-0327 LF W12 x 16 A992/A36 Structural Beam Or Girder	52.05	21.35
For Hot Dip Galvanizing, Add	8.10	
For High Strength Low Alloy A572-50 Steel, Add	4.68	
For High Strength Low Alloy A588 Steel, Add	10.41	
For Each Additional Top Copes >2, Add	0.29	
For Structural Tees, WT, MT Or ST, Deduct	-14.79	
For Skewed Or Sloped Connections, Add	6.25	
05 12 23 00-0328 LF W12 x 14 A992/A36 Structural Beam Or Girder	49.63	21.35
For Hot Dip Galvanizing, Add	7.46	
For High Strength Low Alloy A572-50 Steel, Add	4.47	
For High Strength Low Alloy A588 Steel, Add	9.93	
For Each Additional Top Copes >2, Add	0.27	
For Structural Tees, WT, MT Or ST, Deduct	-13.96	
For Skewed Or Sloped Connections, Add	5.96	
05 12 23 00-0329 LF W10 x 68 A992/A36 Structural Beam Or Girder	116.97	24.52
For Hot Dip Galvanizing, Add	25.23	
For High Strength Low Alloy A572-50 Steel, Add	10.53	
For High Strength Low Alloy A588 Steel, Add	23.39	
For Each Additional Top Copes >2, Add	0.91	
For Structural Tees, WT, MT Or ST, Deduct	-37.03	
For Skewed Or Sloped Connections, Add	14.04	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0330 LF W10 x 60 A992/A36 Structural Beam Or Girder	107.13	24.05
For Hot Dip Galvanizing, Add	22.63	
For High Strength Low Alloy A572-50 Steel, Add	9.64	
For High Strength Low Alloy A588 Steel, Add	21.43	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-33.66	
For Skewed Or Sloped Connections, Add	12.86	
05 12 23 00-0331 LF W10 x 54 A992/A36 Structural Beam Or Girder	99.59	23.57
For Hot Dip Galvanizing, Add	20.64	
For High Strength Low Alloy A572-50 Steel, Add	8.96	
For High Strength Low Alloy A588 Steel, Add	19.92	
For Each Additional Top Copes >2, Add	0.74	
For Structural Tees, WT, MT Or ST, Deduct	-31.07	
For Skewed Or Sloped Connections, Add	11.95	
05 12 23 00-0332 LF W10 x 49 A992/A36 Structural Beam Or Girder	93.41	23.34
For Hot Dip Galvanizing, Add	19.02	
For High Strength Low Alloy A572-50 Steel, Add	8.41	
For High Strength Low Alloy A588 Steel, Add	18.68	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-28.96	
For Skewed Or Sloped Connections, Add	11.21	
05 12 23 00-0333 LF W10 x 45 A992/A36 Structural Beam Or Girder	88.43	23.22
For Hot Dip Galvanizing, Add	17.70	
For High Strength Low Alloy A572-50 Steel, Add	7.96	
For High Strength Low Alloy A588 Steel, Add	17.69	
For Each Additional Top Copes >2, Add	0.64	
For Structural Tees, WT, MT Or ST, Deduct	-27.25	
For Skewed Or Sloped Connections, Add	10.61	
05 12 23 00-0334 LF W10 x 39 A992/A36 Structural Beam Or Girder	81.02	22.76
For Hot Dip Galvanizing, Add	15.74	
For High Strength Low Alloy A572-50 Steel, Add	7.29	
For High Strength Low Alloy A588 Steel, Add	16.20	
For Each Additional Top Copes >2, Add	0.57	
For Structural Tees, WT, MT Or ST, Deduct	-24.71	
For Skewed Or Sloped Connections, Add	9.72	
05 12 23 00-0335 LF W10 x 33 A992/A36 Structural Beam Or Girder	73.59	22.41
For Hot Dip Galvanizing, Add	13.78	
For High Strength Low Alloy A572-50 Steel, Add	6.62	
For High Strength Low Alloy A588 Steel, Add	14.72	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-22.17	
For Skewed Or Sloped Connections, Add	8.83	
05 12 23 00-0336 LF W10 x 30 A992/A36 Structural Beam Or Girder	69.82	22.29
For Hot Dip Galvanizing, Add	12.77	
For High Strength Low Alloy A572-50 Steel, Add	6.28	
For High Strength Low Alloy A588 Steel, Add	13.96	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-20.87	
For Skewed Or Sloped Connections, Add	8.38	
05 12 23 00-0337 LF W10 x 26 A992/A36 Structural Beam Or Girder	64.96	22.17
For Hot Dip Galvanizing, Add	11.49	
For High Strength Low Alloy A572-50 Steel, Add	5.85	
For High Strength Low Alloy A588 Steel, Add	12.99	
For Each Additional Top Copes >2, Add	0.41	
For Structural Tees, WT, MT Or ST, Deduct	-19.20	
For Skewed Or Sloped Connections, Add	7.80	
05 12 23 00-0338 LF W10 x 22 A992/A36 Structural Beam Or Girder	59.86	21.82
For Hot Dip Galvanizing, Add	10.17	
For High Strength Low Alloy A572-50 Steel, Add	5.39	
For High Strength Low Alloy A588 Steel, Add	11.97	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-17.47	
For Skewed Or Sloped Connections, Add	7.18	
05 12 23 00-0339 LF W10 x 19 A992/A36 Structural Beam Or Girder	56.22	21.71
For Hot Dip Galvanizing, Add	9.19	
For High Strength Low Alloy A572-50 Steel, Add	5.06	
For High Strength Low Alloy A588 Steel, Add	11.24	
For Each Additional Top Copes >2, Add	0.33	
For Structural Tees, WT, MT Or ST, Deduct	-16.21	
For Skewed Or Sloped Connections, Add	6.75	
05 12 23 00-0340 LF W10 x 17 A992/A36 Structural Beam Or Girder	53.66	21.58
For Hot Dip Galvanizing, Add	8.51	
For High Strength Low Alloy A572-50 Steel, Add	4.83	
For High Strength Low Alloy A588 Steel, Add	10.73	
For Each Additional Top Copes >2, Add	0.31	
For Structural Tees, WT, MT Or ST, Deduct	-15.33	
For Skewed Or Sloped Connections, Add	6.44	
05 12 23 00-0341 LF W10 x 15 A992/A36 Structural Beam Or Girder	51.23	21.35
For Hot Dip Galvanizing, Add	7.87	
For High Strength Low Alloy A572-50 Steel, Add	4.61	
For High Strength Low Alloy A588 Steel, Add	10.25	
For Each Additional Top Copes >2, Add	0.28	
For Structural Tees, WT, MT Or ST, Deduct	-14.50	
For Skewed Or Sloped Connections, Add	6.15	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0342 LF W10 x 12 A992/A36 Structural Beam Or Girder	47.60	21.35
For Hot Dip Galvanizing, Add	6.89	
For High Strength Low Alloy A572-50 Steel, Add	4.28	
For High Strength Low Alloy A588 Steel, Add	9.52	
For Each Additional Top Copes >2, Add	0.25	
For Structural Tees, WT, MT Or ST, Deduct	-13.25	
For Skewed Or Sloped Connections, Add	5.71	
05 12 23 00-0343 LF W8 x 35 A992/A36 Structural Beam Or Girder	76.03	22.64
For Hot Dip Galvanizing, Add	14.42	
For High Strength Low Alloy A572-50 Steel, Add	6.84	
For High Strength Low Alloy A588 Steel, Add	15.21	
For Each Additional Top Copes >2, Add	0.52	
For Structural Tees, WT, MT Or ST, Deduct	-23.00	
For Skewed Or Sloped Connections, Add	9.12	
05 12 23 00-0344 LF W8 x 31 A992/A36 Structural Beam Or Girder	71.04	22.29
For Hot Dip Galvanizing, Add	13.11	
For High Strength Low Alloy A572-50 Steel, Add	6.39	
For High Strength Low Alloy A588 Steel, Add	14.21	
For Each Additional Top Copes >2, Add	0.47	
For Structural Tees, WT, MT Or ST, Deduct	-21.29	
For Skewed Or Sloped Connections, Add	8.52	
05 12 23 00-0345 LF W8 x 28 A992/A36 Structural Beam Or Girder	66.11	21.00
For Hot Dip Galvanizing, Add	12.13	
For High Strength Low Alloy A572-50 Steel, Add	5.95	
For High Strength Low Alloy A588 Steel, Add	13.22	
For Each Additional Top Copes >2, Add	0.44	
For Structural Tees, WT, MT Or ST, Deduct	-19.78	
For Skewed Or Sloped Connections, Add	7.93	
05 12 23 00-0346 LF W8 x 24 A992/A36 Structural Beam Or Girder	60.37	19.71
For Hot Dip Galvanizing, Add	10.93	
For High Strength Low Alloy A572-50 Steel, Add	5.43	
For High Strength Low Alloy A588 Steel, Add	12.07	
For Each Additional Top Copes >2, Add	0.39	
For Structural Tees, WT, MT Or ST, Deduct	-17.98	
For Skewed Or Sloped Connections, Add	7.24	
05 12 23 00-0347 LF W8 x 21 A992/A36 Structural Beam Or Girder	56.19	18.30
For Hot Dip Galvanizing, Add	10.16	
For High Strength Low Alloy A572-50 Steel, Add	5.06	
For High Strength Low Alloy A588 Steel, Add	11.24	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-16.73	
For Skewed Or Sloped Connections, Add	6.74	
05 12 23 00-0348 LF W8 x 18 A992/A36 Structural Beam Or Girder	49.34	17.00
For Hot Dip Galvanizing, Add	8.65	
For High Strength Low Alloy A572-50 Steel, Add	4.44	
For High Strength Low Alloy A588 Steel, Add	9.87	
For Each Additional Top Copes >2, Add	0.31	
For Structural Tees, WT, MT Or ST, Deduct	-14.54	
For Skewed Or Sloped Connections, Add	5.92	
05 12 23 00-0349 LF W8 x 10 A992/A36 Structural Beam Or Girder	29.55	12.20
For Hot Dip Galvanizing, Add	4.62	
For High Strength Low Alloy A572-50 Steel, Add	2.66	
For High Strength Low Alloy A588 Steel, Add	5.91	
For Each Additional Top Copes >2, Add	0.17	
For Structural Tees, WT, MT Or ST, Deduct	-8.41	
For Skewed Or Sloped Connections, Add	3.55	
05 12 23 00-0350 LF W6 x 9 A992/A36 Structural Beam Or Girder	26.98	9.97
For Hot Dip Galvanizing, Add	4.56	
For High Strength Low Alloy A572-50 Steel, Add	2.43	
For High Strength Low Alloy A588 Steel, Add	5.40	
For Each Additional Top Copes >2, Add	0.16	
For Structural Tees, WT, MT Or ST, Deduct	-7.86	
For Skewed Or Sloped Connections, Add	3.24	
05 12 23 00-0351 A992/A36 Structural Steel, M Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0352 LF M14 x 18 A992/A36 Structural Steel	54.90	16.05
For Hot Dip Galvanizing, Add	10.49	
For High Strength Low Alloy A572-50 Steel, Add	4.94	
For High Strength Low Alloy A588 Grade B Steel, Add	10.98	
05 12 23 00-0353 LF M12 x 11.8 A992/A36 Structural Steel	39.91	14.20
For Hot Dip Galvanizing, Add	6.87	
For High Strength Low Alloy A572-50 Steel, Add	3.59	
For High Strength Low Alloy A588 Grade B Steel, Add	7.98	
05 12 23 00-0354 LF M10 x 9 A992/A36 Structural Steel	31.03	11.40
For Hot Dip Galvanizing, Add	5.24	
For High Strength Low Alloy A572-50 Steel, Add	2.79	
For High Strength Low Alloy A588 Grade B Steel, Add	6.21	
05 12 23 00-0355 LF M8 x 6.5 A992/A36 Structural Steel	22.42	8.23
For Hot Dip Galvanizing, Add	3.79	
For High Strength Low Alloy A572-50 Steel, Add	2.02	
For High Strength Low Alloy A588 Grade B Steel, Add	4.48	
05 12 23 00-0356 LF M6 x 20 A992/A36 Structural Steel	61.92	18.88
For Hot Dip Galvanizing, Add	11.65	
For High Strength Low Alloy A572-50 Steel, Add	5.57	
For High Strength Low Alloy A588 Grade B Steel, Add	12.38	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0357 LF M6 x 4.4 A992/A36 Structural Steel.....	15.17	5.56
For Hot Dip Galvanizing, Add	2.56	
For High Strength Low Alloy A572-50 Steel, Add	1.37	
For High Strength Low Alloy A588 Grade B Steel, Add	3.03	
05 12 23 00-0358 LF M5 x 18.9 A992/A36 Structural Steel.....	59.78	18.88
For Hot Dip Galvanizing, Add	10.99	
For High Strength Low Alloy A572-50 Steel, Add	5.38	
For High Strength Low Alloy A588 Grade B Steel, Add	11.96	
05 12 23 00-0359 LF M4 x 13 A992/A36 Structural Steel.....	49.57	18.53
For Hot Dip Galvanizing, Add	8.29	
For High Strength Low Alloy A572-50 Steel, Add	4.46	
For High Strength Low Alloy A588 Grade B Steel, Add	9.91	
05 12 23 00-0360 A992/A36 Structural Steel, S Shapes (05 12 23 00-0133)		
Note: Includes material delivery and erection.		
05 12 23 00-0361 LF S24 x 121 A992/A36 Structural Steel	327.28	81.31
For Hot Dip Galvanizing, Add	66.76	
For High Strength Low Alloy A572-50 Steel, Add	29.46	
For High Strength Low Alloy A588 Grade B Steel, Add	65.46	
05 12 23 00-0362 LF S24 x 106 A992/A36 Structural Steel	290.70	74.98
For Hot Dip Galvanizing, Add	58.49	
For High Strength Low Alloy A572-50 Steel, Add	26.16	
For High Strength Low Alloy A588 Grade B Steel, Add	58.14	
05 12 23 00-0363 LF S24 x 100 A992/A36 Structural Steel	278.21	74.45
For Hot Dip Galvanizing, Add	55.18	
For High Strength Low Alloy A572-50 Steel, Add	25.04	
For High Strength Low Alloy A588 Grade B Steel, Add	55.64	
05 12 23 00-0364 LF S24 x 90 A992/A36 Structural Steel	254.16	70.53
For Hot Dip Galvanizing, Add	49.66	
For High Strength Low Alloy A572-50 Steel, Add	22.87	
For High Strength Low Alloy A588 Grade B Steel, Add	50.83	
05 12 23 00-0365 LF S24 x 80 A992/A36 Structural Steel	229.43	66.01
For Hot Dip Galvanizing, Add	44.14	
For High Strength Low Alloy A572-50 Steel, Add	20.65	
For High Strength Low Alloy A588 Grade B Steel, Add	45.89	
05 12 23 00-0366 LF S20 x 96 A992/A36 Structural Steel	267.09	71.48
For Hot Dip Galvanizing, Add	52.97	
For High Strength Low Alloy A572-50 Steel, Add	24.04	
For High Strength Low Alloy A588 Grade B Steel, Add	53.42	
05 12 23 00-0367 LF S20 x 86 A992/A36 Structural Steel	242.86	67.41
For Hot Dip Galvanizing, Add	47.45	
For High Strength Low Alloy A572-50 Steel, Add	21.86	
For High Strength Low Alloy A588 Grade B Steel, Add	48.57	
05 12 23 00-0368 LF S20 x 75 A992/A36 Structural Steel	215.09	61.88
For Hot Dip Galvanizing, Add	41.38	
For High Strength Low Alloy A572-50 Steel, Add	19.36	
For High Strength Low Alloy A588 Grade B Steel, Add	43.02	
05 12 23 00-0369 LF S20 x 66 A992/A36 Structural Steel	192.34	57.31
For Hot Dip Galvanizing, Add	36.42	
For High Strength Low Alloy A572-50 Steel, Add	17.31	
For High Strength Low Alloy A588 Grade B Steel, Add	38.47	
05 12 23 00-0370 LF S18 x 70 A992/A36 Structural Steel	203.99	60.79
For Hot Dip Galvanizing, Add	38.62	
For High Strength Low Alloy A572-50 Steel, Add	18.36	
For High Strength Low Alloy A588 Grade B Steel, Add	40.80	
05 12 23 00-0371 LF S18 x 54.7 A992/A36 Structural Steel	162.07	50.00
For Hot Dip Galvanizing, Add	30.18	
For High Strength Low Alloy A572-50 Steel, Add	14.59	
For High Strength Low Alloy A588 Grade B Steel, Add	32.41	
05 12 23 00-0372 LF S15 x 50 A992/A36 Structural Steel	150.71	48.11
For Hot Dip Galvanizing, Add	27.59	
For High Strength Low Alloy A572-50 Steel, Add	13.56	
For High Strength Low Alloy A588 Grade B Steel, Add	30.14	
05 12 23 00-0373 LF S15 x 42.9 A992/A36 Structural Steel	131.63	43.45
For Hot Dip Galvanizing, Add	23.67	
For High Strength Low Alloy A572-50 Steel, Add	11.85	
For High Strength Low Alloy A588 Grade B Steel, Add	26.33	
05 12 23 00-0374 LF S12 x 50 A992/A36 Structural Steel	148.15	45.71
For Hot Dip Galvanizing, Add	27.59	
For High Strength Low Alloy A572-50 Steel, Add	13.33	
For High Strength Low Alloy A588 Grade B Steel, Add	29.63	
05 12 23 00-0375 LF S12 x 40.8 A992/A36 Structural Steel	122.97	39.26
For Hot Dip Galvanizing, Add	22.51	
For High Strength Low Alloy A572-50 Steel, Add	11.07	
For High Strength Low Alloy A588 Grade B Steel, Add	24.59	
05 12 23 00-0376 LF S12 x 35 A992/A36 Structural Steel	107.38	35.45
For Hot Dip Galvanizing, Add	19.31	
For High Strength Low Alloy A572-50 Steel, Add	9.66	
For High Strength Low Alloy A588 Grade B Steel, Add	21.48	
05 12 23 00-0377 LF S12 x 31.8 A992/A36 Structural Steel	99.38	33.90
For Hot Dip Galvanizing, Add	17.55	
For High Strength Low Alloy A572-50 Steel, Add	8.94	
For High Strength Low Alloy A588 Grade B Steel, Add	19.88	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0378	LF		S10 x 35 A992/A36 Structural Steel.....	109.38	37.32
			<i>For Hot Dip Galvanizing, Add</i>	19.31	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.84	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.88	
05 12 23 00-0379	LF		S10 x 25.4 A992/A36 Structural Steel.....	80.89	28.51
			<i>For Hot Dip Galvanizing, Add</i>	14.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.28	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	16.18	
05 12 23 00-0380	LF		S8 x 23 A992/A36 Structural Steel.....	73.25	25.81
			<i>For Hot Dip Galvanizing, Add</i>	12.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.59	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.65	
05 12 23 00-0381	LF		S8 x 18.4 A992/A36 Structural Steel.....	59.77	21.74
			<i>For Hot Dip Galvanizing, Add</i>	10.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.38	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	11.95	
05 12 23 00-0382	LF		S7 x 20 A992/A36 Structural Steel.....	64.96	23.63
			<i>For Hot Dip Galvanizing, Add</i>	11.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	5.85	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	12.99	
05 12 23 00-0383	LF		S7 x 15.3 A992/A36 Structural Steel.....	50.71	19.03
			<i>For Hot Dip Galvanizing, Add</i>	8.44	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.14	
05 12 23 00-0384	LF		S6 x 17.25 A992/A36 Structural Steel.....	55.42	19.80
			<i>For Hot Dip Galvanizing, Add</i>	9.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.99	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	11.08	
05 12 23 00-0385	LF		S6 x 12.5 A992/A36 Structural Steel.....	47.72	18.30
			<i>For Hot Dip Galvanizing, Add</i>	7.81	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.29	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	9.54	
05 12 23 00-0386	LF		S5 x 14.75 A992/A36 Structural Steel.....	50.67	18.65
			<i>For Hot Dip Galvanizing, Add</i>	8.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	4.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	10.13	
05 12 23 00-0387	LF		S5 x 10 A992/A36 Structural Steel.....	43.42	18.18
			<i>For Hot Dip Galvanizing, Add</i>	6.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.91	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	8.68	
05 12 23 00-0388	LF		S4 x 9.5 A992/A36 Structural Steel.....	42.30	18.18
			<i>For Hot Dip Galvanizing, Add</i>	6.33	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.81	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	8.46	
05 12 23 00-0389	LF		S4 x 7.7 A992/A36 Structural Steel.....	39.71	18.18
			<i>For Hot Dip Galvanizing, Add</i>	5.65	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.57	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	7.94	
05 12 23 00-0390	LF		S3 x 7.5 A992/A36 Structural Steel.....	39.46	18.18
			<i>For Hot Dip Galvanizing, Add</i>	5.58	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.55	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	7.89	
05 12 23 00-0391	LF		S3 x 5.7 A992/A36 Structural Steel.....	36.38	18.07
			<i>For Hot Dip Galvanizing, Add</i>	4.76	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	3.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	7.28	
05 12 23 00-0392			A992/A36 Structural Steel, HP Shapes <small>(05 12 23 00-0133)</small>		
			Note: Includes material delivery and erection.		
05 12 23 00-0393	LF		HP14 x 117 A992/A36 Structural Steel.....	196.56	24.09
			<i>For Hot Dip Galvanizing, Add</i>	47.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.69	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	39.31	
05 12 23 00-0394	LF		HP14 x 102 A992/A36 Structural Steel.....	172.24	22.41
			<i>For Hot Dip Galvanizing, Add</i>	41.17	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.50	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.45	
05 12 23 00-0395	LF		HP14 x 89 A992/A36 Structural Steel.....	153.66	21.02
			<i>For Hot Dip Galvanizing, Add</i>	36.42	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.83	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	30.73	
05 12 23 00-0396	LF		HP14 x 73 A992/A36 Structural Steel.....	127.69	19.81
			<i>For Hot Dip Galvanizing, Add</i>	29.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.49	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.54	
05 12 23 00-0397	LF		HP13 x 100 A992/A36 Structural Steel.....	168.88	21.98
			<i>For Hot Dip Galvanizing, Add</i>	40.36	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.20	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.78	
05 12 23 00-0398	LF		HP13 x 87 A992/A36 Structural Steel.....	150.22	20.56
			<i>For Hot Dip Galvanizing, Add</i>	35.60	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.52	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	30.04	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0399	LF		HP13 x 73 A992/A36 Structural Steel.....	127.69	19.81
			<i>For Hot Dip Galvanizing, Add</i>	29.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.49	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.54	
05 12 23 00-0400	LF		HP13 x 60 A992/A36 Structural Steel.....	108.62	18.99
			<i>For Hot Dip Galvanizing, Add</i>	24.52	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.78	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.72	
05 12 23 00-0401	LF		HP12 x 84 A992/A36 Structural Steel.....	142.16	21.68
			<i>For Hot Dip Galvanizing, Add</i>	33.04	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.79	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.43	
05 12 23 00-0402	LF		HP12 x 74 A992/A36 Structural Steel.....	125.85	20.44
			<i>For Hot Dip Galvanizing, Add</i>	28.88	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.33	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.17	
05 12 23 00-0403	LF		HP12 x 63 A992/A36 Structural Steel.....	108.57	18.80
			<i>For Hot Dip Galvanizing, Add</i>	24.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.77	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.71	
05 12 23 00-0404	LF		HP12 x 53 A992/A36 Structural Steel.....	99.67	17.87
			<i>For Hot Dip Galvanizing, Add</i>	22.37	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.97	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.93	
05 12 23 00-0405	LF		HP10 x 57 A992/A36 Structural Steel.....	104.90	18.34
			<i>For Hot Dip Galvanizing, Add</i>	23.68	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.44	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.98	
05 12 23 00-0406	LF		HP10 x 42 A992/A36 Structural Steel.....	86.86	17.19
			<i>For Hot Dip Galvanizing, Add</i>	19.02	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.37	
05 12 23 00-0407	LF		HP8 x 36 A992/A36 Structural Steel.....	75.76	16.21
			<i>For Hot Dip Galvanizing, Add</i>	16.23	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.82	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.15	
05 12 23 00-0408			Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
			Note: Includes cutting to length. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0409			Angle Iron - L <small>(05 12 23 00-0408)</small>		
05 12 23 00-0410			1/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0411	LF		1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.74	1.64
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.23	
			<i>For >500 To 1,000, Deduct</i>	-0.36	
			<i>For >1,000, Deduct</i>	-0.48	
			<i>For Galvanized Steel, Add</i>	0.33	
			<i>For 304 Stainless Steel, Add</i>	1.54	
			<i>For High Strength Steel (HSS), Add</i>	0.55	
05 12 23 00-0412	LF		3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.18	1.86
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.27	
			<i>For >500 To 1,000, Deduct</i>	-0.41	
			<i>For >1,000, Deduct</i>	-0.55	
			<i>For Galvanized Steel, Add</i>	0.43	
			<i>For 304 Stainless Steel, Add</i>	1.97	
			<i>For High Strength Steel (HSS), Add</i>	0.64	
05 12 23 00-0413	LF		3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.59	2.06
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.30	
			<i>For >500 To 1,000, Deduct</i>	-0.45	
			<i>For >1,000, Deduct</i>	-0.61	
			<i>For Galvanized Steel, Add</i>	0.53	
			<i>For 304 Stainless Steel, Add</i>	2.42	
			<i>For High Strength Steel (HSS), Add</i>	0.72	
05 12 23 00-0414	LF		1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.03	2.29
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.51	
			<i>For >1,000, Deduct</i>	-0.68	
			<i>For Galvanized Steel, Add</i>	0.61	
			<i>For 304 Stainless Steel, Add</i>	2.79	
			<i>For High Strength Steel (HSS), Add</i>	0.81	
05 12 23 00-0415	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	4.43	2.47
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.55	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For Galvanized Steel, Add</i>	0.71	
			<i>For 304 Stainless Steel, Add</i>	3.25	
			<i>For High Strength Steel (HSS), Add</i>	0.89	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0416	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.33	2.90
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000, Deduct</i>	-0.88	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0417	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.33	2.90
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500 To 1,000, Deduct</i>	-0.65	
			<i>For >1,000, Deduct</i>	-0.88	
			<i>For Galvanized Steel, Add</i>	0.90	
			<i>For 304 Stainless Steel, Add</i>	4.13	
			<i>For High Strength Steel (HSS), Add</i>	1.07	
05 12 23 00-0418	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.38	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.51	
			<i>For >500 To 1,000, Deduct</i>	-0.78	
			<i>For >1,000, Deduct</i>	-1.06	
			<i>For Galvanized Steel, Add</i>	1.08	
			<i>For 304 Stainless Steel, Add</i>	4.96	
			<i>For High Strength Steel (HSS), Add</i>	1.28	
05 12 23 00-0419	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	8.67	4.73
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.69	
			<i>For >500 To 1,000, Deduct</i>	-1.06	
			<i>For >1,000, Deduct</i>	-1.44	
			<i>For Galvanized Steel, Add</i>	1.47	
			<i>For 304 Stainless Steel, Add</i>	6.75	
			<i>For High Strength Steel (HSS), Add</i>	1.73	
05 12 23 00-0420			3/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0421	LF		1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.21	3.07
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.24	
05 12 23 00-0422	LF		1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.21	3.07
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.72	
			<i>For >1,000, Deduct</i>	-0.98	
			<i>For Galvanized Steel, Add</i>	1.31	
			<i>For 304 Stainless Steel, Add</i>	6.04	
			<i>For High Strength Steel (HSS), Add</i>	1.24	
05 12 23 00-0423	LF		1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	6.96	3.29
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.79	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For Galvanized Steel, Add</i>	1.60	
			<i>For 304 Stainless Steel, Add</i>	7.35	
			<i>For High Strength Steel (HSS), Add</i>	1.39	
05 12 23 00-0424	LF		2" x 2" x 3/16" Thick, Plain Steel Angle Iron.....	8.21	3.53
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.88	
			<i>For >1,000, Deduct</i>	-1.20	
			<i>For Galvanized Steel, Add</i>	2.17	
			<i>For 304 Stainless Steel, Add</i>	9.98	
			<i>For High Strength Steel (HSS), Add</i>	1.64	
05 12 23 00-0425	LF		2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.99	3.78
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-0.95	
			<i>For >1,000, Deduct</i>	-1.30	
			<i>For Galvanized Steel, Add</i>	2.45	
			<i>For 304 Stainless Steel, Add</i>	11.26	
			<i>For High Strength Steel (HSS), Add</i>	1.80	
05 12 23 00-0426	LF		2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	9.81	4.05
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.03	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For Galvanized Steel, Add</i>	2.74	
			<i>For 304 Stainless Steel, Add</i>	12.60	
			<i>For High Strength Steel (HSS), Add</i>	1.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0427 LF 3" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.79	4.05
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.03	
For >1,000, Deduct	-1.41	
For Galvanized Steel, Add	2.73	
For 304 Stainless Steel, Add	12.54	
For High Strength Steel (HSS), Add	1.96	
05 12 23 00-0428 LF 3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.82	4.46
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.72	
For >500 To 1,000, Deduct	-1.14	
For >1,000, Deduct	-1.56	
For Galvanized Steel, Add	3.01	
For 304 Stainless Steel, Add	13.85	
For High Strength Steel (HSS), Add	2.16	
05 12 23 00-0429 LF 3" x 3" x 3/16" Thick, Plain Steel Angle Iron	11.84	4.89
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.79	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.70	
For Galvanized Steel, Add	3.30	
For 304 Stainless Steel, Add	15.16	
For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0430 1/4" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0431 LF 1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.05	3.24
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.79	
For >1,000, Deduct	-1.07	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.75	
For High Strength Steel (HSS), Add	1.41	
05 12 23 00-0432 LF 1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	7.95	3.47
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.18	
For Galvanized Steel, Add	2.06	
For 304 Stainless Steel, Add	9.46	
For High Strength Steel (HSS), Add	1.59	
05 12 23 00-0433 LF 2" x 2" x 1/4" Thick, Plain Steel Angle Iron	9.51	3.70
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.61	
For >500 To 1,000, Deduct	-0.97	
For >1,000, Deduct	-1.33	
For Galvanized Steel, Add	2.83	
For 304 Stainless Steel, Add	13.02	
For High Strength Steel (HSS), Add	1.90	
05 12 23 00-0434 LF 2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	10.66	4.10
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.08	
For >1,000, Deduct	-1.48	
For Galvanized Steel, Add	3.22	
For 304 Stainless Steel, Add	14.79	
For High Strength Steel (HSS), Add	2.13	
05 12 23 00-0435 LF 2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	11.87	4.49
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.19	
For >1,000, Deduct	-1.64	
For Galvanized Steel, Add	3.64	
For 304 Stainless Steel, Add	16.73	
For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0436 LF 3" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.87	4.49
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.75	
For >500 To 1,000, Deduct	-1.19	
For >1,000, Deduct	-1.64	
For Galvanized Steel, Add	3.64	
For 304 Stainless Steel, Add	16.73	
For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0437 LF 3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	13.11	4.99
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.83	
For >500 To 1,000, Deduct	-1.32	
For >1,000, Deduct	-1.81	
For Galvanized Steel, Add	4.01	
For 304 Stainless Steel, Add	18.41	
For High Strength Steel (HSS), Add	2.62	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0438	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.33	5.48
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.45	
			<i>For >1,000, Deduct</i>	-1.99	
			<i>For Galvanized Steel, Add</i>	4.35	
			<i>For 304 Stainless Steel, Add</i>	19.98	
			<i>For High Strength Steel (HSS), Add</i>	2.87	
05 12 23 00-0439	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	15.59	5.90
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-0.98	
			<i>For >500 To 1,000, Deduct</i>	-1.57	
			<i>For >1,000, Deduct</i>	-2.15	
			<i>For Galvanized Steel, Add</i>	4.79	
			<i>For 304 Stainless Steel, Add</i>	22.03	
			<i>For High Strength Steel (HSS), Add</i>	3.12	
05 12 23 00-0440	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	16.53	0.61
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.65	
			<i>For >1,000, Deduct</i>	-2.27	
			<i>For Galvanized Steel, Add</i>	5.16	
			<i>For 304 Stainless Steel, Add</i>	23.71	
			<i>For High Strength Steel (HSS), Add</i>	3.31	
05 12 23 00-0441	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	16.53	6.16
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.03	
			<i>For >500 To 1,000, Deduct</i>	-1.65	
			<i>For >1,000, Deduct</i>	-2.27	
			<i>For Galvanized Steel, Add</i>	5.16	
			<i>For 304 Stainless Steel, Add</i>	23.71	
			<i>For High Strength Steel (HSS), Add</i>	3.31	
05 12 23 00-0442	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.43	6.42
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.73	
			<i>For >1,000, Deduct</i>	-2.38	
			<i>For Galvanized Steel, Add</i>	5.50	
			<i>For 304 Stainless Steel, Add</i>	25.28	
			<i>For High Strength Steel (HSS), Add</i>	3.49	
05 12 23 00-0443	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	18.39	6.69
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.81	
			<i>For >1,000, Deduct</i>	-2.49	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.68	
05 12 23 00-0444	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	18.39	6.69
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.81	
			<i>For >1,000, Deduct</i>	-2.49	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.68	
05 12 23 00-0445	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	19.42	7.05
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.91	
			<i>For >1,000, Deduct</i>	-2.63	
			<i>For Galvanized Steel, Add</i>	6.21	
			<i>For 304 Stainless Steel, Add</i>	28.56	
			<i>For High Strength Steel (HSS), Add</i>	3.88	
05 12 23 00-0446			5/16" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0447	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	12.81	4.77
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500 To 1,000, Deduct</i>	-1.28	
			<i>For >1,000, Deduct</i>	-1.75	
			<i>For Galvanized Steel, Add</i>	4.01	
			<i>For 304 Stainless Steel, Add</i>	18.41	
			<i>For High Strength Steel (HSS), Add</i>	2.56	
05 12 23 00-0448	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	13.91	5.05
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.89	
			<i>For Galvanized Steel, Add</i>	4.45	
			<i>For 304 Stainless Steel, Add</i>	20.43	
			<i>For High Strength Steel (HSS), Add</i>	2.78	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0449	LF	3"	2" x 5/16" Thick, Plain Steel Angle Iron	13.91	5.05
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.89	
			<i>For Galvanized Steel, Add</i>	4.45	
			<i>For 304 Stainless Steel, Add</i>	20.43	
			<i>For High Strength Steel (HSS), Add</i>	2.78	
05 12 23 00-0450	LF	3"	2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.42	5.54
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.51	
			<i>For >1,000, Deduct</i>	-2.08	
			<i>For Galvanized Steel, Add</i>	4.98	
			<i>For 304 Stainless Steel, Add</i>	22.89	
			<i>For High Strength Steel (HSS), Add</i>	3.08	
05 12 23 00-0451	LF	3"	3" x 5/16" Thick, Plain Steel Angle Iron	16.78	6.03
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000, Deduct</i>	-2.26	
			<i>For Galvanized Steel, Add</i>	5.43	
			<i>For 304 Stainless Steel, Add</i>	24.94	
			<i>For High Strength Steel (HSS), Add</i>	3.36	
05 12 23 00-0452	LF	3-1/2"	3" x 5/16" Thick, Plain Steel Angle Iron	17.90	6.33
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.74	
			<i>For >1,000, Deduct</i>	-2.40	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.58	
05 12 23 00-0453	LF	3-1/2"	3-1/2" x 5/16" Thick, Plain Steel Angle Iron	19.15	6.64
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.84	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.83	
05 12 23 00-0454	LF	4"	3" x 5/16" Thick, Plain Steel Angle Iron	19.15	6.64
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.84	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.83	
05 12 23 00-0455	LF	4"	3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.38	7.02
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.21	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For Galvanized Steel, Add</i>	6.83	
			<i>For 304 Stainless Steel, Add</i>	31.41	
			<i>For High Strength Steel (HSS), Add</i>	4.08	
05 12 23 00-0456	LF	4"	4" x 5/16" Thick, Plain Steel Angle Iron	21.54	7.34
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.06	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.31	
05 12 23 00-0457	LF	5"	3" x 5/16" Thick, Plain Steel Angle Iron	21.54	7.34
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.06	
			<i>For >1,000, Deduct</i>	-2.84	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
			<i>For High Strength Steel (HSS), Add</i>	4.31	
05 12 23 00-0458	LF	5"	3-1/2" x 5/16" Thick, Plain Steel Angle Iron	22.64	7.64
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.33	
			<i>For >500 To 1,000, Deduct</i>	-2.15	
			<i>For >1,000, Deduct</i>	-2.97	
			<i>For Galvanized Steel, Add</i>	7.72	
			<i>For 304 Stainless Steel, Add</i>	35.48	
			<i>For High Strength Steel (HSS), Add</i>	4.53	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0459	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	25.39	7.96
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.43	
			<i>For >500 To 1,000, Deduct</i>	-2.33	
			<i>For >1,000, Deduct</i>	-3.23	
			<i>For Galvanized Steel, Add</i>	9.16	
			<i>For 304 Stainless Steel, Add</i>	42.12	
			<i>For High Strength Steel (HSS), Add</i>	5.08	
05 12 23 00-0460	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	25.08	8.29
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.46	
			<i>For >500 To 1,000, Deduct</i>	-2.36	
			<i>For >1,000, Deduct</i>	-3.26	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	5.02	
05 12 23 00-0461			3/8" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0462	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	15.49	5.29
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.48	
			<i>For >1,000, Deduct</i>	-2.04	
			<i>For Galvanized Steel, Add</i>	5.23	
			<i>For 304 Stainless Steel, Add</i>	24.05	
			<i>For High Strength Steel (HSS), Add</i>	3.10	
05 12 23 00-0463	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	17.11	5.72
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.62	
			<i>For >1,000, Deduct</i>	-2.24	
			<i>For Galvanized Steel, Add</i>	5.87	
			<i>For 304 Stainless Steel, Add</i>	26.99	
			<i>For High Strength Steel (HSS), Add</i>	3.42	
05 12 23 00-0464	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	18.52	6.17
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.75	
			<i>For >1,000, Deduct</i>	-2.42	
			<i>For Galvanized Steel, Add</i>	6.39	
			<i>For 304 Stainless Steel, Add</i>	29.36	
			<i>For High Strength Steel (HSS), Add</i>	3.70	
05 12 23 00-0465	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	19.78	6.34
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.13	
			<i>For >500 To 1,000, Deduct</i>	-1.83	
			<i>For >1,000, Deduct</i>	-2.54	
			<i>For Galvanized Steel, Add</i>	7.02	
			<i>For 304 Stainless Steel, Add</i>	32.29	
			<i>For High Strength Steel (HSS), Add</i>	3.96	
05 12 23 00-0466	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	21.08	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
			<i>For High Strength Steel (HSS), Add</i>	4.22	
05 12 23 00-0467	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	21.08	6.68
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.70	
			<i>For Galvanized Steel, Add</i>	7.54	
			<i>For 304 Stainless Steel, Add</i>	34.66	
			<i>For High Strength Steel (HSS), Add</i>	4.22	
05 12 23 00-0468	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.73	7.29
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.11	
			<i>For >1,000, Deduct</i>	-2.92	
			<i>For Galvanized Steel, Add</i>	8.07	
			<i>For 304 Stainless Steel, Add</i>	37.11	
			<i>For High Strength Steel (HSS), Add</i>	4.55	
05 12 23 00-0469	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	24.02	7.50
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.35	
			<i>For >500 To 1,000, Deduct</i>	-2.20	
			<i>For >1,000, Deduct</i>	-3.05	
			<i>For Galvanized Steel, Add</i>	8.69	
			<i>For 304 Stainless Steel, Add</i>	39.96	
			<i>For High Strength Steel (HSS), Add</i>	4.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0470 LF 5" x 3" x 3/8" Thick, Plain Steel Angle Iron	24.41	7.79
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.39	
For >500 To 1,000, Deduct	-2.26	
For >1,000, Deduct	-3.13	
For Galvanized Steel, Add	8.69	
For 304 Stainless Steel, Add	39.96	
For High Strength Steel (HSS), Add	4.88	
05 12 23 00-0471 LF 5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	26.09	8.40
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.36	
For Galvanized Steel, Add	9.23	
For 304 Stainless Steel, Add	42.41	
For High Strength Steel (HSS), Add	5.22	
05 12 23 00-0472 LF 5" x 5" x 3/8" Thick, Plain Steel Angle Iron	30.70	9.79
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.93	
For Galvanized Steel, Add	10.94	
For 304 Stainless Steel, Add	50.30	
For High Strength Steel (HSS), Add	6.14	
05 12 23 00-0473 LF 6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.87	9.10
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.63	
For >500 To 1,000, Deduct	-2.66	
For >1,000, Deduct	-3.68	
For Galvanized Steel, Add	10.38	
For 304 Stainless Steel, Add	47.71	
For High Strength Steel (HSS), Add	5.77	
05 12 23 00-0474 LF 6" x 4" x 3/8" Thick, Plain Steel Angle Iron	30.70	9.79
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.75	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.93	
For Galvanized Steel, Add	10.94	
For 304 Stainless Steel, Add	50.30	
For High Strength Steel (HSS), Add	6.14	
05 12 23 00-0475 LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron	37.04	11.75
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.10	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.74	
For Galvanized Steel, Add	13.26	
For 304 Stainless Steel, Add	60.93	
For High Strength Steel (HSS), Add	7.41	
05 12 23 00-0476 LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron	33.87	10.77
For >100 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-1.92	
For >500 To 1,000, Deduct	-3.13	
For >1,000, Deduct	-4.34	
For Galvanized Steel, Add	12.10	
For 304 Stainless Steel, Add	55.60	
For High Strength Steel (HSS), Add	6.77	
05 12 23 00-0477 1/2" Thick <small>(05 12 23 00-0409)</small>		
05 12 23 00-0478 LF 3" x 3" x 1/2" Thick, Plain Steel Angle Iron	21.89	6.31
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.18	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.69	
For Galvanized Steel, Add	8.36	
For 304 Stainless Steel, Add	38.45	
For High Strength Steel (HSS), Add	4.38	
05 12 23 00-0479 LF 4" x 3" x 1/2" Thick, Plain Steel Angle Iron	25.85	7.45
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.39	
For >500 To 1,000, Deduct	-2.29	
For >1,000, Deduct	-3.18	
For Galvanized Steel, Add	9.87	
For 304 Stainless Steel, Add	45.37	
For High Strength Steel (HSS), Add	5.17	
05 12 23 00-0480 LF 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	27.71	7.98
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-2.45	
For >1,000, Deduct	-3.41	
For Galvanized Steel, Add	10.58	
For 304 Stainless Steel, Add	48.65	
For High Strength Steel (HSS), Add	5.54	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0481	LF		4" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	29.81	8.59
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.60	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.67	
			<i>For Galvanized Steel, Add</i>	11.38	
			<i>For 304 Stainless Steel, Add</i>	52.33	
			<i>For High Strength Steel (HSS), Add</i>	5.96	
05 12 23 00-0482	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	29.81	8.59
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.60	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.67	
			<i>For Galvanized Steel, Add</i>	11.38	
			<i>For 304 Stainless Steel, Add</i>	52.33	
			<i>For High Strength Steel (HSS), Add</i>	5.96	
05 12 23 00-0483	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	31.66	9.12
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.70	
			<i>For >500 To 1,000, Deduct</i>	-2.80	
			<i>For >1,000, Deduct</i>	-3.89	
			<i>For Galvanized Steel, Add</i>	12.10	
			<i>For 304 Stainless Steel, Add</i>	55.60	
			<i>For High Strength Steel (HSS), Add</i>	6.33	
05 12 23 00-0484	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	37.72	10.86
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.54	
05 12 23 00-0485	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	37.72	10.86
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For Galvanized Steel, Add</i>	14.41	
			<i>For 304 Stainless Steel, Add</i>	66.23	
			<i>For High Strength Steel (HSS), Add</i>	7.54	
05 12 23 00-0486	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	45.63	13.14
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.61	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For 304 Stainless Steel, Add</i>	80.11	
			<i>For High Strength Steel (HSS), Add</i>	9.13	
05 12 23 00-0487	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	41.67	12.00
			<i>For >100 To 250, Deduct</i>	-1.20	
			<i>For >250 To 500, Deduct</i>	-2.24	
			<i>For >500 To 1,000, Deduct</i>	-3.68	
			<i>For >1,000, Deduct</i>	-5.13	
			<i>For Galvanized Steel, Add</i>	15.92	
			<i>For 304 Stainless Steel, Add</i>	73.16	
			<i>For High Strength Steel (HSS), Add</i>	8.33	
05 12 23 00-0488	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	45.63	13.14
			<i>For >100 To 250, Deduct</i>	-1.31	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.03	
			<i>For >1,000, Deduct</i>	-5.61	
			<i>For Galvanized Steel, Add</i>	17.43	
			<i>For 304 Stainless Steel, Add</i>	80.11	
			<i>For High Strength Steel (HSS), Add</i>	9.13	
05 12 23 00-0489	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	53.57	15.43
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-2.88	
			<i>For >500 To 1,000, Deduct</i>	-4.74	
			<i>For >1,000, Deduct</i>	-6.59	
			<i>For Galvanized Steel, Add</i>	20.46	
			<i>For 304 Stainless Steel, Add</i>	94.05	
			<i>For High Strength Steel (HSS), Add</i>	10.71	
05 12 23 00-0490	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	61.47	17.71
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-3.31	
			<i>For >500 To 1,000, Deduct</i>	-5.43	
			<i>For >1,000, Deduct</i>	-7.56	
			<i>For Galvanized Steel, Add</i>	23.48	
			<i>For 304 Stainless Steel, Add</i>	107.93	
			<i>For High Strength Steel (HSS), Add</i>	12.29	

05 12 23 00-0491 5/8" Thick (05 12 23 00-0409)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 12 23 00-0492	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	35.64 -0.98 -1.88 -3.09 -4.31 13.96 7.13	9.84
	05 12 23 00-0493	LF		5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	38.15 -1.05 -2.01 -3.31 -4.62 14.95 7.63	10.53
	05 12 23 00-0494	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	45.40 -1.25 -2.39 -3.94 -5.49 17.79 9.08	12.54
	05 12 23 00-0495	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	45.40 -1.25 -2.39 -3.94 -5.49 17.79 9.08	12.54
	05 12 23 00-0496	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	54.95 -1.52 -2.89 -4.77 -6.65 21.53 10.99	15.17
	05 12 23 00-0497	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	50.17 -1.39 -2.64 -4.36 -6.07 19.65 10.03	13.85
	05 12 23 00-0498	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	64.69 -1.79 -3.40 -5.62 -7.83 25.35 12.94	17.86
	05 12 23 00-0499	LF		8" x 8" x 5/8" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	74.24 -2.05 -3.91 -6.44 -8.98 29.09 14.85	20.50
	05 12 23 00-0500			3/4" Thick <small>(05 12 23 00-0499)</small>		
	05 12 23 00-0501	LF		4" x 4" x 3/4" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	41.05 -1.09 -2.11 -3.50 -4.89 16.46 8.21	10.87
	05 12 23 00-0502	LF		5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	43.91 -1.16 -2.26 -3.75 -5.23 17.61 8.78	11.64
	05 12 23 00-0503	LF		5" x 5" x 3/4" Thick, Plain Steel Angle Iron <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Galvanized Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	52.35 -1.39 -2.70 -4.47 -6.24 20.99 10.47	13.87

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0504 LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	52.35	13.87
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-2.70	
For >500 To 1,000, Deduct	-4.47	
For >1,000, Deduct	-6.24	
For Galvanized Steel, Add	20.99	
For High Strength Steel (HSS), Add	10.47	
05 12 23 00-0505 LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	63.66	16.86
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-3.28	
For >500 To 1,000, Deduct	-5.43	
For >1,000, Deduct	-7.59	
For Galvanized Steel, Add	25.53	
For High Strength Steel (HSS), Add	12.73	
05 12 23 00-0506 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	58.11	15.40
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-2.99	
For >500 To 1,000, Deduct	-4.96	
For >1,000, Deduct	-6.92	
For Galvanized Steel, Add	23.30	
For High Strength Steel (HSS), Add	11.62	
05 12 23 00-0507 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	63.66	16.86
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-3.28	
For >500 To 1,000, Deduct	-5.43	
For >1,000, Deduct	-7.59	
For Galvanized Steel, Add	25.53	
For High Strength Steel (HSS), Add	12.73	
05 12 23 00-0508 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	74.98	19.85
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-3.86	
For >500 To 1,000, Deduct	-6.40	
For >1,000, Deduct	-8.93	
For Galvanized Steel, Add	30.07	
For High Strength Steel (HSS), Add	15.00	
05 12 23 00-0509 LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	86.28	22.86
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-4.44	
For >500 To 1,000, Deduct	-7.36	
For >1,000, Deduct	-10.28	
For Galvanized Steel, Add	34.60	
For High Strength Steel (HSS), Add	17.26	
05 12 23 00-0510 7/8" Thick (05 12 23 00-0409)		
05 12 23 00-0511 LF 5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	58.89	14.91
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-2.96	
For >500 To 1,000, Deduct	-4.93	
For >1,000, Deduct	-6.90	
For Galvanized Steel, Add	24.19	
For High Strength Steel (HSS), Add	11.78	
05 12 23 00-0512 LF 6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	58.89	14.91
For >100 To 250, Deduct	-1.49	
For >250 To 500, Deduct	-2.96	
For >500 To 1,000, Deduct	-4.93	
For >1,000, Deduct	-6.90	
For Galvanized Steel, Add	24.19	
For High Strength Steel (HSS), Add	11.78	
05 12 23 00-0513 LF 6" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	71.70	18.15
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.61	
For >500 To 1,000, Deduct	-6.01	
For >1,000, Deduct	-8.40	
For Galvanized Steel, Add	29.44	
For High Strength Steel (HSS), Add	14.34	
05 12 23 00-0514 LF 8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	84.69	21.44
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-4.26	
For >500 To 1,000, Deduct	-7.09	
For >1,000, Deduct	-9.93	
For Galvanized Steel, Add	34.78	
For High Strength Steel (HSS), Add	16.94	
05 12 23 00-0515 LF 8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	97.45	24.68
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-4.90	
For >500 To 1,000, Deduct	-8.16	
For >1,000, Deduct	-11.42	
For Galvanized Steel, Add	40.02	
For High Strength Steel (HSS), Add	19.49	
05 12 23 00-0516 Bar Channel (05 12 23 00-0408)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0517 LF 1" x 1/2" x 1/8" Thick Bar Channel.....	4.85	
For 316 Stainless Steel, Add	4.99	
For Aluminum, Add	0.28	
For Galvanized Steel, Add	0.97	
For 304 Stainless Steel, Add	4.45	
For High Strength Steel (HSS), Add	0.97	
05 12 23 00-0518 LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.46	
For 316 Stainless Steel, Add	5.98	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.16	
For 304 Stainless Steel, Add	5.33	
For High Strength Steel (HSS), Add	1.09	
05 12 23 00-0519 LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	5.95	
For 316 Stainless Steel, Add	6.62	
For Aluminum, Add	0.37	
For Galvanized Steel, Add	1.28	
For 304 Stainless Steel, Add	5.90	
For High Strength Steel (HSS), Add	1.19	
05 12 23 00-0520 LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	6.80	
For 316 Stainless Steel, Add	6.91	
For Aluminum, Add	0.39	
For Galvanized Steel, Add	1.34	
For 304 Stainless Steel, Add	6.16	
For High Strength Steel (HSS), Add	1.36	
05 12 23 00-0521 LF 2" x 1/2" x 1/8" Thick Bar Channel.....	7.28	
For 316 Stainless Steel, Add	8.45	
For Aluminum, Add	0.48	
For Galvanized Steel, Add	1.64	
For 304 Stainless Steel, Add	7.52	
05 12 23 00-0522 LF 2" x 1" x 1/8" Thick Bar Channel.....	9.57	
For 316 Stainless Steel, Add	9.44	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.83	
For 304 Stainless Steel, Add	8.41	
05 12 23 00-0523 Channels - C <small>(05 12 23 00-0408)</small>		
05 12 23 00-0524 LF C2 x 1.78 - 2" Wide Channel.....	7.96	4.09
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.61	
For >500 To 1,000, Deduct	-0.94	
For >1,000, Deduct	-1.28	
For 316 Stainless Steel, Add	8.03	
For Aluminum, Add	0.45	
For Galvanized Steel, Add	1.56	
For 304 Stainless Steel, Add	7.15	
05 12 23 00-0525 LF C3 x 4.1 - 3" Wide Channel.....	13.71	5.88
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.47	
For >1,000, Deduct	-2.01	
For 316 Stainless Steel, Add	18.82	
For Aluminum, Add	1.06	
For Galvanized Steel, Add	3.65	
For 304 Stainless Steel, Add	16.76	
05 12 23 00-0526 LF C3 x 5 - 3" Wide Channel.....	16.72	7.17
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.79	
For >1,000, Deduct	-2.45	
For 316 Stainless Steel, Add	22.94	
For Aluminum, Add	1.29	
For Galvanized Steel, Add	4.45	
For 304 Stainless Steel, Add	20.43	
05 12 23 00-0527 LF C3 x 6 - 3" Wide Channel.....	20.08	8.60
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.36	
For >500 To 1,000, Deduct	-2.15	
For >1,000, Deduct	-2.94	
For 316 Stainless Steel, Add	27.55	
For Aluminum, Add	1.55	
For Galvanized Steel, Add	5.34	
For 304 Stainless Steel, Add	24.54	
05 12 23 00-0528 LF C4 x 5.4 - 4" Wide Channel.....	17.15	7.05
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.80	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	24.80	
For Aluminum, Add	1.40	
For Galvanized Steel, Add	4.81	
For 304 Stainless Steel, Add	22.09	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0529	LF		C4 x 7.25 - 4" Wide Channel.....	23.02	9.46
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500 To 1,000, Deduct</i>	-2.41	
			<i>For >1,000, Deduct</i>	-3.30	
			<i>For 316 Stainless Steel, Add</i>	33.28	
			<i>For Aluminum, Add</i>	1.87	
			<i>For Galvanized Steel, Add</i>	6.45	
			<i>For 304 Stainless Steel, Add</i>	29.64	
05 12 23 00-0530	LF		C5 x 6.7 - 5" Wide Channel.....	20.57	8.22
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.34	
			<i>For >500 To 1,000, Deduct</i>	-2.12	
			<i>For >1,000, Deduct</i>	-2.91	
			<i>For 316 Stainless Steel, Add</i>	30.75	
			<i>For Aluminum, Add</i>	1.73	
			<i>For Galvanized Steel, Add</i>	5.96	
			<i>For 304 Stainless Steel, Add</i>	27.39	
05 12 23 00-0531	LF		C5 x 9 - 5" Wide Channel.....	27.63	11.05
			<i>For >100 To 250, Deduct</i>	-1.10	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.85	
			<i>For >1,000, Deduct</i>	-3.91	
			<i>For 316 Stainless Steel, Add</i>	41.31	
			<i>For Aluminum, Add</i>	2.32	
			<i>For Galvanized Steel, Add</i>	8.00	
			<i>For 304 Stainless Steel, Add</i>	36.79	
05 12 23 00-0532	LF		C6 x 8.2 - 6" Wide Channel.....	24.92	9.87
			<i>For >100 To 250, Deduct</i>	-0.99	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.51	
			<i>For 316 Stainless Steel, Add</i>	37.63	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.29	
			<i>For 304 Stainless Steel, Add</i>	33.52	
05 12 23 00-0533	LF		C6 x 10.5 - 6" Wide Channel.....	31.91	12.64
			<i>For >100 To 250, Deduct</i>	-1.26	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.28	
			<i>For >1,000, Deduct</i>	-4.50	
			<i>For 316 Stainless Steel, Add</i>	48.19	
			<i>For Aluminum, Add</i>	2.71	
			<i>For Galvanized Steel, Add</i>	9.34	
			<i>For 304 Stainless Steel, Add</i>	42.92	
05 12 23 00-0534	LF		C6 x 13 - 6" Wide Channel.....	39.52	15.65
			<i>For >100 To 250, Deduct</i>	-1.57	
			<i>For >250 To 500, Deduct</i>	-2.55	
			<i>For >500 To 1,000, Deduct</i>	-4.06	
			<i>For >1,000, Deduct</i>	-5.57	
			<i>For 316 Stainless Steel, Add</i>	59.68	
			<i>For Aluminum, Add</i>	3.36	
			<i>For Galvanized Steel, Add</i>	11.56	
			<i>For 304 Stainless Steel, Add</i>	53.15	
05 12 23 00-0535	LF		C7 x 9.8 - 7" Wide Channel.....	29.73	11.75
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-1.92	
			<i>For >500 To 1,000, Deduct</i>	-3.05	
			<i>For >1,000, Deduct</i>	-4.19	
			<i>For 316 Stainless Steel, Add</i>	44.99	
			<i>For Aluminum, Add</i>	2.53	
			<i>For Galvanized Steel, Add</i>	8.72	
			<i>For 304 Stainless Steel, Add</i>	40.07	
05 12 23 00-0536	LF		C7 x 12.25 - 7" Wide Channel.....	37.15	14.68
			<i>For >100 To 250, Deduct</i>	-1.47	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.23	
			<i>For 316 Stainless Steel, Add</i>	56.22	
			<i>For Aluminum, Add</i>	3.16	
			<i>For Galvanized Steel, Add</i>	10.89	
			<i>For 304 Stainless Steel, Add</i>	50.07	
05 12 23 00-0537	LF		C7 x 14.75 - 7" Wide Channel.....	44.74	17.69
			<i>For >100 To 250, Deduct</i>	-1.77	
			<i>For >250 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-4.60	
			<i>For >1,000, Deduct</i>	-6.30	
			<i>For 316 Stainless Steel, Add</i>	67.71	
			<i>For Aluminum, Add</i>	3.81	
			<i>For Galvanized Steel, Add</i>	13.12	
			<i>For 304 Stainless Steel, Add</i>	60.31	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0538	LF		C8 x 11.5 - 8" Wide Channel	33.74	12.93
			For >100 To 250, Deduct	-1.29	
			For >250 To 500, Deduct	-2.14	
			For >500 To 1,000, Deduct	-3.41	
			For >1,000, Deduct	-4.69	
			For 316 Stainless Steel, Add	52.80	
			For Aluminum, Add	2.97	
			For Galvanized Steel, Add	10.23	
			For 304 Stainless Steel, Add	47.03	
05 12 23 00-0539	LF		C8 x 13.75 - 8" Wide Channel	40.33	15.46
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.55	
			For >500 To 1,000, Deduct	-4.08	
			For >1,000, Deduct	-5.60	
			For 316 Stainless Steel, Add	63.10	
			For Aluminum, Add	3.55	
			For Galvanized Steel, Add	12.23	
			For 304 Stainless Steel, Add	56.20	
05 12 23 00-0540	LF		C8 x 18.75 - 8" Wide Channel	54.99	21.08
			For >100 To 250, Deduct	-2.11	
			For >250 To 500, Deduct	-3.48	
			For >500 To 1,000, Deduct	-5.56	
			For >1,000, Deduct	-7.64	
			For 316 Stainless Steel, Add	86.05	
			For Aluminum, Add	4.84	
			For Galvanized Steel, Add	16.67	
			For 304 Stainless Steel, Add	76.64	
05 12 23 00-0541	LF		C9 x 13.4 - 9" Wide Channel	39.30	15.07
			For >100 To 250, Deduct	-1.51	
			For >250 To 500, Deduct	-2.49	
			For >500 To 1,000, Deduct	-3.97	
			For >1,000, Deduct	-5.46	
			For 316 Stainless Steel, Add	61.50	
			For Aluminum, Add	3.46	
			For Galvanized Steel, Add	11.92	
			For 304 Stainless Steel, Add	54.78	
05 12 23 00-0542	LF		C9 x 15 - 9" Wide Channel	44.00	16.86
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.79	
			For >500 To 1,000, Deduct	-4.45	
			For >1,000, Deduct	-6.11	
			For 316 Stainless Steel, Add	68.86	
			For Aluminum, Add	3.87	
			For Galvanized Steel, Add	13.34	
			For 304 Stainless Steel, Add	61.33	
05 12 23 00-0543	LF		C9 x 20 - 9" Wide Channel	58.67	22.48
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-3.72	
			For >500 To 1,000, Deduct	-5.93	
			For >1,000, Deduct	-8.15	
			For 316 Stainless Steel, Add	91.81	
			For Aluminum, Add	5.16	
			For Galvanized Steel, Add	17.79	
			For 304 Stainless Steel, Add	81.77	
05 12 23 00-0544	LF		C10 x 15.3 - 10" Wide Channel	44.88	17.19
			For >100 To 250, Deduct	-1.72	
			For >250 To 500, Deduct	-2.84	
			For >500 To 1,000, Deduct	-4.54	
			For >1,000, Deduct	-6.23	
			For 316 Stainless Steel, Add	70.24	
			For Aluminum, Add	3.95	
			For Galvanized Steel, Add	13.61	
			For 304 Stainless Steel, Add	62.56	
05 12 23 00-0545	LF		C10 x 20 - 10" Wide Channel	58.67	22.48
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-3.72	
			For >500 To 1,000, Deduct	-5.93	
			For >1,000, Deduct	-8.15	
			For 316 Stainless Steel, Add	91.81	
			For Aluminum, Add	5.16	
			For Galvanized Steel, Add	17.79	
			For 304 Stainless Steel, Add	81.77	
05 12 23 00-0546	LF		C10 x 25 - 10" Wide Channel	73.33	28.10
			For >100 To 250, Deduct	-2.81	
			For >250 To 500, Deduct	-4.64	
			For >500 To 1,000, Deduct	-7.41	
			For >1,000, Deduct	-10.18	
			For 316 Stainless Steel, Add	114.75	
			For Aluminum, Add	6.45	
			For Galvanized Steel, Add	22.23	
			For 304 Stainless Steel, Add	102.20	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0547	LF		C10 x 30 - 10" Wide Channel.....	87.99	33.72
			<i>For >100 To 250, Deduct</i>	-3.37	
			<i>For >250 To 500, Deduct</i>	-5.57	
			<i>For >500 To 1,000, Deduct</i>	-8.90	
			<i>For >1,000, Deduct</i>	-12.22	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0548	LF		C12 x 20.7 - 12" Wide Channel.....	60.71	23.27
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-3.84	
			<i>For >500 To 1,000, Deduct</i>	-6.14	
			<i>For >1,000, Deduct</i>	-8.43	
			<i>For 316 Stainless Steel, Add</i>	95.01	
			<i>For Aluminum, Add</i>	5.34	
			<i>For Galvanized Steel, Add</i>	18.41	
			<i>For 304 Stainless Steel, Add</i>	84.62	
05 12 23 00-0549	LF		C12 x 25 - 12" Wide Channel.....	73.33	28.10
			<i>For >100 To 250, Deduct</i>	-2.81	
			<i>For >250 To 500, Deduct</i>	-4.64	
			<i>For >500 To 1,000, Deduct</i>	-7.41	
			<i>For >1,000, Deduct</i>	-10.18	
			<i>For 316 Stainless Steel, Add</i>	114.75	
			<i>For Aluminum, Add</i>	6.45	
			<i>For Galvanized Steel, Add</i>	22.23	
			<i>For 304 Stainless Steel, Add</i>	102.20	
05 12 23 00-0550	LF		C12 x 30 - 12" Wide Channel.....	87.99	33.72
			<i>For >100 To 250, Deduct</i>	-3.37	
			<i>For >250 To 500, Deduct</i>	-5.57	
			<i>For >500 To 1,000, Deduct</i>	-8.90	
			<i>For >1,000, Deduct</i>	-12.22	
			<i>For 316 Stainless Steel, Add</i>	137.70	
			<i>For Aluminum, Add</i>	7.75	
			<i>For Galvanized Steel, Add</i>	26.68	
			<i>For 304 Stainless Steel, Add</i>	122.64	
05 12 23 00-0551	LF		C15 x 33.9 - 15" Wide Channel.....	99.44	38.10
			<i>For >100 To 250, Deduct</i>	-3.81	
			<i>For >250 To 500, Deduct</i>	-6.30	
			<i>For >500 To 1,000, Deduct</i>	-10.05	
			<i>For >1,000, Deduct</i>	-13.81	
			<i>For 316 Stainless Steel, Add</i>	155.62	
			<i>For Aluminum, Add</i>	8.75	
			<i>For Galvanized Steel, Add</i>	30.15	
			<i>For 304 Stainless Steel, Add</i>	138.60	
05 12 23 00-0552	LF		C15 x 40 - 15" Wide Channel.....	117.32	44.96
			<i>For >100 To 250, Deduct</i>	-4.50	
			<i>For >250 To 500, Deduct</i>	-7.43	
			<i>For >500 To 1,000, Deduct</i>	-11.86	
			<i>For >1,000, Deduct</i>	-16.29	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0553	LF		C15 x 50 - 15" Wide Channel.....	146.66	56.19
			<i>For >100 To 250, Deduct</i>	-5.62	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500 To 1,000, Deduct</i>	-14.83	
			<i>For >1,000, Deduct</i>	-20.37	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0554			Miscellaneous Channels - MC <small>(05 12 23 00-0408)</small>		
05 12 23 00-0555	LF		MC6 x 12 - 6" Wide Channel.....	36.47	14.44
			<i>For >100 To 250, Deduct</i>	-1.44	
			<i>For >250 To 500, Deduct</i>	-2.36	
			<i>For >500 To 1,000, Deduct</i>	-3.75	
			<i>For >1,000, Deduct</i>	-5.14	
			<i>For 316 Stainless Steel, Add</i>	55.07	
			<i>For Aluminum, Add</i>	3.10	
			<i>For Galvanized Steel, Add</i>	10.67	
			<i>For 304 Stainless Steel, Add</i>	49.05	
05 12 23 00-0556	LF		MC6 x 15.1 - 6" Wide Channel.....	45.90	18.18
			<i>For >100 To 250, Deduct</i>	-1.82	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.72	
			<i>For >1,000, Deduct</i>	-6.47	
			<i>For 316 Stainless Steel, Add</i>	69.31	
			<i>For Aluminum, Add</i>	3.90	
			<i>For Galvanized Steel, Add</i>	13.43	
			<i>For 304 Stainless Steel, Add</i>	61.73	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557 LF MC6 x 15.3 - 6" Wide Channel	46.51	18.41
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-4.78	
For >1,000, Deduct	-6.56	
For 316 Stainless Steel, Add	70.24	
For Aluminum, Add	3.95	
For Galvanized Steel, Add	13.61	
For 304 Stainless Steel, Add	62.56	
05 12 23 00-0558 LF MC6 x 16.3 - 6" Wide Channel	49.54	19.62
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-3.20	
For >500 To 1,000, Deduct	-5.09	
For >1,000, Deduct	-6.99	
For 316 Stainless Steel, Add	74.82	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.50	
For 304 Stainless Steel, Add	66.63	
05 12 23 00-0559 LF MC6 x 18 - 6" Wide Channel	54.71	21.67
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-3.53	
For >500 To 1,000, Deduct	-5.62	
For >1,000, Deduct	-7.71	
For 316 Stainless Steel, Add	82.62	
For Aluminum, Add	4.65	
For Galvanized Steel, Add	16.01	
For 304 Stainless Steel, Add	73.59	
05 12 23 00-0560 LF MC7 x 17.6 - 7" Wide Channel	53.39	21.11
For >100 To 250, Deduct	-2.11	
For >250 To 500, Deduct	-3.45	
For >500 To 1,000, Deduct	-5.48	
For >1,000, Deduct	-7.52	
For 316 Stainless Steel, Add	80.80	
For Aluminum, Add	4.55	
For Galvanized Steel, Add	15.66	
For 304 Stainless Steel, Add	71.96	
05 12 23 00-0561 LF MC7 x 19.1 - 7" Wide Channel	57.95	22.91
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-3.74	
For >500 To 1,000, Deduct	-5.95	
For >1,000, Deduct	-8.17	
For 316 Stainless Steel, Add	87.68	
For Aluminum, Add	4.93	
For Galvanized Steel, Add	16.99	
For 304 Stainless Steel, Add	78.09	
05 12 23 00-0562 LF MC7 x 22.7 - 7" Wide Channel	68.86	27.22
For >100 To 250, Deduct	-2.72	
For >250 To 500, Deduct	-4.44	
For >500 To 1,000, Deduct	-7.07	
For >1,000, Deduct	-9.70	
For 316 Stainless Steel, Add	104.19	
For Aluminum, Add	5.86	
For Galvanized Steel, Add	20.19	
For 304 Stainless Steel, Add	92.80	
05 12 23 00-0563 LF MC8 x 8.5 - 8" Wide Channel	24.94	9.55
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.52	
For >1,000, Deduct	-3.46	
For 316 Stainless Steel, Add	39.01	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.56	
For 304 Stainless Steel, Add	34.74	
05 12 23 00-0564 LF MC8 x 18.7 - 8" Wide Channel	54.85	21.01
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-3.47	
For >500 To 1,000, Deduct	-5.55	
For >1,000, Deduct	-7.62	
For 316 Stainless Steel, Add	85.82	
For Aluminum, Add	4.83	
For Galvanized Steel, Add	16.63	
For 304 Stainless Steel, Add	76.44	
05 12 23 00-0565 LF MC8 x 20 - 8" Wide Channel	58.67	22.48
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-3.72	
For >500 To 1,000, Deduct	-5.93	
For >1,000, Deduct	-8.15	
For 316 Stainless Steel, Add	91.81	
For Aluminum, Add	5.16	
For Galvanized Steel, Add	17.79	
For 304 Stainless Steel, Add	81.77	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		MC8 x 21.4 - 8" Wide Channel.....	62.78	24.06
			For >100 To 250, Deduct	-2.41	
			For >250 To 500, Deduct	-3.98	
			For >500 To 1,000, Deduct	-6.35	
			For >1,000, Deduct	-8.72	
			For 316 Stainless Steel, Add	98.24	
			For Aluminum, Add	5.53	
			For Galvanized Steel, Add	19.03	
			For 304 Stainless Steel, Add	87.50	
05 12 23 00-0567	LF		MC8 x 22.8 - 8" Wide Channel.....	66.86	25.64
			For >100 To 250, Deduct	-2.56	
			For >250 To 500, Deduct	-4.23	
			For >500 To 1,000, Deduct	-6.76	
			For >1,000, Deduct	-9.28	
			For 316 Stainless Steel, Add	104.64	
			For Aluminum, Add	5.89	
			For Galvanized Steel, Add	20.27	
			For 304 Stainless Steel, Add	93.20	
05 12 23 00-0568	LF		MC9 x 23.9 - 9" Wide Channel.....	70.10	26.87
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-4.44	
			For >500 To 1,000, Deduct	-7.09	
			For >1,000, Deduct	-9.74	
			For 316 Stainless Steel, Add	109.70	
			For Aluminum, Add	6.17	
			For Galvanized Steel, Add	21.25	
			For 304 Stainless Steel, Add	97.70	
05 12 23 00-0569	LF		MC9 x 25.4 - 9" Wide Channel.....	74.49	28.55
			For >100 To 250, Deduct	-2.85	
			For >250 To 500, Deduct	-4.72	
			For >500 To 1,000, Deduct	-7.53	
			For >1,000, Deduct	-10.34	
			For 316 Stainless Steel, Add	116.58	
			For Aluminum, Add	6.56	
			For Galvanized Steel, Add	22.59	
			For 304 Stainless Steel, Add	103.83	
05 12 23 00-0570	LF		MC10 x 6.5 - 10" Wide Channel.....	19.07	7.31
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.21	
			For >500 To 1,000, Deduct	-1.93	
			For >1,000, Deduct	-2.65	
			For 316 Stainless Steel, Add	29.82	
			For Aluminum, Add	1.68	
			For Galvanized Steel, Add	5.78	
			For 304 Stainless Steel, Add	26.56	
05 12 23 00-0571	LF		MC10 x 8.4 - 10" Wide Channel.....	24.64	9.44
			For >100 To 250, Deduct	-0.94	
			For >250 To 500, Deduct	-1.56	
			For >500 To 1,000, Deduct	-2.49	
			For >1,000, Deduct	-3.42	
			For 316 Stainless Steel, Add	38.56	
			For Aluminum, Add	2.17	
			For Galvanized Steel, Add	7.47	
			For 304 Stainless Steel, Add	34.34	
05 12 23 00-0572	LF		MC10 x 21.9 - 10" Wide Channel.....	64.23	24.62
			For >100 To 250, Deduct	-2.46	
			For >250 To 500, Deduct	-4.07	
			For >500 To 1,000, Deduct	-6.49	
			For >1,000, Deduct	-8.92	
			For 316 Stainless Steel, Add	100.51	
			For Aluminum, Add	5.65	
			For Galvanized Steel, Add	19.47	
			For 304 Stainless Steel, Add	89.52	
05 12 23 00-0573	LF		MC10 x 24.9 - 10" Wide Channel.....	73.04	28.00
			For >100 To 250, Deduct	-2.80	
			For >250 To 500, Deduct	-4.63	
			For >500 To 1,000, Deduct	-7.38	
			For >1,000, Deduct	-10.14	
			For 316 Stainless Steel, Add	114.30	
			For Aluminum, Add	6.43	
			For Galvanized Steel, Add	22.15	
			For 304 Stainless Steel, Add	101.80	
05 12 23 00-0574	LF		MC10 x 25.3 - 10" Wide Channel.....	74.20	28.44
			For >100 To 250, Deduct	-2.84	
			For >250 To 500, Deduct	-4.70	
			For >500 To 1,000, Deduct	-7.50	
			For >1,000, Deduct	-10.30	
			For 316 Stainless Steel, Add	116.13	
			For Aluminum, Add	6.53	
			For Galvanized Steel, Add	22.50	
			For 304 Stainless Steel, Add	103.43	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575 LF MC10 x 28.3 - 10" Wide Channel.....	83.01	31.80
For >100 To 250, Deduct	-3.18	
For >250 To 500, Deduct	-5.26	
For >500 To 1,000, Deduct	-8.39	
For >1,000, Deduct	-11.53	
For 316 Stainless Steel, Add	129.89	
For Aluminum, Add	7.31	
For Galvanized Steel, Add	25.17	
For 304 Stainless Steel, Add	115.68	
05 12 23 00-0576 LF MC10 x 28.5 - 10" Wide Channel.....	83.59	32.04
For >100 To 250, Deduct	-3.20	
For >250 To 500, Deduct	-5.29	
For >500 To 1,000, Deduct	-8.45	
For >1,000, Deduct	-11.61	
For 316 Stainless Steel, Add	130.82	
For Aluminum, Add	7.36	
For Galvanized Steel, Add	25.35	
For 304 Stainless Steel, Add	116.51	
05 12 23 00-0577 LF MC10 x 33.6 - 10" Wide Channel.....	98.56	37.77
For >100 To 250, Deduct	-3.78	
For >250 To 500, Deduct	-6.24	
For >500 To 1,000, Deduct	-9.96	
For >1,000, Deduct	-13.69	
For 316 Stainless Steel, Add	154.24	
For Aluminum, Add	8.68	
For Galvanized Steel, Add	29.88	
For 304 Stainless Steel, Add	137.37	
05 12 23 00-0578 LF MC10 x 41.1 - 10" Wide Channel.....	120.54	46.20
For >100 To 250, Deduct	-4.62	
For >250 To 500, Deduct	-7.63	
For >500 To 1,000, Deduct	-12.19	
For >1,000, Deduct	-16.74	
For 316 Stainless Steel, Add	188.64	
For Aluminum, Add	10.61	
For Galvanized Steel, Add	36.55	
For 304 Stainless Steel, Add	168.01	
05 12 23 00-0579 LF MC12 x 30.9 - 12" Wide Channel.....	90.64	34.73
For >100 To 250, Deduct	-3.47	
For >250 To 500, Deduct	-5.74	
For >500 To 1,000, Deduct	-9.16	
For >1,000, Deduct	-12.59	
For 316 Stainless Steel, Add	141.82	
For Aluminum, Add	7.98	
For Galvanized Steel, Add	27.48	
For 304 Stainless Steel, Add	126.31	
05 12 23 00-0580 LF MC12 x 32.9 - 12" Wide Channel.....	96.50	36.97
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-6.11	
For >500 To 1,000, Deduct	-9.76	
For >1,000, Deduct	-13.40	
For 316 Stainless Steel, Add	151.01	
For Aluminum, Add	8.49	
For Galvanized Steel, Add	29.26	
For 304 Stainless Steel, Add	134.49	
05 12 23 00-0581 LF MC12 x 35 - 12" Wide Channel	102.65	39.33
For >100 To 250, Deduct	-3.93	
For >250 To 500, Deduct	-6.50	
For >500 To 1,000, Deduct	-10.38	
For >1,000, Deduct	-14.26	
For 316 Stainless Steel, Add	160.64	
For Aluminum, Add	9.04	
For Galvanized Steel, Add	31.12	
For 304 Stainless Steel, Add	143.07	
05 12 23 00-0582 LF MC12 x 37 - 12" Wide Channel	108.53	41.59
For >100 To 250, Deduct	-4.16	
For >250 To 500, Deduct	-6.87	
For >500 To 1,000, Deduct	-10.97	
For >1,000, Deduct	-15.07	
For 316 Stainless Steel, Add	169.82	
For Aluminum, Add	9.55	
For Galvanized Steel, Add	32.90	
For 304 Stainless Steel, Add	151.25	
05 12 23 00-0583 LF MC12 x 40 - 12" Wide Channel	117.32	44.96
For >100 To 250, Deduct	-4.50	
For >250 To 500, Deduct	-7.43	
For >500 To 1,000, Deduct	-11.86	
For >1,000, Deduct	-16.29	
For 316 Stainless Steel, Add	183.62	
For Aluminum, Add	10.33	
For Galvanized Steel, Add	35.58	
For 304 Stainless Steel, Add	163.53	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0584	LF		MC12 x 45 - 12" Wide Channel.....	132.00	50.59
			<i>For >100 To 250, Deduct</i>	-5.06	
			<i>For >250 To 500, Deduct</i>	-8.36	
			<i>For >500 To 1,000, Deduct</i>	-13.35	
			<i>For >1,000, Deduct</i>	-18.33	
			<i>For 316 Stainless Steel, Add</i>	206.56	
			<i>For Aluminum, Add</i>	11.62	
			<i>For Galvanized Steel, Add</i>	40.02	
			<i>For 304 Stainless Steel, Add</i>	183.97	
05 12 23 00-0585	LF		MC12 x 50 - 12" Wide Channel.....	146.66	56.20
			<i>For >100 To 250, Deduct</i>	-5.62	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500 To 1,000, Deduct</i>	-14.83	
			<i>For >1,000, Deduct</i>	-20.37	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0586	LF		MC13 x 31.8 - 13" Wide Channel.....	93.28	35.75
			<i>For >100 To 250, Deduct</i>	-3.58	
			<i>For >250 To 500, Deduct</i>	-5.91	
			<i>For >500 To 1,000, Deduct</i>	-9.43	
			<i>For >1,000, Deduct</i>	-12.95	
			<i>For 316 Stainless Steel, Add</i>	145.95	
			<i>For Aluminum, Add</i>	8.21	
			<i>For Galvanized Steel, Add</i>	28.28	
			<i>For 304 Stainless Steel, Add</i>	129.99	
05 12 23 00-0587	LF		MC13 x 35 - 13" Wide Channel.....	102.65	39.33
			<i>For >100 To 250, Deduct</i>	-3.93	
			<i>For >250 To 500, Deduct</i>	-6.50	
			<i>For >500 To 1,000, Deduct</i>	-10.38	
			<i>For >1,000, Deduct</i>	-14.26	
			<i>For 316 Stainless Steel, Add</i>	160.64	
			<i>For Aluminum, Add</i>	9.04	
			<i>For Galvanized Steel, Add</i>	31.12	
			<i>For 304 Stainless Steel, Add</i>	143.07	
05 12 23 00-0588	LF		MC13 x 40 - 13" Wide Channel.....	117.32	44.96
			<i>For >100 To 250, Deduct</i>	-4.50	
			<i>For >250 To 500, Deduct</i>	-7.43	
			<i>For >500 To 1,000, Deduct</i>	-11.86	
			<i>For >1,000, Deduct</i>	-16.29	
			<i>For 316 Stainless Steel, Add</i>	183.62	
			<i>For Aluminum, Add</i>	10.33	
			<i>For Galvanized Steel, Add</i>	35.58	
			<i>For 304 Stainless Steel, Add</i>	163.53	
05 12 23 00-0589	LF		MC13 x 50 - 13" Wide Channel.....	146.66	56.20
			<i>For >100 To 250, Deduct</i>	-5.62	
			<i>For >250 To 500, Deduct</i>	-9.29	
			<i>For >500 To 1,000, Deduct</i>	-14.83	
			<i>For >1,000, Deduct</i>	-20.37	
			<i>For 316 Stainless Steel, Add</i>	229.50	
			<i>For Aluminum, Add</i>	12.91	
			<i>For Galvanized Steel, Add</i>	44.47	
			<i>For 304 Stainless Steel, Add</i>	204.40	
05 12 23 00-0590	LF		MC18 x 42.7 - 18" Wide Channel.....	125.25	48.00
			<i>For >100 To 250, Deduct</i>	-4.80	
			<i>For >250 To 500, Deduct</i>	-7.93	
			<i>For >500 To 1,000, Deduct</i>	-12.66	
			<i>For >1,000, Deduct</i>	-17.39	
			<i>For 316 Stainless Steel, Add</i>	196.00	
			<i>For Aluminum, Add</i>	11.03	
			<i>For Galvanized Steel, Add</i>	37.98	
			<i>For 304 Stainless Steel, Add</i>	174.56	
05 12 23 00-0591	LF		MC18 x 45.8 - 18" Wide Channel.....	134.33	51.49
			<i>For >100 To 250, Deduct</i>	-5.15	
			<i>For >250 To 500, Deduct</i>	-8.51	
			<i>For >500 To 1,000, Deduct</i>	-13.58	
			<i>For >1,000, Deduct</i>	-18.65	
			<i>For 316 Stainless Steel, Add</i>	210.21	
			<i>For Aluminum, Add</i>	11.82	
			<i>For Galvanized Steel, Add</i>	40.73	
			<i>For 304 Stainless Steel, Add</i>	187.22	
05 12 23 00-0592	LF		MC18 x 51.9 - 18" Wide Channel.....	152.23	58.34
			<i>For >100 To 250, Deduct</i>	-5.83	
			<i>For >250 To 500, Deduct</i>	-9.64	
			<i>For >500 To 1,000, Deduct</i>	-15.39	
			<i>For >1,000, Deduct</i>	-21.14	
			<i>For 316 Stainless Steel, Add</i>	238.21	
			<i>For Aluminum, Add</i>	13.40	
			<i>For Galvanized Steel, Add</i>	46.15	
			<i>For 304 Stainless Steel, Add</i>	212.15	



	Metals	05
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0593 LF MC18 x 58 - 18" Wide Channel	170.12	65.19
For >100 To 250, Deduct	-6.52	
For >250 To 500, Deduct	-10.77	
For >500 To 1,000, Deduct	-17.20	
For >1,000, Deduct	-23.63	
For 316 Stainless Steel, Add	266.21	
For Aluminum, Add	14.97	
For Galvanized Steel, Add	51.58	
For 304 Stainless Steel, Add	237.09	
05 12 23 00-0594 Structural Bar Tees <small>(05 12 23 00-0408)</small>		
05 12 23 00-0595 LF 3/4" x 3/4" x 1/8" Structural Bar Tee	5.15	2.99
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.66	
For >1,000, Deduct	-0.89	
For 316 Stainless Steel, Add	3.71	
For Aluminum, Add	0.21	
For Galvanized Steel, Add	0.72	
For 304 Stainless Steel, Add	3.31	
05 12 23 00-0596 LF 1" x 1" x 1/8" Structural Bar Tee	6.29	3.53
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.51	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.06	
For 316 Stainless Steel, Add	5.09	
For Aluminum, Add	0.29	
For Galvanized Steel, Add	0.99	
For 304 Stainless Steel, Add	4.53	
05 12 23 00-0597 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	9.98	4.07
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.04	
For >1,000, Deduct	-1.43	
For 316 Stainless Steel, Add	14.56	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.82	
For 304 Stainless Steel, Add	12.97	
05 12 23 00-0598 LF 2" x 2" x 1/4" Structural Bar Tee	13.87	5.32
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.40	
For >1,000, Deduct	-1.93	
For 316 Stainless Steel, Add	21.66	
For Aluminum, Add	1.22	
For Galvanized Steel, Add	4.20	
For 304 Stainless Steel, Add	19.29	
05 12 23 00-0599 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	20.73	6.42
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.89	
For >1,000, Deduct	-2.63	
For 316 Stainless Steel, Add	38.91	
For Aluminum, Add	2.19	
For Galvanized Steel, Add	7.54	
For 304 Stainless Steel, Add	34.66	
05 12 23 00-0600 LF 3" x 3" x 3/8" Structural Bar Tee	25.56	8.22
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.37	
For >1,000, Deduct	-3.29	
For 316 Stainless Steel, Add	46.72	
For Aluminum, Add	2.63	
For Galvanized Steel, Add	9.05	
For 304 Stainless Steel, Add	41.61	
05 12 23 00-0601 Structural Zees <small>(05 12 23 00-0408)</small>		
05 12 23 00-0602 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	12.21	4.07
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.15	
For >1,000, Deduct	-1.59	
For 316 Stainless Steel, Add	21.70	
For Aluminum, Add	1.22	
For Galvanized Steel, Add	4.20	
For 304 Stainless Steel, Add	19.32	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603	LF		2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	22.70	4.86
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000, Deduct</i>	-2.51	
			<i>For 316 Stainless Steel, Add</i>	51.94	
			<i>For Aluminum, Add</i>	2.92	
			<i>For Galvanized Steel, Add</i>	10.06	
			<i>For 304 Stainless Steel, Add</i>	46.26	
05 12 23 00-0604	LF		3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	27.17	5.48
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-2.09	
			<i>For >1,000, Deduct</i>	-2.95	
			<i>For 316 Stainless Steel, Add</i>	63.55	
			<i>For Aluminum, Add</i>	3.57	
			<i>For Galvanized Steel, Add</i>	12.31	
			<i>For 304 Stainless Steel, Add</i>	56.60	
05 12 23 00-0605	LF		3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	36.44	6.27
			<i>For >100 To 250, Deduct</i>	-0.63	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-2.66	
			<i>For >1,000, Deduct</i>	-3.78	
			<i>For 316 Stainless Steel, Add</i>	89.89	
			<i>For Aluminum, Add</i>	5.06	
			<i>For Galvanized Steel, Add</i>	17.42	
			<i>For 304 Stainless Steel, Add</i>	80.06	
05 12 23 00-0606	LF		3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	47.11	6.81
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.86	
			<i>For >500 To 1,000, Deduct</i>	-3.26	
			<i>For >1,000, Deduct</i>	-4.67	
			<i>For 316 Stainless Steel, Add</i>	121.66	
			<i>For Aluminum, Add</i>	6.84	
			<i>For Galvanized Steel, Add</i>	23.57	
			<i>For 304 Stainless Steel, Add</i>	108.36	
05 12 23 00-0607			Junior I-Beams (05 12 23 00-0408)		
05 12 23 00-0608	LF		3" Junior I-Beam, 2.9 LB/LF.....	16.77	5.88
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.62	
			<i>For >1,000, Deduct</i>	-2.24	
			<i>For 316 Stainless Steel, Add</i>	28.61	
			<i>For Aluminum, Add</i>	1.61	
			<i>For Galvanized Steel, Add</i>	5.54	
			<i>For 304 Stainless Steel, Add</i>	25.48	
05 12 23 00-0609	LF		4" Junior I-Beam, 3.2 LB/LF.....	18.43	6.42
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500 To 1,000, Deduct</i>	-1.78	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For 316 Stainless Steel, Add</i>	31.55	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.11	
			<i>For 304 Stainless Steel, Add</i>	28.10	
05 12 23 00-0610	LF		5" Junior I-Beam, 3.8 LB/LF.....	21.11	7.05
			<i>For >100 To 250, Deduct</i>	-0.71	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-2.00	
			<i>For >1,000, Deduct</i>	-2.76	
			<i>For 316 Stainless Steel, Add</i>	37.47	
			<i>For Aluminum, Add</i>	2.11	
			<i>For Galvanized Steel, Add</i>	7.26	
			<i>For 304 Stainless Steel, Add</i>	33.37	
05 12 23 00-0611	LF		6" Junior I-Beam, 4.4 LB/LF.....	23.80	7.68
			<i>For >100 To 250, Deduct</i>	-0.77	
			<i>For >250 To 500, Deduct</i>	-1.36	
			<i>For >500 To 1,000, Deduct</i>	-2.21	
			<i>For >1,000, Deduct</i>	-3.07	
			<i>For 316 Stainless Steel, Add</i>	43.39	
			<i>For Aluminum, Add</i>	2.44	
			<i>For Galvanized Steel, Add</i>	8.41	
			<i>For 304 Stainless Steel, Add</i>	38.65	
05 12 23 00-0612	LF		7" Junior I-Beam, 5.5 LB/LF.....	27.91	8.22
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.52	
			<i>For >500 To 1,000, Deduct</i>	-2.49	
			<i>For >1,000, Deduct</i>	-3.46	
			<i>For 316 Stainless Steel, Add</i>	54.24	
			<i>For Aluminum, Add</i>	3.05	
			<i>For Galvanized Steel, Add</i>	10.51	
			<i>For 304 Stainless Steel, Add</i>	48.31	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0613 LF 8" Junior I-Beam, 6.5 LB/LF.....	31.73	8.77
For >100 To 250, Deduct	-0.88	
For >250 To 500, Deduct	-1.67	
For >500 To 1,000, Deduct	-2.76	
For >1,000, Deduct	-3.84	
For 316 Stainless Steel, Add	64.10	
For Aluminum, Add	3.61	
For Galvanized Steel, Add	12.42	
For 304 Stainless Steel, Add	57.09	
05 12 23 00-0614 LF 10" Junior I-Beam, 9 LB/LF.....	41.11	10.03
For >100 To 250, Deduct	-1.00	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.39	
For >1,000, Deduct	-4.75	
For 316 Stainless Steel, Add	88.77	
For Aluminum, Add	4.99	
For Galvanized Steel, Add	17.20	
For 304 Stainless Steel, Add	79.06	
05 12 23 00-0615 LF 12" Junior I-Beam, 11.8 LB/LF.....	52.24	11.91
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-5.90	
For 316 Stainless Steel, Add	116.38	
For Aluminum, Add	6.55	
For Galvanized Steel, Add	22.55	
For 304 Stainless Steel, Add	103.65	
05 12 23 00-0616 Round Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0617 LF 1/4" Carbon Steel Rounds, ASTM A108.....	1.93	
For 316 Stainless Steel, Add	2.82	
For Aluminum, Add	0.16	
For Galvanized Steel, Add	0.55	
For 304 Stainless Steel, Add	2.51	
05 12 23 00-0618 LF 3/8" Carbon Steel Rounds, ASTM A108.....	2.92	
For 316 Stainless Steel, Add	5.54	
For Aluminum, Add	0.31	
For Galvanized Steel, Add	1.07	
For 304 Stainless Steel, Add	4.93	
05 12 23 00-0619 LF 1/2" Carbon Steel Rounds, ASTM A108.....	3.94	
For 316 Stainless Steel, Add	8.42	
For Aluminum, Add	0.47	
For Galvanized Steel, Add	1.63	
For 304 Stainless Steel, Add	7.50	
05 12 23 00-0620 LF 5/8" Carbon Steel Rounds, ASTM A108.....	5.83	
For 316 Stainless Steel, Add	14.02	
For Aluminum, Add	0.79	
For Galvanized Steel, Add	2.72	
For 304 Stainless Steel, Add	12.48	
05 12 23 00-0621 LF 3/4" Carbon Steel Rounds, ASTM A108.....	6.95	
For 316 Stainless Steel, Add	16.67	
For Aluminum, Add	0.94	
For Galvanized Steel, Add	3.23	
For 304 Stainless Steel, Add	14.85	
05 12 23 00-0622 LF 7/8" Carbon Steel Rounds, ASTM A108.....	8.09	
For 316 Stainless Steel, Add	19.46	
For Aluminum, Add	1.09	
For Galvanized Steel, Add	3.77	
For 304 Stainless Steel, Add	17.33	
05 12 23 00-0623 LF 1" Carbon Steel Rounds, ASTM A108.....	11.65	
For 316 Stainless Steel, Add	29.66	
For Aluminum, Add	1.67	
For Galvanized Steel, Add	5.75	
For 304 Stainless Steel, Add	26.42	
05 12 23 00-0624 LF 1-1/8" Carbon Steel Rounds, ASTM A108.....	14.17	
For 316 Stainless Steel, Add	36.06	
For Aluminum, Add	2.03	
For Galvanized Steel, Add	6.99	
For 304 Stainless Steel, Add	32.12	
05 12 23 00-0625 LF 1-1/4" Carbon Steel Rounds, ASTM A108.....	16.99	
For 316 Stainless Steel, Add	42.43	
For Aluminum, Add	2.39	
For Galvanized Steel, Add	8.22	
For 304 Stainless Steel, Add	37.79	
05 12 23 00-0626 LF 1-3/8" Carbon Steel Rounds, ASTM A108.....	20.53	
For 316 Stainless Steel, Add	51.78	
For Aluminum, Add	2.91	
For Galvanized Steel, Add	10.03	
For 304 Stainless Steel, Add	46.11	
05 12 23 00-0627 LF 1-1/2" Carbon Steel Rounds, ASTM A108.....	22.97	
For 316 Stainless Steel, Add	56.80	
For Aluminum, Add	3.20	
For Galvanized Steel, Add	11.01	
For 304 Stainless Steel, Add	50.59	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0628 LF 1-5/8" Carbon Steel Rounds, ASTM A108.....	26.65	
For 316 Stainless Steel, Add	64.38	
For Aluminum, Add	3.62	
For Galvanized Steel, Add	12.47	
For 304 Stainless Steel, Add	57.34	
05 12 23 00-0629 LF 1-3/4" Carbon Steel Rounds, ASTM A108.....	32.12	
For 316 Stainless Steel, Add	74.91	
For Aluminum, Add	4.21	
For Galvanized Steel, Add	14.51	
For 304 Stainless Steel, Add	66.72	
05 12 23 00-0630 LF 1-7/8" Carbon Steel Rounds, ASTM A108.....	38.91	
For 316 Stainless Steel, Add	87.74	
For Aluminum, Add	4.94	
For Galvanized Steel, Add	17.00	
For 304 Stainless Steel, Add	78.15	
05 12 23 00-0631 LF 2" Carbon Steel Rounds, ASTM A108.....	44.70	
For 316 Stainless Steel, Add	97.60	
For Aluminum, Add	5.49	
For Galvanized Steel, Add	18.91	
For 304 Stainless Steel, Add	86.93	
05 12 23 00-0632 LF 2-1/8" Carbon Steel Rounds, ASTM A108.....	52.49	
For 316 Stainless Steel, Add	111.49	
For Aluminum, Add	6.27	
For Galvanized Steel, Add	21.60	
For 304 Stainless Steel, Add	99.29	
05 12 23 00-0633 LF 2-1/4" Carbon Steel Rounds, ASTM A108.....	59.46	
For 316 Stainless Steel, Add	125.34	
For Aluminum, Add	7.05	
For Galvanized Steel, Add	24.29	
For 304 Stainless Steel, Add	111.63	
05 12 23 00-0634 LF 2-3/8" Carbon Steel Rounds, ASTM A108.....	68.13	
For 316 Stainless Steel, Add	143.36	
For Aluminum, Add	8.06	
For Galvanized Steel, Add	27.78	
For 304 Stainless Steel, Add	127.68	
05 12 23 00-0635 LF 2-1/2" Carbon Steel Rounds, ASTM A108.....	75.68	
For 316 Stainless Steel, Add	154.50	
For Aluminum, Add	8.69	
For Galvanized Steel, Add	29.93	
For 304 Stainless Steel, Add	137.60	
05 12 23 00-0636 LF 2-5/8" Carbon Steel Rounds, ASTM A108.....	91.76	
For 316 Stainless Steel, Add	196.26	
For Aluminum, Add	11.04	
For Galvanized Steel, Add	38.02	
For 304 Stainless Steel, Add	174.79	
05 12 23 00-0637 LF 2-3/4" Carbon Steel Rounds, ASTM A108.....	104.44	
For 316 Stainless Steel, Add	223.81	
For Aluminum, Add	12.59	
For Galvanized Steel, Add	43.36	
For 304 Stainless Steel, Add	199.33	
05 12 23 00-0638 LF 2-7/8" Carbon Steel Rounds, ASTM A108.....	116.49	
For 316 Stainless Steel, Add	249.41	
For Aluminum, Add	14.03	
For Galvanized Steel, Add	48.32	
For 304 Stainless Steel, Add	222.13	
05 12 23 00-0639 LF 3" Carbon Steel Rounds, ASTM A108.....	122.89	
For 316 Stainless Steel, Add	256.86	
For Aluminum, Add	14.45	
For Galvanized Steel, Add	49.77	
For 304 Stainless Steel, Add	228.77	
05 12 23 00-0640 LF 3-1/8" Carbon Steel Rounds, ASTM A108.....	128.72	
For 316 Stainless Steel, Add	262.56	
For Aluminum, Add	14.77	
For Galvanized Steel, Add	50.87	
For 304 Stainless Steel, Add	233.84	
05 12 23 00-0641 LF 3-1/4" Carbon Steel Rounds, ASTM A108.....	136.13	
For 316 Stainless Steel, Add	273.28	
For Aluminum, Add	15.37	
For Galvanized Steel, Add	52.95	
For 304 Stainless Steel, Add	243.39	
05 12 23 00-0642 LF 3-1/2" Carbon Steel Rounds, ASTM A108.....	164.16	
For 316 Stainless Steel, Add	346.75	
For Aluminum, Add	19.50	
For Galvanized Steel, Add	67.18	
For 304 Stainless Steel, Add	308.83	
05 12 23 00-0643 LF 3-5/8" Carbon Steel Rounds, ASTM A108.....	182.09	
For 316 Stainless Steel, Add	387.90	
For Aluminum, Add	21.82	
For Galvanized Steel, Add	75.16	
For 304 Stainless Steel, Add	345.48	
05 12 23 00-0644 LF 3-3/4" Carbon Steel Rounds, ASTM A108.....	195.62	
For 316 Stainless Steel, Add	414.94	
For Aluminum, Add	23.34	
For Galvanized Steel, Add	80.40	
For 304 Stainless Steel, Add	369.56	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0645 LF 4" Carbon Steel Rounds, ASTM A108.....	218.65	
For 316 Stainless Steel, Add	472.42	
For Aluminum, Add	26.57	
For Galvanized Steel, Add	91.53	
For 304 Stainless Steel, Add	420.75	
05 12 23 00-0646 Square Stock <small>(05 12 23 00-0408)</small>		
05 12 23 00-0647 LF 3/8" Square Bar Stock.....	1.87	
For 316 Stainless Steel, Add	2.18	
For Aluminum, Add	0.12	
For Galvanized Steel, Add	0.42	
For 304 Stainless Steel, Add	1.94	
05 12 23 00-0648 LF 1/2" Square Bar Stock.....	2.52	
For 316 Stainless Steel, Add	3.87	
For Aluminum, Add	0.22	
For Galvanized Steel, Add	0.75	
For 304 Stainless Steel, Add	3.45	
05 12 23 00-0649 LF 5/8" Square Bar Stock.....	3.34	
For 316 Stainless Steel, Add	6.05	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.17	
For 304 Stainless Steel, Add	5.39	
05 12 23 00-0650 LF 3/4" Square Bar Stock.....	4.47	
For 316 Stainless Steel, Add	8.74	
For Aluminum, Add	0.49	
For Galvanized Steel, Add	1.69	
For 304 Stainless Steel, Add	7.78	
05 12 23 00-0651 LF 7/8" Square Bar Stock.....	5.82	
For 316 Stainless Steel, Add	12.19	
For Aluminum, Add	0.69	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	10.86	
05 12 23 00-0652 LF 1" Square Bar Stock.....	7.25	
For 316 Stainless Steel, Add	15.58	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.02	
For 304 Stainless Steel, Add	13.88	
05 12 23 00-0653 LF 1-1/4" Square Bar Stock.....	11.33	
For 316 Stainless Steel, Add	24.32	
For Aluminum, Add	1.37	
For Galvanized Steel, Add	4.71	
For 304 Stainless Steel, Add	21.66	
05 12 23 00-0654 LF 1-1/2" Square Bar Stock.....	16.16	
For 316 Stainless Steel, Add	35.01	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.78	
For 304 Stainless Steel, Add	31.18	
05 12 23 00-0655 LF 1-3/4" Square Bar Stock.....	23.92	
For 316 Stainless Steel, Add	48.67	
For Aluminum, Add	2.74	
For Galvanized Steel, Add	9.43	
For 304 Stainless Steel, Add	43.35	
05 12 23 00-0656 LF 2" Square Bar Stock.....	34.08	
For 316 Stainless Steel, Add	62.27	
For Aluminum, Add	3.50	
For Galvanized Steel, Add	12.07	
For 304 Stainless Steel, Add	55.46	
05 12 23 00-0657 Steel Tubing <small>(05 12 23 00-0408)</small>		
Note: General purpose low-carbon steel.		
05 12 23 00-0658 Square Steel Tubing <small>(05 12 23 00-0657)</small>		
05 12 23 00-0659 0.06" Wall Thickness <small>(05 12 23 00-0658)</small>		
05 12 23 00-0660 LF 1/2" x 1/2" x 0.06" Square Steel Tubing.....	2.54	0.56
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.20	
For >1,000, Deduct	-0.28	
For Galvanized Steel, Add	1.11	
05 12 23 00-0661 LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....	3.90	0.89
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.44	
For Galvanized Steel, Add	1.69	
05 12 23 00-0662 LF 1" x 1" x 0.06" Square Steel Tubing.....	5.24	1.60
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.42	
For >1,000, Deduct	-0.59	
For Galvanized Steel, Add	2.26	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0663	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	6.95	1.52
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.55	
			<i>For >1,000, Deduct</i>	-0.78	
			<i>For Galvanized Steel, Add</i>	3.04	
05 12 23 00-0664	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	8.22	1.84
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.66	
			<i>For >1,000, Deduct</i>	-0.92	
			<i>For Galvanized Steel, Add</i>	3.57	
05 12 23 00-0665			0.083" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0666	LF		3/4" x 3/4" x 0.083" Square Steel Tubing.....	4.54	1.04
			<i>For >100 To 250, Deduct</i>	-0.10	
			<i>For >250 To 500, Deduct</i>	-0.22	
			<i>For >500 To 1,000, Deduct</i>	-0.37	
			<i>For >1,000, Deduct</i>	-0.51	
			<i>For Galvanized Steel, Add</i>	1.96	
05 12 23 00-0667	LF		1" x 1" x 0.083" Square Steel Tubing.....	6.62	1.42
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.31	
			<i>For >500 To 1,000, Deduct</i>	-0.52	
			<i>For >1,000, Deduct</i>	-0.73	
			<i>For Galvanized Steel, Add</i>	2.93	
05 12 23 00-0668	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	7.99	1.80
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500 To 1,000, Deduct</i>	-0.64	
			<i>For >1,000, Deduct</i>	-0.90	
			<i>For Galvanized Steel, Add</i>	3.46	
05 12 23 00-0669	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	9.65	2.20
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.77	
			<i>For >1,000, Deduct</i>	-1.09	
			<i>For Galvanized Steel, Add</i>	4.17	
05 12 23 00-0670	LF		2" x 2" x 0.083" Square Steel Tubing.....	12.37	2.92
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-1.01	
			<i>For >1,000, Deduct</i>	-1.42	
			<i>For Galvanized Steel, Add</i>	5.25	
05 12 23 00-0671			0.12" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0672	LF		1" x 1" x 0.12" Square Steel Tubing.....	7.30	1.69
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.35	
			<i>For >500 To 1,000, Deduct</i>	-0.59	
			<i>For >1,000, Deduct</i>	-0.83	
			<i>For Galvanized Steel, Add</i>	3.12	
05 12 23 00-0673	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	9.39	2.17
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.45	
			<i>For >500 To 1,000, Deduct</i>	-0.76	
			<i>For >1,000, Deduct</i>	-1.07	
			<i>For Galvanized Steel, Add</i>	4.03	
05 12 23 00-0674	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	11.53	2.65
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.93	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For Galvanized Steel, Add</i>	4.96	
05 12 23 00-0675	LF		2" x 2" x 0.12" Square Steel Tubing.....	15.60	3.61
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For Galvanized Steel, Add</i>	6.69	
05 12 23 00-0676			1/8" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0677	LF		2" x 2" x 1/8" Square Steel Tubing.....	14.00	3.75
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500 To 1,000, Deduct</i>	-1.20	
			<i>For >1,000, Deduct</i>	-1.68	
			<i>For Galvanized Steel, Add</i>	5.58	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0678 LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	18.48	4.75
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.56	
For >1,000, Deduct	-2.18	
For Galvanized Steel, Add	7.53	
05 12 23 00-0679 LF 3" x 3" x 1/8" Square Steel Tubing.....	21.64	5.74
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.85	
For >1,000, Deduct	-2.58	
For Galvanized Steel, Add	8.66	
05 12 23 00-0680 LF 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing	25.07	6.75
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.30	
For >500 To 1,000, Deduct	-2.15	
For >1,000, Deduct	-3.01	
For Galvanized Steel, Add	9.96	
05 12 23 00-0681 LF 4" x 4" x 1/8" Square Steel Tubing.....	27.58	7.75
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.41	
For >1,000, Deduct	-3.36	
For Galvanized Steel, Add	10.70	
05 12 23 00-0682 3/16" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0683 LF 2" x 2" x 3/16" Square Steel Tubing.....	15.88	4.23
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.82	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.90	
For Galvanized Steel, Add	6.35	
05 12 23 00-0684 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing	20.55	5.47
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-1.76	
For >1,000, Deduct	-2.45	
For Galvanized Steel, Add	8.22	
05 12 23 00-0685 LF 3" x 3" x 3/16" Square Steel Tubing.....	25.25	6.73
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.30	
For >500 To 1,000, Deduct	-2.16	
For >1,000, Deduct	-3.02	
For Galvanized Steel, Add	10.09	
05 12 23 00-0686 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing	29.96	7.98
For >100 To 250, Deduct	-0.80	
For >250 To 500, Deduct	-1.55	
For >500 To 1,000, Deduct	-2.56	
For >1,000, Deduct	-3.58	
For Galvanized Steel, Add	11.98	
05 12 23 00-0687 LF 4" x 4" x 3/16" Square Steel Tubing.....	34.61	9.22
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.79	
For >500 To 1,000, Deduct	-2.96	
For >1,000, Deduct	-4.13	
For Galvanized Steel, Add	13.84	
05 12 23 00-0688 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	39.33	10.48
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.36	
For >1,000, Deduct	-4.70	
For Galvanized Steel, Add	15.72	
05 12 23 00-0689 LF 5" x 5" x 3/16" Square Steel Tubing.....	44.00	11.72
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.27	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.25	
For Galvanized Steel, Add	17.59	
05 12 23 00-0690 LF 6" x 6" x 3/16" Square Steel Tubing.....	53.42	14.23
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.76	
For >500 To 1,000, Deduct	-4.57	
For >1,000, Deduct	-6.38	
For Galvanized Steel, Add	21.35	
05 12 23 00-0691 1/4" Wall Thickness (05 12 23 00-0658)		
05 12 23 00-0692 LF 2" x 2" x 1/4" Square Steel Tubing.....	16.97	4.24
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.41	
For >1,000, Deduct	-1.98	
For Galvanized Steel, Add	7.02	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0693	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	22.30	5.57
			<i>For >100 To 250, Deduct</i>	-0.56	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500 To 1,000, Deduct</i>	-1.86	
			<i>For >1,000, Deduct</i>	-2.60	
			<i>For Galvanized Steel, Add</i>	9.22	
05 12 23 00-0694	LF		3" x 3" x 1/4" Square Steel Tubing.....	27.63	6.90
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.38	
			<i>For >500 To 1,000, Deduct</i>	-2.30	
			<i>For >1,000, Deduct</i>	-3.22	
			<i>For Galvanized Steel, Add</i>	11.43	
05 12 23 00-0695	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	32.95	8.23
			<i>For >100 To 250, Deduct</i>	-0.82	
			<i>For >250 To 500, Deduct</i>	-1.65	
			<i>For >500 To 1,000, Deduct</i>	-2.74	
			<i>For >1,000, Deduct</i>	-3.84	
			<i>For Galvanized Steel, Add</i>	13.63	
05 12 23 00-0696	LF		4" x 4" x 1/4" Square Steel Tubing.....	38.30	9.56
			<i>For >100 To 250, Deduct</i>	-0.96	
			<i>For >250 To 500, Deduct</i>	-1.91	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.47	
			<i>For Galvanized Steel, Add</i>	15.83	
05 12 23 00-0697	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	43.63	10.89
			<i>For >100 To 250, Deduct</i>	-1.09	
			<i>For >250 To 500, Deduct</i>	-2.18	
			<i>For >500 To 1,000, Deduct</i>	-3.63	
			<i>For >1,000, Deduct</i>	-5.09	
			<i>For Galvanized Steel, Add</i>	18.04	
05 12 23 00-0698	LF		5" x 5" x 1/4" Square Steel Tubing.....	48.99	12.23
			<i>For >100 To 250, Deduct</i>	-1.22	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.08	
			<i>For >1,000, Deduct</i>	-5.71	
			<i>For Galvanized Steel, Add</i>	20.26	
05 12 23 00-0699	LF		6" x 6" x 1/4" Square Steel Tubing.....	59.64	14.90
			<i>For >100 To 250, Deduct</i>	-1.49	
			<i>For >250 To 500, Deduct</i>	-2.98	
			<i>For >500 To 1,000, Deduct</i>	-4.97	
			<i>For >1,000, Deduct</i>	-6.96	
			<i>For Galvanized Steel, Add</i>	24.66	
05 12 23 00-0700			Rectangular Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0701			3/16" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0702	LF		3" x 2" x 3/16" Square Steel Tubing.....	20.55	5.47
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.76	
			<i>For >1,000, Deduct</i>	-2.45	
			<i>For Galvanized Steel, Add</i>	8.22	
05 12 23 00-0703	LF		4" x 2" x 3/16" Square Steel Tubing.....	25.25	6.73
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.16	
			<i>For >1,000, Deduct</i>	-3.02	
			<i>For Galvanized Steel, Add</i>	10.09	
05 12 23 00-0704	LF		4" x 3" x 3/16" Square Steel Tubing.....	29.96	7.98
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For Galvanized Steel, Add</i>	11.98	
05 12 23 00-0705	LF		5" x 2" x 3/16" Square Steel Tubing.....	29.96	7.98
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.55	
			<i>For >500 To 1,000, Deduct</i>	-2.56	
			<i>For >1,000, Deduct</i>	-3.58	
			<i>For Galvanized Steel, Add</i>	11.98	
05 12 23 00-0706	LF		5" x 3" x 3/16" Square Steel Tubing.....	34.61	9.22
			<i>For >100 To 250, Deduct</i>	-0.92	
			<i>For >250 To 500, Deduct</i>	-1.79	
			<i>For >500 To 1,000, Deduct</i>	-2.96	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For Galvanized Steel, Add</i>	13.84	
05 12 23 00-0707	LF		5" x 4" x 3/16" Square Steel Tubing.....	39.33	10.48
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-2.03	
			<i>For >500 To 1,000, Deduct</i>	-3.36	
			<i>For >1,000, Deduct</i>	-4.70	
			<i>For Galvanized Steel, Add</i>	15.72	



Metals	05	05
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0708 LF 6" x 2" x 3/16" Square Steel Tubing.....	34.61	9.22
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.79	
For >500 To 1,000, Deduct	-2.96	
For >1,000, Deduct	-4.13	
For Galvanized Steel, Add	13.84	
05 12 23 00-0709 LF 6" x 3" x 3/16" Square Steel Tubing.....	39.33	10.48
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.36	
For >1,000, Deduct	-4.70	
For Galvanized Steel, Add	15.72	
05 12 23 00-0710 LF 6" x 4" x 3/16" Square Steel Tubing.....	44.00	11.72
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.27	
For >500 To 1,000, Deduct	-3.76	
For >1,000, Deduct	-5.25	
For Galvanized Steel, Add	17.59	
05 12 23 00-0711 1/4" Wall Thickness (05 12 23 00-0700)		
05 12 23 00-0712 LF 3" x 2" x 1/4" Square Steel Tubing.....	22.30	5.57
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.11	
For >500 To 1,000, Deduct	-1.86	
For >1,000, Deduct	-2.60	
For Galvanized Steel, Add	9.22	
05 12 23 00-0713 LF 4" x 2" x 1/4" Square Steel Tubing.....	27.63	6.90
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.38	
For >500 To 1,000, Deduct	-2.30	
For >1,000, Deduct	-3.22	
For Galvanized Steel, Add	11.43	
05 12 23 00-0714 LF 4" x 3" x 1/4" Square Steel Tubing.....	32.95	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For Galvanized Steel, Add	13.63	
05 12 23 00-0715 LF 5" x 2" x 1/4" Square Steel Tubing.....	32.95	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For Galvanized Steel, Add	13.63	
05 12 23 00-0716 LF 5" x 3" x 1/4" Square Steel Tubing.....	38.30	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.19	
For >1,000, Deduct	-4.47	
For Galvanized Steel, Add	15.83	
05 12 23 00-0717 LF 5" x 4" x 1/4" Square Steel Tubing.....	43.63	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.09	
For Galvanized Steel, Add	18.04	
05 12 23 00-0718 LF 6" x 2" x 1/4" Square Steel Tubing.....	38.30	9.56
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.91	
For >500 To 1,000, Deduct	-3.19	
For >1,000, Deduct	-4.47	
For Galvanized Steel, Add	15.83	
05 12 23 00-0719 LF 6" x 3" x 1/4" Square Steel Tubing.....	43.63	10.89
For >100 To 250, Deduct	-1.09	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.09	
For Galvanized Steel, Add	18.04	
05 12 23 00-0720 LF 6" x 4" x 1/4" Square Steel Tubing.....	48.99	12.23
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.45	
For >500 To 1,000, Deduct	-4.08	
For >1,000, Deduct	-5.71	
For Galvanized Steel, Add	20.26	
05 12 23 00-0721 Round Steel Tubing (05 12 23 00-0657)		
05 12 23 00-0722 0.065" Wall Thickness (05 12 23 00-0721)		
05 12 23 00-0723 LF 1" Diameter x 0.065" Round Steel Tubing.....	4.54	1.02
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.22	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.51	
For Galvanized Steel, Add	1.97	

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0724	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	5.75	1.29
			<i>For >100 To 250, Deduct</i>	-0.13	
			<i>For >250 To 500, Deduct</i>	-0.27	
			<i>For >500 To 1,000, Deduct</i>	-0.46	
			<i>For >1,000, Deduct</i>	-0.65	
			<i>For Galvanized Steel, Add</i>	2.50	
05 12 23 00-0725	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	6.96	1.56
			<i>For >100 To 250, Deduct</i>	-0.16	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.56	
			<i>For >1,000, Deduct</i>	-0.78	
			<i>For Galvanized Steel, Add</i>	3.03	
05 12 23 00-0726	LF		2" Diameter x 0.065" Round Steel Tubing	9.38	2.11
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.44	
			<i>For >500 To 1,000, Deduct</i>	-0.75	
			<i>For >1,000, Deduct</i>	-1.05	
			<i>For Galvanized Steel, Add</i>	4.08	
05 12 23 00-0727	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	11.81	2.65
			<i>For >100 To 250, Deduct</i>	-0.26	
			<i>For >250 To 500, Deduct</i>	-0.56	
			<i>For >500 To 1,000, Deduct</i>	-0.94	
			<i>For >1,000, Deduct</i>	-1.33	
			<i>For Galvanized Steel, Add</i>	5.13	
05 12 23 00-0728	LF		3" Diameter x 0.065" Round Steel Tubing	14.23	3.19
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.67	
			<i>For >500 To 1,000, Deduct</i>	-1.14	
			<i>For >1,000, Deduct</i>	-1.60	
			<i>For Galvanized Steel, Add</i>	6.19	
05 12 23 00-0729	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	16.67	3.74
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.33	
			<i>For >1,000, Deduct</i>	-1.87	
			<i>For Galvanized Steel, Add</i>	7.25	
05 12 23 00-0730	LF		4" Diameter x 0.065" Round Steel Tubing	19.09	4.28
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500 To 1,000, Deduct</i>	-1.52	
			<i>For >1,000, Deduct</i>	-2.14	
			<i>For Galvanized Steel, Add</i>	8.30	
05 12 23 00-0731			0.083" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0732	LF		1" Diameter x 0.083" Round Steel Tubing	4.92	1.12
			<i>For >100 To 250, Deduct</i>	-0.11	
			<i>For >250 To 500, Deduct</i>	-0.23	
			<i>For >500 To 1,000, Deduct</i>	-0.39	
			<i>For >1,000, Deduct</i>	-0.55	
			<i>For Galvanized Steel, Add</i>	2.13	
05 12 23 00-0733	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.27	1.42
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.30	
			<i>For >500 To 1,000, Deduct</i>	-0.50	
			<i>For >1,000, Deduct</i>	-0.71	
			<i>For Galvanized Steel, Add</i>	2.72	
05 12 23 00-0734	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	7.62	1.72
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.61	
			<i>For >1,000, Deduct</i>	-0.86	
			<i>For Galvanized Steel, Add</i>	3.30	
05 12 23 00-0735	LF		2" Diameter x 0.083" Round Steel Tubing	10.29	2.33
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.49	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.16	
			<i>For Galvanized Steel, Add</i>	4.46	
05 12 23 00-0736	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	12.99	2.94
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500 To 1,000, Deduct</i>	-1.04	
			<i>For >1,000, Deduct</i>	-1.46	
			<i>For Galvanized Steel, Add</i>	5.62	
05 12 23 00-0737	LF		3" Diameter x 0.083" Round Steel Tubing	15.67	3.55
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.75	
			<i>For >500 To 1,000, Deduct</i>	-1.26	
			<i>For >1,000, Deduct</i>	-1.77	
			<i>For Galvanized Steel, Add</i>	6.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0738	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	18.35	4.15
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.47	
			<i>For >1,000, Deduct</i>	-2.07	
			<i>For Galvanized Steel, Add</i>	7.95	
05 12 23 00-0739	LF		4" Diameter x 0.083" Round Steel Tubing	21.05	4.76
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-1.00	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.37	
			<i>For Galvanized Steel, Add</i>	9.11	
05 12 23 00-0740			0.125" Wall Thickness <small>(05 12 23 00-0721)</small>		
05 12 23 00-0741	LF		2" Diameter x 0.125" Round Steel Tubing	10.98	2.94
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.57	
			<i>For >500 To 1,000, Deduct</i>	-0.94	
			<i>For >1,000, Deduct</i>	-1.31	
			<i>For Galvanized Steel, Add</i>	4.38	
05 12 23 00-0742	LF		2-1/2" Diameter x 0.125" Round Steel Tubing	13.91	3.73
			<i>For >100 To 250, Deduct</i>	-0.37	
			<i>For >250 To 500, Deduct</i>	-0.72	
			<i>For >500 To 1,000, Deduct</i>	-1.19	
			<i>For >1,000, Deduct</i>	-1.66	
			<i>For Galvanized Steel, Add</i>	5.54	
05 12 23 00-0743	LF		3" Diameter x 0.125" Round Steel Tubing	16.84	4.51
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.87	
			<i>For >500 To 1,000, Deduct</i>	-1.44	
			<i>For >1,000, Deduct</i>	-2.02	
			<i>For Galvanized Steel, Add</i>	6.71	
05 12 23 00-0744	LF		3-1/2" Diameter x 0.125" Round Steel Tubing	19.76	5.29
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-1.02	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.36	
			<i>For Galvanized Steel, Add</i>	7.87	
05 12 23 00-0745	LF		4" Diameter x 0.125" Round Steel Tubing	22.69	6.08
			<i>For >100 To 250, Deduct</i>	-0.61	
			<i>For >250 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-1.94	
			<i>For >1,000, Deduct</i>	-2.71	
			<i>For Galvanized Steel, Add</i>	9.05	
05 12 23 00-0746			Flat Steel Bar <small>(05 12 23 00-0408)</small>		
05 12 23 00-0747			1/8" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0748	LF		1/8" Thick x 1" Wide Flat Steel Bar	3.17	1.46
			<i>For Galvanized Steel, Add</i>	0.60	
05 12 23 00-0749	LF		1/8" Thick x 2" Wide Flat Steel Bar	4.91	2.20
			<i>For Galvanized Steel, Add</i>	1.00	
05 12 23 00-0750	LF		1/8" Thick x 4" Wide Flat Steel Bar	7.58	3.09
			<i>For Galvanized Steel, Add</i>	1.82	
05 12 23 00-0751	LF		1/8" Thick x 6" Wide Flat Steel Bar	10.27	4.20
			<i>For Galvanized Steel, Add</i>	2.46	
05 12 23 00-0752			3/16" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0753	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.21	1.81
			<i>For Galvanized Steel, Add</i>	0.92	
05 12 23 00-0754	LF		3/16" Thick x 2" Wide Flat Steel Bar	6.65	2.73
			<i>For Galvanized Steel, Add</i>	1.59	
05 12 23 00-0755	LF		3/16" Thick x 4" Wide Flat Steel Bar	9.01	3.13
			<i>For Galvanized Steel, Add</i>	2.67	
05 12 23 00-0756	LF		3/16" Thick x 6" Wide Flat Steel Bar	12.48	4.34
			<i>For Galvanized Steel, Add</i>	3.70	
05 12 23 00-0757			1/4" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0758	LF		1/4" Thick x 1" Wide Flat Steel Bar	4.34	1.92
			<i>For Galvanized Steel, Add</i>	0.91	
05 12 23 00-0759	LF		1/4" Thick x 2" Wide Flat Steel Bar	7.28	2.88
			<i>For Galvanized Steel, Add</i>	1.84	
05 12 23 00-0760	LF		1/4" Thick x 4" Wide Flat Steel Bar	10.67	3.29
			<i>For Galvanized Steel, Add</i>	3.55	
05 12 23 00-0761	LF		1/4" Thick x 6" Wide Flat Steel Bar	15.44	4.87
			<i>For Galvanized Steel, Add</i>	5.03	
05 12 23 00-0762			3/8" Thick <small>(05 12 23 00-0746)</small>		

05 Metals**05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0763	LF		3/8" Thick x 1" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	5.54 1.43	2.17
05 12 23 00-0764	LF		3/8" Thick x 2" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	9.11 2.63	3.23
05 12 23 00-0765	LF		3/8" Thick x 4" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	14.02 5.25	3.70
05 12 23 00-0766	LF		3/8" Thick x 6" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	20.15 7.39	5.47
05 12 23 00-0767			1/2" Thick <small>(05 12 23 00-0746)</small>		
05 12 23 00-0768	LF		1/2" Thick x 1" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	6.51 1.82	2.37
05 12 23 00-0769	LF		1/2" Thick x 2" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	10.77 3.35	3.57
05 12 23 00-0770	LF		1/2" Thick x 4" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	15.32 5.71	4.06
05 12 23 00-0771	LF		1/2" Thick x 6" Wide Flat Steel Bar <i>For Galvanized Steel, Add</i>	27.43 11.40	6.03
05 12 23 00-0772			Flat Steel Plate <small>(05 12 23 00-0408)</small>		
05 12 23 00-0773	SF		1/8" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	16.38 22.18 1.25 4.30 19.75	6.30
05 12 23 00-0774	SF		3/16" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	18.46 27.74 1.56 5.38 24.71	6.52
05 12 23 00-0775	SF		1/4" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	22.02 35.39 1.99 6.86 31.52	7.31
05 12 23 00-0776	SF		3/8" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	29.69 55.55 3.12 10.76 49.48	8.22
05 12 23 00-0777	SF		1/2" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	35.19 69.22 3.89 13.41 61.65	9.04
05 12 23 00-0778	SF		3/4" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	57.52 129.79 7.30 25.15 115.60	11.20
05 12 23 00-0779	SF		1" Thick Flat Steel Plate <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i>	76.74 177.73 10.00 34.43 158.29	13.99

05 13 Structural Stainless-Steel Framing (05 10)**05 13 00 00-0001** **Stainless Steel Tube** (05 13)

05 13 00 00-0002	LF		1" x 1" Stainless Steel Tube 05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube 05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube	32.21 41.79 56.44	
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05 14 Structural Aluminum Framing (05 10)**05 14 13 Architecturally-Exposed Structural Aluminum Framing** (05 14)**05 14 13 00-0001** **Rolled Or Plate Shapes** (05 14 13)

Note: 1" through 10" member.

05 14 13 00-0002	LB		Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members 05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	6.12 5.42	0.82 0.76
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05 14 13 00-0004 **Aluminum Extrusions** (05 14 13)

05 14 13 00-0005	LB		Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members 05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	11.02 11.55	3.40 3.40
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05 14 13 00-0007 **Aluminum Tubing** (05 14 13)



Metals	05	05
Structural Metal Framing	05 10	
Structural Aluminum Framing	05 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members.....	9.67	2.15
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness.....	9.80	3.48
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness.....	11.56	3.80
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness.....	13.32	4.43
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness.....	15.47	4.76
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness.....	39.46	6.03
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness.....	32.65	5.39
05 14 13 00-0015 Columns (05 14 13)		
Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column.....	37.62	6.80
05 14 13 00-0018 LF 8" Diameter Aluminum Column.....	50.01	9.74
05 14 13 00-0019 LF 10" Diameter Aluminum Column.....	60.41	10.96
05 14 13 00-0020 LF 12" Diameter Aluminum Column.....	87.48	11.46
05 14 13 00-0021 LF 15" Diameter Aluminum Column.....	110.80	13.29
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap.....	72.02	12.68
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap.....	81.92	13.70
05 14 13 00-0024 EA 10" Diameter Aluminum Base And Cap.....	102.11	15.22
05 14 13 00-0025 EA 12" Diameter Aluminum Base And Cap.....	170.18	16.23
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap.....	256.13	17.75
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column.....	40.97	6.80
05 14 13 00-0029 LF 8" Diameter Aluminum Column.....	56.11	9.74
05 14 13 00-0030 LF 10" Diameter Aluminum Column.....	68.11	10.96
05 14 13 00-0031 LF 12" Diameter Aluminum Column.....	100.41	11.46
05 14 13 00-0032 LF 15" Diameter Aluminum Column.....	127.66	13.29
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap.....	81.35	12.68
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap.....	92.83	13.70
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap.....	116.44	15.22
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap.....	197.72	16.23
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap.....	300.25	17.75
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column.....	45.09	6.80
05 14 13 00-0040 LF 8" Diameter Aluminum Column.....	61.60	9.74
05 14 13 00-0041 LF 10" Diameter Aluminum Column.....	75.04	10.96
05 14 13 00-0042 LF 12" Diameter Aluminum Column.....	112.04	11.46
05 14 13 00-0043 LF 15" Diameter Aluminum Column.....	142.84	13.29
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap.....	89.75	12.68
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap.....	102.64	13.70
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap.....	129.34	15.22
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap.....	222.51	16.23
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap.....	339.96	17.75
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column.....	47.91	6.80
05 14 13 00-0051 LF 8" Aluminum Column.....	65.35	9.74
05 14 13 00-0052 LF 10" Aluminum Column.....	79.78	10.96
05 14 13 00-0053 LF 12" Aluminum Column.....	120.00	11.46
05 14 13 00-0054 LF 15" Aluminum Column.....	153.22	13.29
05 14 13 00-0055 EA 6" Aluminum Base And Cap.....	95.49	12.68
05 14 13 00-0056 EA 8" Aluminum Base And Cap.....	109.35	13.70
05 14 13 00-0057 EA 10" Aluminum Base And Cap.....	138.16	15.22
05 14 13 00-0058 EA 12" Aluminum Base And Cap.....	239.46	16.23
05 14 13 00-0059 EA 15" Aluminum Base And Cap.....	367.11	17.75
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061 EA 8" Corinthian Capital And Base.....	505.40	15.22
05 14 13 00-0062 EA 10" Corinthian Capital And Base.....	740.84	17.75
05 14 13 00-0063 EA 12" Corinthian Capital And Base.....	1,167.08	20.29
05 14 13 00-0064 EA 8" Scamozzi Capital And Base.....	255.74	15.22
05 14 13 00-0065 EA 10" Scamozzi Capital And Base.....	340.98	17.75
05 14 13 00-0066 EA 12" Scamozzi Capital And Base.....	676.29	20.29

05 15 Wire Rope Assemblies (05 10)

05 15 16 Steel Wire Rope Assemblies (05 15)

05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.01	0.10
		<i>For >500, Deduct</i>	-0.17	
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.38	0.10
		<i>For >500, Deduct</i>	-0.22	
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.68	0.21
		<i>For >500, Deduct</i>	-0.26	
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.06	0.21
		<i>For >500, Deduct</i>	-0.30	
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.42	0.31
		<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.99	0.41
		<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.59	0.41
		<i>For >500, Deduct</i>	-0.49	
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.02	0.74
		<i>For >500, Deduct</i>	-0.67	
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.75	0.84
		<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.50	1.15
		<i>For >500, Deduct</i>	-1.11	
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.51	1.46
		<i>For >500, Deduct</i>	-1.37	
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.82	1.77
		<i>For >500, Deduct</i>	-1.67	
05 15 16 00-0014		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.18	0.10
		<i>For >500, Deduct</i>	-0.20	
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.54	0.10
		<i>For >500, Deduct</i>	-0.25	
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.95	0.21
		<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.27	0.21
		<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.72	0.31
		<i>For >500, Deduct</i>	-0.40	
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.19	0.41
		<i>For >500, Deduct</i>	-0.45	
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.76	0.41
		<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.50	0.74
		<i>For >500, Deduct</i>	-0.77	
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.11	0.84
		<i>For >500, Deduct</i>	-0.98	
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.83	1.15
		<i>For >500, Deduct</i>	-1.19	
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.31	1.46
		<i>For >500, Deduct</i>	-1.52	
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.72	1.77
		<i>For >500, Deduct</i>	-1.85	
05 15 16 00-0027		6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	0.95	0.10
		<i>For >500, Deduct</i>	-0.15	
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.31	0.10
		<i>For >500, Deduct</i>	-0.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.59	0.21
			<i>For >500, Deduct</i>	-0.24	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.91	0.21
			<i>For >500, Deduct</i>	-0.27	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.33	0.31
			<i>For >500, Deduct</i>	-0.32	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.95	0.41
			<i>For >500, Deduct</i>	-0.41	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.48	0.41
			<i>For >500, Deduct</i>	-0.47	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.91	0.74
			<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.12	0.84
			<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	7.83	1.15
			<i>For >500, Deduct</i>	-0.98	
05 15 16 00-0038			6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	0.94	0.10
			<i>For >500, Deduct</i>	-0.15	
05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.26	0.10
			<i>For >500, Deduct</i>	-0.20	
05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.59	0.21
			<i>For >500, Deduct</i>	-0.24	
05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.91	0.21
			<i>For >500, Deduct</i>	-0.27	
05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.41	0.31
			<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.91	0.41
			<i>For >500, Deduct</i>	-0.40	
05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.64	0.41
			<i>For >500, Deduct</i>	-0.50	
05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.10	0.74
			<i>For >500, Deduct</i>	-0.69	
05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	6.71	0.84
			<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.35	1.15
			<i>For >500, Deduct</i>	-1.09	
05 15 16 00-0049			6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.78	0.21
			<i>For >500, Deduct</i>	-0.28	
05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.13	0.21
			<i>For >500, Deduct</i>	-0.32	
05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.52	0.31
			<i>For >500, Deduct</i>	-0.36	
05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.37	0.41
			<i>For >500, Deduct</i>	-0.49	
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.78	0.41
			<i>For >500, Deduct</i>	-0.53	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.20	0.74
			<i>For >500, Deduct</i>	-0.71	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	6.73	0.84
			<i>For >500, Deduct</i>	-0.90	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	8.87	1.15
			<i>For >500, Deduct</i>	-1.18	
05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	10.79	1.46
			<i>For >500, Deduct</i>	-1.42	
05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.05	1.77
			<i>For >500, Deduct</i>	-1.71	
05 15 16 00-0060			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.82	0.21
			<i>For >500, Deduct</i>	-0.28	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.23	0.21
			<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	2.67	0.31
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.69	0.41
			<i>For >500, Deduct</i>	-0.55	
05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	3.83	0.41
			<i>For >500, Deduct</i>	-0.54	
05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	5.31	0.74
			<i>For >500, Deduct</i>	-0.73	
05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	7.05	0.84
			<i>For >500, Deduct</i>	-0.96	
05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope	8.98	1.15
			<i>For >500, Deduct</i>	-1.21	
05 15 16 00-0069			19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ^(05 15 16)		
05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	1.76	0.10
			<i>For >500, Deduct</i>	-0.31	
05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	1.94	0.10
			<i>For >500, Deduct</i>	-0.33	
05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.32	0.21
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.13	0.21
			<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.52	0.21
			<i>For >500, Deduct</i>	-0.59	
05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	4.21	0.41
			<i>For >500, Deduct</i>	-0.66	
05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.02	0.41
			<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.94	0.62
			<i>For >500, Deduct</i>	-1.07	
05 15 16 00-0078			7x7, Galvanized Finish, Aircraft Cable ^(05 15 16)		
05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.25	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.28	0.08
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.32	0.09
			<i>For >500, Deduct</i>	-0.03	
05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.37	0.10
			<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.44	0.10
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0084			7x19, Galvanized Finish, Aircraft Cable ^(05 15 16)		
05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.42	0.09
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.46	0.10
			<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0087	LF		3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.52	0.10
			<i>For >500, Deduct</i>	-0.07	
05 15 16 00-0088	LF		1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.58	0.10
			<i>For >500, Deduct</i>	-0.08	
05 15 16 00-0089	LF		5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.89	0.10
			<i>For >500, Deduct</i>	-0.12	
05 15 16 00-0090	LF		3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.21	0.10
			<i>For >500, Deduct</i>	-0.16	
05 15 16 00-0091			Heavy Duty, Galvanized Steel, Wire Rope Thimbles ^(05 15 16)		
05 15 16 00-0092	EA		1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	12.64	3.13
05 15 16 00-0093	EA		5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	13.99	3.13
05 15 16 00-0094	EA		3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	15.50	3.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 15 16 00-0095	EA		7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	19.64	3.13
	05 15 16 00-0096	EA		1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	19.66	3.13
	05 15 16 00-0097	EA		9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	19.66	3.13
	05 15 16 00-0098	EA		5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	21.06	3.13
	05 15 16 00-0099	EA		3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	37.76	4.81
	05 15 16 00-0100	EA		7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	44.74	5.84
	05 15 16 00-0101	EA		1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	78.93	9.61
	05 15 16 00-0102	EA		1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	112.67	13.06
	05 15 16 00-0103	EA		1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble.....	112.67	13.06
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips (05 15 16)						
	05 15 16 00-0105	EA		1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	11.80	3.13
	05 15 16 00-0106	EA		3/16" Diameter, Galvanized Steel, Wire Rope Clip.....	11.88	3.13
	05 15 16 00-0107	EA		1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	12.46	3.13
	05 15 16 00-0108	EA		5/16" Diameter, Galvanized Steel, Wire Rope Clip.....	12.55	3.13
	05 15 16 00-0109	EA		3/8" Diameter, Galvanized Steel, Wire Rope Clip.....	12.67	3.13
	05 15 16 00-0110	EA		7/16" Diameter, Galvanized Steel, Wire Rope Clip.....	13.91	3.13
	05 15 16 00-0111	EA		1/2" Diameter, Galvanized Steel, Wire Rope Clip.....	14.00	3.13
	05 15 16 00-0112	EA		9/16" Diameter, Galvanized Steel, Wire Rope Clip.....	15.10	3.13
	05 15 16 00-0113	EA		5/8" Diameter, Galvanized Steel, Wire Rope Clip.....	15.23	3.13
	05 15 16 00-0114	EA		3/4" Diameter, Galvanized Steel, Wire Rope Clip.....	21.92	4.18
	05 15 16 00-0115	EA		7/8" Diameter, Galvanized Steel, Wire Rope Clip.....	33.87	6.27
	05 15 16 00-0116	EA		1" Diameter, Galvanized Steel, Wire Rope Clip.....	35.81	6.27
	05 15 16 00-0117	EA		1-1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	43.94	8.35
	05 15 16 00-0118	EA		1-1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	64.14	12.54
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)						
	05 15 16 00-0120	EA		1/4" Diameter, Steel, Open Swage Socket.....	70.29	3.13
	05 15 16 00-0121	EA		5/16" Diameter, Steel, Open Swage Socket.....	111.10	3.13
	05 15 16 00-0122	EA		3/8" Diameter, Steel, Open Swage Socket.....	115.23	4.18
	05 15 16 00-0123	EA		7/16" Diameter, Steel, Open Swage Socket.....	137.64	5.22
	05 15 16 00-0124	EA		1/2" Diameter, Steel, Open Swage Socket.....	137.64	5.22
	05 15 16 00-0125	EA		9/16" Diameter, Steel, Open Swage Socket.....	204.64	11.49
	05 15 16 00-0126	EA		5/8" Diameter, Steel, Open Swage Socket.....	204.64	11.49
	05 15 16 00-0127	EA		3/4" Diameter, Steel, Open Swage Socket.....	267.12	21.94
	05 15 16 00-0128	EA		7/8" Diameter, Steel, Open Swage Socket.....	360.79	31.33
	05 15 16 00-0129	EA		1" Diameter, Steel, Open Swage Socket.....	511.51	48.05
	05 15 16 00-0130	EA		1-1/8" Diameter, Steel, Open Swage Socket.....	682.22	75.21
	05 15 16 00-0131	EA		1-1/4" Diameter, Steel, Open Swage Socket.....	794.45	86.70
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)						
	05 15 16 00-0133	EA		1/4" Diameter, Steel, Closed Swage Socket.....	56.97	3.13
	05 15 16 00-0134	EA		5/16" Diameter, Steel, Closed Swage Socket.....	76.34	3.13
	05 15 16 00-0135	EA		3/8" Diameter, Steel, Closed Swage Socket.....	76.34	3.13
	05 15 16 00-0136	EA		7/16" Diameter, Steel, Closed Swage Socket.....	95.58	4.18
	05 15 16 00-0137	EA		1/2" Diameter, Steel, Closed Swage Socket.....	96.73	4.18
	05 15 16 00-0138	EA		9/16" Diameter, Steel, Closed Swage Socket.....	134.37	7.32
	05 15 16 00-0139	EA		5/8" Diameter, Steel, Closed Swage Socket.....	139.35	8.35
	05 15 16 00-0140	EA		3/4" Diameter, Steel, Closed Swage Socket.....	174.29	13.57
	05 15 16 00-0141	EA		7/8" Diameter, Steel, Closed Swage Socket.....	227.41	19.84
	05 15 16 00-0142	EA		1" Diameter, Steel, Closed Swage Socket.....	325.11	27.16
	05 15 16 00-0143	EA		1-1/8" Diameter, Steel, Closed Swage Socket.....	405.70	37.60
	05 15 16 00-0144	EA		1-1/4" Diameter, Steel, Closed Swage Socket.....	556.33	58.49
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)						
	05 15 16 00-0146	EA		1/4" Galvanized Steel, Open Spelter Socket.....	116.20	3.13
	05 15 16 00-0147	EA		5/16" Galvanized Steel, Open Spelter Socket.....	119.85	3.13
	05 15 16 00-0148	EA		3/8" Galvanized Steel, Open Spelter Socket.....	119.85	3.13
	05 15 16 00-0149	EA		7/16" Galvanized Steel, Open Spelter Socket.....	135.78	6.27
	05 15 16 00-0150	EA		1/2" Galvanized Steel, Open Spelter Socket.....	135.78	6.27
	05 15 16 00-0151	EA		9/16" Galvanized Steel, Open Spelter Socket.....	180.18	10.44
	05 15 16 00-0152	EA		5/8" Galvanized Steel, Open Spelter Socket.....	180.18	10.44
	05 15 16 00-0153	EA		3/4" Galvanized Steel, Open Spelter Socket.....	230.36	15.67
	05 15 16 00-0154	EA		7/8" Galvanized Steel, Open Spelter Socket.....	346.69	26.11
	05 15 16 00-0155	EA		1" Galvanized Steel, Open Spelter Socket.....	624.34	40.73
	05 15 16 00-0156	EA		1-1/8" Galvanized Steel, Open Spelter Socket.....	749.09	65.81
	05 15 16 00-0157	EA		1-1/4" Galvanized Steel, Open Spelter Socket.....	1,011.53	86.70
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)						
	05 15 16 00-0159	EA		1/4" Galvanized Steel, Closed Spelter Socket.....	97.78	3.13
	05 15 16 00-0160	EA		5/16" Galvanized Steel, Closed Spelter Socket.....	98.22	3.13
	05 15 16 00-0161	EA		3/8" Galvanized Steel, Closed Spelter Socket.....	98.22	3.13
	05 15 16 00-0162	EA		7/16" Galvanized Steel, Closed Spelter Socket.....	111.55	5.22
	05 15 16 00-0163	EA		1/2" Galvanized Steel, Closed Spelter Socket.....	111.55	5.22
	05 15 16 00-0164	EA		9/16" Galvanized Steel, Closed Spelter Socket.....	158.09	9.40

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0165	EA		5/8" Galvanized Steel, Closed Spelter Socket	158.09	9.40
05 15 16 00-0166	EA		3/4" Galvanized Steel, Closed Spelter Socket	196.14	13.57
05 15 16 00-0167	EA		7/8" Galvanized Steel, Closed Spelter Socket	287.08	20.89
05 15 16 00-0168	EA		1" Galvanized Steel, Closed Spelter Socket	434.45	32.38
05 15 16 00-0169	EA		1-1/8" Galvanized Steel, Closed Spelter Socket	569.41	43.87
05 15 16 00-0170	EA		1-1/4" Galvanized Steel, Closed Spelter Socket	720.08	58.49
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)					
05 15 16 00-0172	EA		1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	67.92	3.13
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-8.62	
05 15 16 00-0173	EA		5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	72.70	3.13
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-9.34	
05 15 16 00-0174	EA		3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	81.56	3.13
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-10.67	
05 15 16 00-0175	EA		1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	91.54	4.18
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-11.10	
05 15 16 00-0176	EA		1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	120.21	5.22
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-14.77	
05 15 16 00-0177	EA		1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	136.66	6.27
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-16.72	
05 15 16 00-0178	EA		5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	140.33	8.35
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-16.23	
05 15 16 00-0179	EA		5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle	172.70	8.35
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-20.68	
05 15 16 00-0180	EA		5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	195.68	9.40
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-23.76	
05 15 16 00-0181	EA		3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle	189.44	11.49
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-21.75	
05 15 16 00-0182	EA		3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle	216.46	13.57
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-24.22	
05 15 16 00-0183	EA		3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	265.82	14.62
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-30.92	
05 15 16 00-0184	EA		3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	319.82	17.76
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-37.17	
05 15 16 00-0185	EA		7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle	367.24	25.07
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-40.16	
05 15 16 00-0186	EA		7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle	444.60	29.25
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-49.28	
05 15 16 00-0187	EA		1" x 6", Forged Steel, Jaw And Jaw Turnbuckle	380.80	25.07
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-42.20	
05 15 16 00-0188	EA		1" x 12", Forged Steel, Jaw And Jaw Turnbuckle	438.78	32.38
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-46.23	
05 15 16 00-0189	EA		1" x 18", Forged Steel, Jaw And Jaw Turnbuckle	598.29	40.73
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-65.64	
05 15 16 00-0190	EA		1" x 24", Forged Steel, Jaw And Jaw Turnbuckle	670.91	48.05
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-72.15	
05 15 16 00-0191	EA		1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle	751.34	58.49
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-77.88	
05 15 16 00-0192	EA		1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle	903.64	65.81
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-96.38	
05 15 16 00-0193	EA		1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle	1,163.22	75.21
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-129.72	
05 15 16 00-0194	EA		1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	1,154.91	80.43
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-125.03	
05 15 16 00-0195	EA		1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle	1,282.60	104.45
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-129.72	
05 15 16 00-0196	EA		1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	2,267.47	135.78
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-261.78	
05 15 16 00-0197	EA		2" x 24", Forged Steel, Jaw And Jaw Turnbuckle	3,753.48	261.13
			<i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	-406.34	
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)					
05 15 16 00-0199	EA		1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.57	
05 15 16 00-0200	EA		5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	15.64	
05 15 16 00-0201	EA		3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	17.43	
05 15 16 00-0202	EA		7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.75	
05 15 16 00-0203	EA		1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.67	
05 15 16 00-0204	EA		5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	27.84	
05 15 16 00-0205	EA		3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	33.07	
05 15 16 00-0206	EA		7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	44.24	
05 15 16 00-0207	EA		1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	58.64	
05 15 16 00-0208	EA		1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	84.64	
05 15 16 00-0209	EA		1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	100.49	
05 15 16 00-0210	EA		1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	180.84	
05 15 16 00-0211	EA		1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	207.24	
05 15 16 00-0212	EA		2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	255.82	
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)					
05 15 16 00-0214	EA		1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.06	
05 15 16 00-0215	EA		1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0216	EA		5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	24.22	
05 15 16 00-0217	EA		5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	16.79	
05 15 16 00-0218	EA		3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	22.09	
05 15 16 00-0219	EA		3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	32.54	
05 15 16 00-0220	EA		3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	31.64	
05 15 16 00-0221	EA		3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	30.14	
05 15 16 00-0222	EA		3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	27.18	
05 15 16 00-0223	EA		3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	28.05	
05 15 16 00-0224	EA		1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	25.06	
05 15 16 00-0225	EA		1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	20.36	
05 15 16 00-0226	EA		1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	26.00	
05 15 16 00-0227	EA		1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	34.94	
05 15 16 00-0228	EA		1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	26.95	
05 15 16 00-0229	EA		1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	42.35	
05 15 16 00-0230	EA		1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	37.53	
05 15 16 00-0231	EA		1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	34.43	
05 15 16 00-0232	EA		1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	40.18	
05 15 16 00-0233	EA		5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	40.83	
05 15 16 00-0234	EA		5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	36.57	
05 15 16 00-0235	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	45.55	
05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	51.97	
05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	59.67	
05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	49.65	
05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	49.50	
05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	50.50	
05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	55.65	
05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	59.91	
05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	69.66	
05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	91.75	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0002	LF		1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.28	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0003	LF		3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.35	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0004	LF		1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.47	0.09
			<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0005	LF		5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.61	0.10
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0006	LF		3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.76	0.10
			<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0008	LF		1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.53	0.09
			<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0009	LF		5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.62	0.10
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0010	LF		3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.72	0.10
			<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0011	LF		1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.91	0.10
			<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0012	LF		5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.39	0.10
			<i>For >500, Deduct</i>	-0.22	
05 15 19 00-0013	LF		3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	2.09	0.21
			<i>For >500, Deduct</i>	-0.34	
05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0015	LF		1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.28	0.07
			<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0016	LF		3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.35	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0017	LF		1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.47	0.09
			<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0018	LF		5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.61	0.10
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0019	LF		3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.76	0.10
			<i>For >500, Deduct</i>	-0.11	
05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)					
05 15 19 00-0021	LF		1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.53	0.09
			<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0022	LF		5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.62	0.10
			<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0023	LF		3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.72	0.10
			<i>For >500, Deduct</i>	-0.11	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 19 00-0024	LF		1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.91	0.10
			<i>For >500, Deduct</i>	-0.15	
05 15 19 00-0025	LF		5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.39	0.10
			<i>For >500, Deduct</i>	-0.22	
05 15 19 00-0026	LF		3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	2.09	0.10
			<i>For >500, Deduct</i>	-0.34	

05 20 Metal Joists ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing ^(05 20)**05 21 19 Open Web Steel Joist Framing** ^(05 21)

05 21 19 00-0001	TON		H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging.....	2,774.07	178.06
			<i>For Welded Cross Bridging, Add</i>	222.58	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	243.86	
05 21 19 00-0002	TON		H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging.....	2,546.47	166.93
			<i>For Welded Cross Bridging, Add</i>	197.84	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	226.44	
05 21 19 00-0003	TON		LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging.....	3,076.32	166.93
			<i>For Welded Cross Bridging, Add</i>	205.45	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	286.98	
05 21 19 00-0004	TON		DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging.....	3,501.47	166.93
			<i>For Welded Cross Bridging, Add</i>	205.45	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	338.00	
05 21 19 00-0005	TON		CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging	3,080.26	166.93
			<i>For Welded Cross Bridging, Add</i>	222.58	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	280.60	
05 21 19 00-0006	TON		SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging	3,873.48	166.93
			<i>For Welded Cross Bridging, Add</i>	205.45	
			<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	382.64	

05 30 Metal Decking ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 31 Steel Decking ^(05 30)**05 31 13 Steel Floor Decking** ^(05 31)

Note: Floor or roof decking

05 31 13 00-0001 Open Ribbed Galvanized Steel Deck ^(05 31 13)

05 31 13 00-0002	SF		1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	2.75	
			<i>For Painted, Deduct</i>	-0.11	
			<i>For Perforated Or Slotted, Add</i>	0.11	
			<i>For Site Installed Insulation Between Ribs, Add</i>	0.73	
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 500, Add</i>	0.45	
			<i>For >500 To 1,500, Add</i>	0.15	
05 31 13 00-0003	SF		1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	3.14	
			<i>For Painted, Deduct</i>	-0.12	
			<i>For Perforated Or Slotted, Add</i>	0.12	
			<i>For Site Installed Insulation Between Ribs, Add</i>	0.84	
			<i>For Up To 100, Add</i>	0.94	
			<i>For >100 To 500, Add</i>	0.52	
			<i>For >500 To 1,500, Add</i>	0.17	
05 31 13 00-0004	SF		1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	3.93	
			<i>For Painted, Deduct</i>	-0.16	
			<i>For Perforated Or Slotted, Add</i>	0.16	
			<i>For Site Installed Insulation Between Ribs, Add</i>	1.05	
			<i>For Up To 100, Add</i>	1.14	
			<i>For >100 To 500, Add</i>	0.64	
			<i>For >500 To 1,500, Add</i>	0.21	
05 31 13 00-0005	SF		1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	3.02	
			<i>For Painted, Deduct</i>	-0.12	
			<i>For Perforated Or Slotted, Add</i>	0.12	
			<i>For Site Installed Insulation Between Ribs, Add</i>	0.80	
			<i>For Up To 100, Add</i>	0.90	
			<i>For >100 To 500, Add</i>	0.50	
			<i>For >500 To 1,500, Add</i>	0.17	
05 31 13 00-0006	SF		1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	3.48	
			<i>For Painted, Deduct</i>	-0.14	
			<i>For Perforated Or Slotted, Add</i>	0.14	
			<i>For Site Installed Insulation Between Ribs, Add</i>	0.93	
			<i>For Up To 100, Add</i>	1.03	
			<i>For >100 To 500, Add</i>	0.58	
			<i>For >500 To 1,500, Add</i>	0.19	
05 31 13 00-0007	SF		1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	4.36	
			<i>For Painted, Deduct</i>	-0.17	
			<i>For Perforated Or Slotted, Add</i>	0.17	
			<i>For Site Installed Insulation Between Ribs, Add</i>	1.16	
			<i>For Up To 100, Add</i>	1.27	
			<i>For >100 To 500, Add</i>	0.72	
			<i>For >500 To 1,500, Add</i>	0.23	



	Metals	05
	Metal Decking	05 30
	Steel Decking	05 31

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0008 SF 2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	3.42	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Site Installed Insulation Between Ribs, Add	0.91	
For Up To 100, Add	0.97	
For >100 To 500, Add	0.55	
For >500 To 1,500, Add	0.18	
05 31 13 00-0009 SF 2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	3.97	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Site Installed Insulation Between Ribs, Add	1.05	
For Up To 100, Add	1.12	
For >100 To 500, Add	0.64	
For >500 To 1,500, Add	0.20	
05 31 13 00-0010 SF 2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	4.87	
For Painted, Deduct	-0.20	
For Perforated Or Slotted, Add	0.20	
For Site Installed Insulation Between Ribs, Add	1.29	
For Up To 100, Add	1.30	
For >100 To 500, Add	0.76	
For >500 To 1,500, Add	0.23	
05 31 13 00-0011 SF 2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	6.12	
For Painted, Deduct	-0.26	
For Perforated Or Slotted, Add	0.26	
For Site Installed Insulation Between Ribs, Add	1.60	
For Up To 100, Add	1.50	
For >100 To 500, Add	0.91	
For >500 To 1,500, Add	0.25	
05 31 13 00-0012 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	3.81	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Site Installed Insulation Between Ribs, Add	1.01	
For Up To 100, Add	1.04	
For >100 To 500, Add	0.60	
For >500 To 1,500, Add	0.18	
05 31 13 00-0013 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	4.44	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Site Installed Insulation Between Ribs, Add	1.17	
For Up To 100, Add	1.19	
For >100 To 500, Add	0.69	
For >500 To 1,500, Add	0.21	
05 31 13 00-0014 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	5.54	
For Painted, Deduct	-0.23	
For Perforated Or Slotted, Add	0.23	
For Site Installed Insulation Between Ribs, Add	1.46	
For Up To 100, Add	1.48	
For >100 To 500, Add	0.86	
For >500 To 1,500, Add	0.26	
05 31 13 00-0015 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	6.97	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Site Installed Insulation Between Ribs, Add	1.84	
For Up To 100, Add	1.82	
For >100 To 500, Add	1.07	
For >500 To 1,500, Add	0.31	
05 31 13 00-0016 SF 4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	10.22	
For Painted, Deduct	-0.45	
For Perforated Or Slotted, Add	0.45	
For Site Installed Insulation Between Ribs, Add	2.64	
For Up To 100, Add	2.04	
For >100 To 500, Add	1.36	
For >500 To 1,500, Add	0.28	
05 31 13 00-0017 SF 4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	12.58	
For Painted, Deduct	-0.58	
For Perforated Or Slotted, Add	0.58	
For Site Installed Insulation Between Ribs, Add	3.22	
For Up To 100, Add	2.19	
For >100 To 500, Add	1.57	
For >500 To 1,500, Add	0.26	
05 31 13 00-0018 SF 6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	12.68	
For Painted, Deduct	-0.53	
For Perforated Or Slotted, Add	0.53	
For Site Installed Insulation Between Ribs, Add	3.32	
For Up To 100, Add	3.08	
For >100 To 500, Add	1.87	
For >500 To 1,500, Add	0.50	
05 31 13 00-0019 SF 6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	12.28	
For Painted, Deduct	-0.55	
For Perforated Or Slotted, Add	0.55	
For Site Installed Insulation Between Ribs, Add	3.16	
For Up To 100, Add	2.35	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.31	

05	Metals
05 30	Metal Decking
05 31	Steel Decking



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31	13 00-0020	SF	6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	15.33	
			<i>For Painted, Deduct</i>	-0.69	
			<i>For Perforated Or Slotted, Add</i>	0.69	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.95	
			<i>For Up To 100, Add</i>	2.90	
			<i>For >100 To 500, Add</i>	1.99	
			<i>For >500 To 1,500, Add</i>	0.38	
05 31	13 00-0021	SF	7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	13.57	
			<i>For Painted, Deduct</i>	-0.61	
			<i>For Perforated Or Slotted, Add</i>	0.61	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.50	
			<i>For Up To 100, Add</i>	2.59	
			<i>For >100 To 500, Add</i>	1.77	
			<i>For >500 To 1,500, Add</i>	0.34	
05 31	13 00-0022	SF	7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	16.91	
			<i>For Painted, Deduct</i>	-0.76	
			<i>For Perforated Or Slotted, Add</i>	0.76	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.35	
			<i>For Up To 100, Add</i>	3.19	
			<i>For >100 To 500, Add</i>	2.19	
			<i>For >500 To 1,500, Add</i>	0.42	
05 31	13 00-0023		Cellular Galvanized Steel Deck <small>(05 31 13)</small>		
			Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31	13 00-0024	SF	1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	8.99	
			<i>For Painted, Deduct</i>	-0.40	
			<i>For Perforated Or Slotted, Add</i>	0.40	
			<i>For Insulated Cells, Add</i>	1.78	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.33	
			<i>For Up To 100, Add</i>	1.85	
			<i>For >100 To 500, Add</i>	1.22	
			<i>For >500 To 1,500, Add</i>	0.27	
05 31	13 00-0025	SF	1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	9.80	
			<i>For Painted, Deduct</i>	-0.42	
			<i>For Perforated Or Slotted, Add</i>	0.42	
			<i>For Insulated Cells, Add</i>	1.89	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.56	
			<i>For Up To 100, Add</i>	2.24	
			<i>For >100 To 500, Add</i>	1.40	
			<i>For >500 To 1,500, Add</i>	0.35	
05 31	13 00-0026	SF	1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	11.01	
			<i>For Painted, Deduct</i>	-0.50	
			<i>For Perforated Or Slotted, Add</i>	0.50	
			<i>For Insulated Cells, Add</i>	2.23	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.83	
			<i>For Up To 100, Add</i>	2.10	
			<i>For >100 To 500, Add</i>	1.43	
			<i>For >500 To 1,500, Add</i>	0.28	
05 31	13 00-0027	SF	1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	11.94	
			<i>For Painted, Deduct</i>	-0.52	
			<i>For Perforated Or Slotted, Add</i>	0.52	
			<i>For Insulated Cells, Add</i>	2.36	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.10	
			<i>For Up To 100, Add</i>	2.52	
			<i>For >100 To 500, Add</i>	1.64	
			<i>For >500 To 1,500, Add</i>	0.37	
05 31	13 00-0028	SF	3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	12.61	
			<i>For Painted, Deduct</i>	-0.56	
			<i>For Perforated Or Slotted, Add</i>	0.56	
			<i>For Insulated Cells, Add</i>	2.54	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.25	
			<i>For Up To 100, Add</i>	2.45	
			<i>For >100 To 500, Add</i>	1.66	
			<i>For >500 To 1,500, Add</i>	0.33	
05 31	13 00-0029	SF	3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	15.06	
			<i>For Painted, Deduct</i>	-0.68	
			<i>For Perforated Or Slotted, Add</i>	0.68	
			<i>For Insulated Cells, Add</i>	3.04	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.88	
			<i>For Up To 100, Add</i>	2.89	
			<i>For >100 To 500, Add</i>	1.97	
			<i>For >500 To 1,500, Add</i>	0.39	
05 31	13 00-0030	SF	3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	16.90	
			<i>For Painted, Deduct</i>	-0.76	
			<i>For Perforated Or Slotted, Add</i>	0.76	
			<i>For Insulated Cells, Add</i>	3.43	
			<i>For Site Installed Insulation Between Ribs, Add</i>	4.35	
			<i>For Up To 100, Add</i>	3.19	
			<i>For >100 To 500, Add</i>	2.19	
			<i>For >500 To 1,500, Add</i>	0.42	



	Metals	05
	Metal Decking	05 30
	Steel Decking	05 31

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0031 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	18.26	
For Painted, Deduct	-0.82	
For Perforated Or Slotted, Add	0.82	
For Insulated Cells, Add	3.71	
For Site Installed Insulation Between Ribs, Add	4.70	
For Up To 100, Add	3.44	
For >100 To 500, Add	2.36	
For >500 To 1,500, Add	0.45	
05 31 13 00-0032 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	19.49	
For Painted, Deduct	-0.91	
For Perforated Or Slotted, Add	0.91	
For Insulated Cells, Add	4.08	
For Site Installed Insulation Between Ribs, Add	4.97	
For Up To 100, Add	3.16	
For >100 To 500, Add	2.35	
For >500 To 1,500, Add	0.34	
05 31 13 00-0033 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	20.74	
For Painted, Deduct	-0.96	
For Perforated Or Slotted, Add	0.96	
For Insulated Cells, Add	4.31	
For Site Installed Insulation Between Ribs, Add	5.30	
For Up To 100, Add	3.49	
For >100 To 500, Add	2.55	
For >500 To 1,500, Add	0.39	
05 31 13 00-0034 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	21.93	
For Painted, Deduct	-1.01	
For Perforated Or Slotted, Add	1.01	
For Insulated Cells, Add	4.55	
For Site Installed Insulation Between Ribs, Add	5.61	
For Up To 100, Add	3.72	
For >100 To 500, Add	2.70	
For >500 To 1,500, Add	0.43	
05 31 13 00-0035 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	23.39	
For Painted, Deduct	-1.08	
For Perforated Or Slotted, Add	1.08	
For Insulated Cells, Add	4.85	
For Site Installed Insulation Between Ribs, Add	5.98	
For Up To 100, Add	3.98	
For >100 To 500, Add	2.89	
For >500 To 1,500, Add	0.46	
05 31 23 Steel Roof Decking <small>(05 31)</small>		
See CSI section 05 31 13 00-0000 for Steel floor or roof decking.		
05 31 33 Steel Form Decking <small>(05 31)</small>		
05 31 33 00-0001 Open Ribbed Galvanized Steel Form Deck <small>(05 31 33)</small>		
05 31 33 00-0002 SF 9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.52	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.04	
For >100 To 500, Add	0.52	
For >500 To 1,500, Add	0.22	
05 31 33 00-0003 SF 9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.68	
For Painted, Deduct	-0.09	
For Perforated Or Slotted, Add	0.09	
For Up To 100, Add	1.11	
For >100 To 500, Add	0.55	
For >500 To 1,500, Add	0.23	
05 31 33 00-0004 SF 9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.97	
For Painted, Deduct	-0.09	
For Perforated Or Slotted, Add	0.09	
For Up To 100, Add	1.27	
For >100 To 500, Add	0.62	
For >500 To 1,500, Add	0.27	
05 31 33 00-0005 SF 9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.22	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.43	
For >100 To 500, Add	0.69	
For >500 To 1,500, Add	0.31	
05 31 33 00-0006 SF 15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.02	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.14	
For >100 To 500, Add	0.58	
For >500 To 1,500, Add	0.23	
05 31 33 00-0007 SF 15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.18	
For Painted, Deduct	-0.11	
For Perforated Or Slotted, Add	0.11	
For Up To 100, Add	1.21	
For >100 To 500, Add	0.62	
For >500 To 1,500, Add	0.25	

05	Metals
05 30	Metal Decking
05 31	Steel Decking



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 33 00-0008	SF		15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.35	
			<i>For Painted, Deduct</i>	-0.11	
			<i>For Perforated Or Slotted, Add</i>	0.11	
			<i>For Up To 100, Add</i>	1.31	
			<i>For >100 To 500, Add</i>	0.66	
			<i>For >500 To 1,500, Add</i>	0.27	
05 31 33 00-0009	SF		15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.58	
			<i>For Painted, Deduct</i>	-0.12	
			<i>For Perforated Or Slotted, Add</i>	0.12	
			<i>For Up To 100, Add</i>	1.47	
			<i>For >100 To 500, Add</i>	0.73	
			<i>For >500 To 1,500, Add</i>	0.31	
05 31 33 00-0010	SF		1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.78	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.53	
			<i>For >100 To 500, Add</i>	0.76	
			<i>For >500 To 1,500, Add</i>	0.32	
05 31 33 00-0011	SF		1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.10	
			<i>For Painted, Deduct</i>	-0.14	
			<i>For Perforated Or Slotted, Add</i>	0.14	
			<i>For Up To 100, Add</i>	1.60	
			<i>For >100 To 500, Add</i>	0.81	
			<i>For >500 To 1,500, Add</i>	0.33	
05 31 33 00-0012	SF		1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.70	
			<i>For Painted, Deduct</i>	-0.16	
			<i>For Perforated Or Slotted, Add</i>	0.16	
			<i>For Up To 100, Add</i>	1.75	
			<i>For >100 To 500, Add</i>	0.90	
			<i>For >500 To 1,500, Add</i>	0.36	
05 31 33 00-0013	SF		1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.21	
			<i>For Painted, Deduct</i>	-0.18	
			<i>For Perforated Or Slotted, Add</i>	0.18	
			<i>For Up To 100, Add</i>	1.98	
			<i>For >100 To 500, Add</i>	1.01	
			<i>For >500 To 1,500, Add</i>	0.41	

05 36 Composite Metal Decking (05 30)05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

05 36 00 00-0002	SF		1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.81	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.53	
			<i>For >100 To 500, Add</i>	0.77	
			<i>For >500 To 1,500, Add</i>	0.32	
05 36 00 00-0003	SF		1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.07	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.69	
			<i>For >100 To 500, Add</i>	0.83	
			<i>For >500 To 1,500, Add</i>	0.36	
05 36 00 00-0004	SF		1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.58	
			<i>For Painted, Deduct</i>	-0.14	
			<i>For Perforated Or Slotted, Add</i>	0.14	
			<i>For Up To 100, Add</i>	2.05	
			<i>For >100 To 500, Add</i>	0.99	
			<i>For >500 To 1,500, Add</i>	0.44	
05 36 00 00-0005	SF		1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.01	
			<i>For Painted, Deduct</i>	-0.15	
			<i>For Perforated Or Slotted, Add</i>	0.15	
			<i>For Up To 100, Add</i>	2.40	
			<i>For >100 To 500, Add</i>	1.13	
			<i>For >500 To 1,500, Add</i>	0.53	
05 36 00 00-0006	SF		2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.07	
			<i>For Painted, Deduct</i>	-0.13	
			<i>For Perforated Or Slotted, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.69	
			<i>For >100 To 500, Add</i>	0.83	
			<i>For >500 To 1,500, Add</i>	0.36	
05 36 00 00-0007	SF		2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.41	
			<i>For Painted, Deduct</i>	-0.14	
			<i>For Perforated Or Slotted, Add</i>	0.14	
			<i>For Up To 100, Add</i>	1.85	
			<i>For >100 To 500, Add</i>	0.91	
			<i>For >500 To 1,500, Add</i>	0.39	
05 36 00 00-0008	SF		2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.90	
			<i>For Painted, Deduct</i>	-0.15	
			<i>For Perforated Or Slotted, Add</i>	0.15	
			<i>For Up To 100, Add</i>	2.21	
			<i>For >100 To 500, Add</i>	1.06	
			<i>For >500 To 1,500, Add</i>	0.48	



Metals	05
Metal Decking	05 30
Composite Metal Decking	05 36

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0009 SF 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.37	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	2.57	
For >100 To 500, Add	1.22	
For >500 To 1,500, Add	0.57	
05 36 00 00-0010 SF 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.28	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	1.75	
For >100 To 500, Add	0.87	
For >500 To 1,500, Add	0.37	
05 36 00 00-0011 SF 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.60	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	1.96	
For >100 To 500, Add	0.96	
For >500 To 1,500, Add	0.42	
05 36 00 00-0012 SF 3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.17	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	2.37	
For >100 To 500, Add	1.14	
For >500 To 1,500, Add	0.52	
05 36 00 00-0013 SF 3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.77	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.78	
For >100 To 500, Add	1.31	
For >500 To 1,500, Add	0.61	
05 36 00 00-0014 Composite Cellular Galvanized Steel Deck <small>(05 36)</small>		
<p>Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.</p>		
05 36 00 00-0015 SF 1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	6.98	
For Painted, Deduct	-0.23	
For Perforated Or Slotted, Add	0.23	
For Insulated Cells, Add	1.05	
For Up To 100, Add	2.78	
For >100 To 500, Add	1.39	
For >500 To 1,500, Add	0.58	
05 36 00 00-0016 SF 1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	7.46	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.10	
For Up To 100, Add	3.04	
For >100 To 500, Add	1.51	
For >500 To 1,500, Add	0.64	
05 36 00 00-0017 SF 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.56	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.10	
For Up To 100, Add	3.14	
For >100 To 500, Add	1.55	
For >500 To 1,500, Add	0.66	
05 36 00 00-0018 SF 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.04	
For Painted, Deduct	-0.25	
For Perforated Or Slotted, Add	0.25	
For Insulated Cells, Add	1.15	
For Up To 100, Add	3.46	
For >100 To 500, Add	1.69	
For >500 To 1,500, Add	0.74	
05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	8.62	
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Insulated Cells, Add	1.22	
For Up To 100, Add	3.73	
For >100 To 500, Add	1.82	
For >500 To 1,500, Add	0.80	
05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.72	
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Insulated Cells, Add	1.22	
For Up To 100, Add	3.83	
For >100 To 500, Add	1.86	
For >500 To 1,500, Add	0.82	
05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.20	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	4.15	
For >100 To 500, Add	2.00	
For >500 To 1,500, Add	0.90	

05 Metals

05 30 Metal Decking

05 36 Composite Metal Decking



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0022	SF		2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	7.21	
			<i>For Painted, Deduct</i>	-0.24	
			<i>For Perforated Or Slotted, Add</i>	0.24	
			<i>For Insulated Cells, Add</i>	1.07	
			<i>For Up To 100, Add</i>	2.93	
			<i>For >100 To 500, Add</i>	1.46	
			<i>For >500 To 1,500, Add</i>	0.61	
05 36 00 00-0023	SF		2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	7.62	
			<i>For Painted, Deduct</i>	-0.25	
			<i>For Perforated Or Slotted, Add</i>	0.25	
			<i>For Insulated Cells, Add</i>	1.12	
			<i>For Up To 100, Add</i>	3.15	
			<i>For >100 To 500, Add</i>	1.56	
			<i>For >500 To 1,500, Add</i>	0.66	
05 36 00 00-0024	SF		2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	7.71	
			<i>For Painted, Deduct</i>	-0.25	
			<i>For Perforated Or Slotted, Add</i>	0.25	
			<i>For Insulated Cells, Add</i>	1.12	
			<i>For Up To 100, Add</i>	3.24	
			<i>For >100 To 500, Add</i>	1.59	
			<i>For >500 To 1,500, Add</i>	0.69	
05 36 00 00-0025	SF		2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	8.28	
			<i>For Painted, Deduct</i>	-0.26	
			<i>For Perforated Or Slotted, Add</i>	0.26	
			<i>For Insulated Cells, Add</i>	1.18	
			<i>For Up To 100, Add</i>	3.56	
			<i>For >100 To 500, Add</i>	1.74	
			<i>For >500 To 1,500, Add</i>	0.76	
05 36 00 00-0026	SF		2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	8.78	
			<i>For Painted, Deduct</i>	-0.27	
			<i>For Perforated Or Slotted, Add</i>	0.27	
			<i>For Insulated Cells, Add</i>	1.24	
			<i>For Up To 100, Add</i>	3.84	
			<i>For >100 To 500, Add</i>	1.87	
			<i>For >500 To 1,500, Add</i>	0.82	
05 36 00 00-0027	SF		2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck	8.92	
			<i>For Painted, Deduct</i>	-0.27	
			<i>For Perforated Or Slotted, Add</i>	0.27	
			<i>For Insulated Cells, Add</i>	1.24	
			<i>For Up To 100, Add</i>	3.98	
			<i>For >100 To 500, Add</i>	1.92	
			<i>For >500 To 1,500, Add</i>	0.86	
05 36 00 00-0028	SF		2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck	9.41	
			<i>For Painted, Deduct</i>	-0.29	
			<i>For Perforated Or Slotted, Add</i>	0.29	
			<i>For Insulated Cells, Add</i>	1.29	
			<i>For Up To 100, Add</i>	4.25	
			<i>For >100 To 500, Add</i>	2.05	
			<i>For >500 To 1,500, Add</i>	0.92	
05 36 00 00-0029	SF		3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck	7.24	
			<i>For Painted, Deduct</i>	-0.24	
			<i>For Perforated Or Slotted, Add</i>	0.24	
			<i>For Insulated Cells, Add</i>	1.08	
			<i>For Up To 100, Add</i>	2.93	
			<i>For >100 To 500, Add</i>	1.46	
			<i>For >500 To 1,500, Add</i>	0.61	
05 36 00 00-0030	SF		3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck	7.67	
			<i>For Painted, Deduct</i>	-0.25	
			<i>For Perforated Or Slotted, Add</i>	0.25	
			<i>For Insulated Cells, Add</i>	1.12	
			<i>For Up To 100, Add</i>	3.20	
			<i>For >100 To 500, Add</i>	1.58	
			<i>For >500 To 1,500, Add</i>	0.68	
05 36 00 00-0031	SF		3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck	7.82	
			<i>For Painted, Deduct</i>	-0.25	
			<i>For Perforated Or Slotted, Add</i>	0.25	
			<i>For Insulated Cells, Add</i>	1.12	
			<i>For Up To 100, Add</i>	3.35	
			<i>For >100 To 500, Add</i>	1.64	
			<i>For >500 To 1,500, Add</i>	0.71	
05 36 00 00-0032	SF		3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck	8.37	
			<i>For Painted, Deduct</i>	-0.26	
			<i>For Perforated Or Slotted, Add</i>	0.26	
			<i>For Insulated Cells, Add</i>	1.19	
			<i>For Up To 100, Add</i>	3.62	
			<i>For >100 To 500, Add</i>	1.76	
			<i>For >500 To 1,500, Add</i>	0.77	
05 36 00 00-0033	SF		3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck	8.91	
			<i>For Painted, Deduct</i>	-0.28	
			<i>For Perforated Or Slotted, Add</i>	0.28	
			<i>For Insulated Cells, Add</i>	1.26	
			<i>For Up To 100, Add</i>	3.89	
			<i>For >100 To 500, Add</i>	1.89	
			<i>For >500 To 1,500, Add</i>	0.83	



Metals	05	05
Metal Decking	05 30	
Composite Metal Decking	05 36	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.12	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.26	
For Up To 100, Add	4.10	
For >100 To 500, Add	1.97	
For >500 To 1,500, Add	0.89	
05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.51	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.29	
For Up To 100, Add	4.35	
For >100 To 500, Add	2.09	
For >500 To 1,500, Add	0.95	
05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)		
05 36 00 00-0037 SF 1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	5.28	
05 36 00 00-0038 SF 1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	4.35	
05 36 00 00-0039 SF 1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	3.62	
05 36 00 00-0040 SF 1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	3.13	
05 36 00 00-0041 SF 1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	5.81	
05 36 00 00-0042 SF 1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	4.74	
05 36 00 00-0043 SF 1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	3.94	
05 36 00 00-0044 SF 1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	3.41	
05 36 00 00-0045 SF 3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular	6.71	
05 36 00 00-0046 SF 3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular	5.39	
05 36 00 00-0047 SF 3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular	4.53	
05 36 00 00-0048 SF 3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular	4.10	

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0002 SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.99	0.99
For Walls >10' High, Add	1.00	
For Curved Wall, Add	0.69	
For Up To 200, Add	1.46	
For >200 To 500, Add	0.73	
For 12" On Center, Add	0.88	
For 24" On Center, Deduct	-0.88	
05 41 00 00-0003 SF 3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.57	0.99
For Walls >10' High, Add	1.11	
For Curved Wall, Add	0.72	
For Up To 200, Add	1.60	
For >200 To 500, Add	0.80	
For 12" On Center, Add	0.99	
For 24" On Center, Deduct	-0.99	
05 41 00 00-0004 SF 4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.81	0.99
For Walls >10' High, Add	1.16	
For Curved Wall, Add	0.75	
For Up To 200, Add	1.66	
For >200 To 500, Add	0.83	
For 12" On Center, Add	1.04	
For 24" On Center, Deduct	-1.04	
05 41 00 00-0005 SF 6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.38	1.10
For Walls >10' High, Add	1.48	
For Curved Wall, Add	0.79	
For Up To 200, Add	2.00	
For >200 To 500, Add	1.00	
For 12" On Center, Add	1.35	
For 24" On Center, Deduct	-1.35	
05 41 00 00-0006 SF 8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.24	1.21
For Walls >10' High, Add	1.65	
For Curved Wall, Add	0.82	
For Up To 200, Add	2.19	
For >200 To 500, Add	1.10	
For 12" On Center, Add	1.51	
For 24" On Center, Deduct	-1.51	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.36	0.99
			<i>For Walls >10' High, Add</i>	1.07	
			<i>For Curved Wall, Add</i>	0.72	
			<i>For Up To 200, Add</i>	1.55	
			<i>For >200 To 500, Add</i>	0.78	
			<i>For 12" On Center, Add</i>	0.95	
			<i>For 24" On Center, Deduct</i>	-0.95	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	6.19	1.00
			<i>For Walls >10' High, Add</i>	1.24	
			<i>For Curved Wall, Add</i>	0.76	
			<i>For Up To 200, Add</i>	1.74	
			<i>For >200 To 500, Add</i>	0.87	
			<i>For 12" On Center, Add</i>	1.11	
			<i>For 24" On Center, Deduct</i>	-1.11	
05 41 00 00-0010	SF		4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.54	1.00
			<i>For Walls >10' High, Add</i>	1.31	
			<i>For Curved Wall, Add</i>	0.79	
			<i>For Up To 200, Add</i>	1.83	
			<i>For >200 To 500, Add</i>	0.92	
			<i>For 12" On Center, Add</i>	1.18	
			<i>For 24" On Center, Deduct</i>	-1.18	
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.26	1.21
			<i>For Walls >10' High, Add</i>	1.65	
			<i>For Curved Wall, Add</i>	0.83	
			<i>For Up To 200, Add</i>	2.20	
			<i>For >200 To 500, Add</i>	1.10	
			<i>For 12" On Center, Add</i>	1.51	
			<i>For 24" On Center, Deduct</i>	-1.51	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.11	1.31
			<i>For Walls >10' High, Add</i>	1.82	
			<i>For Curved Wall, Add</i>	0.87	
			<i>For Up To 200, Add</i>	2.40	
			<i>For >200 To 500, Add</i>	1.20	
			<i>For 12" On Center, Add</i>	1.68	
			<i>For 24" On Center, Deduct</i>	-1.68	

05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.37	1.37
			<i>For Walls >10' High, Add</i>	1.47	
			<i>For Curved Wall, Add</i>	0.91	
			<i>For Up To 200, Add</i>	2.08	
			<i>For >200 To 500, Add</i>	1.04	
			<i>For 12" On Center, Add</i>	1.32	
			<i>For 24" On Center, Deduct</i>	-1.32	
05 41 00 00-0015	SF		4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.58	1.39
			<i>For Walls >10' High, Add</i>	1.52	
			<i>For Curved Wall, Add</i>	0.93	
			<i>For Up To 200, Add</i>	2.14	
			<i>For >200 To 500, Add</i>	1.07	
			<i>For 12" On Center, Add</i>	1.36	
			<i>For 24" On Center, Deduct</i>	-1.36	
05 41 00 00-0016	SF		6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.50	1.47
			<i>For Walls >10' High, Add</i>	1.90	
			<i>For Curved Wall, Add</i>	0.98	
			<i>For Up To 200, Add</i>	2.55	
			<i>For >200 To 500, Add</i>	1.28	
			<i>For 12" On Center, Add</i>	1.74	
			<i>For 24" On Center, Deduct</i>	-1.74	
05 41 00 00-0017	SF		8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	10.42	1.53
			<i>For Walls >10' High, Add</i>	2.08	
			<i>For Curved Wall, Add</i>	1.02	
			<i>For Up To 200, Add</i>	2.76	
			<i>For >200 To 500, Add</i>	1.38	
			<i>For 12" On Center, Add</i>	1.91	
			<i>For 24" On Center, Deduct</i>	-1.91	

05 42 Cold-Formed Metal Joist Framing (05 40)

05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)

Note: Floor or roof joist framing

05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)

05 42 13 00-0002	LF		5-1/2" - 20 Gauge Steel Joists	10.51	2.35
05 42 13 00-0003	LF		6" - 20 Gauge Steel Joists	11.46	2.96
05 42 13 00-0004	LF		7-1/4" - 20 Gauge Steel Joists	12.40	3.24
05 42 13 00-0005	LF		8" - 20 Gauge Steel Joists	13.91	3.45

05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)

05 42 13 00-0007	LF		5-1/2" - 18 Gauge Steel Joists	11.71	2.61
05 42 13 00-0008	LF		6" - 18 Gauge Steel Joists	12.79	3.28
05 42 13 00-0009	LF		7-1/4" - 18 Gauge Steel Joists	13.88	3.60



Metals	05
Cold-Formed Metal Framing	05 40
Cold-Formed Metal Joist Framing	05 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	14.30	3.83
05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	15.01	3.63
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	15.86	3.83
05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	17.90	3.83
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	19.44	4.03
05 42 13 00-0017 Steel Joists, 12 Gauge (05 42 13)		
05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	21.31	4.21
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	23.31	4.43
05 42 13 00-0020 Steel Joists, 10 Gauge (05 42 13)		
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	24.79	4.63
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	27.24	4.88
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	28.31	5.10
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	31.20	5.37
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43)		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	10.28	2.36
For Galvanizing, Add		0.95
For Powder Coating, Add		0.83
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	10.55	2.36
For Galvanizing, Add		0.99
For Powder Coating, Add		0.87
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	10.96	2.36
For Galvanizing, Add		1.06
For Powder Coating, Add		0.94
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	9.74	2.36
For Galvanizing, Add		0.85
For Powder Coating, Add		0.75
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	8.56	2.36
For Galvanizing, Add		0.65
For Powder Coating, Add		0.58
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	25.26	2.36
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	30.28	2.36
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	29.03	2.36
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	36.78	2.36
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	41.53	2.36
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel	5.22	0.52
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	6.84	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	7.41	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	7.84	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	10.16	

05 Metals**05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 43 00 00-0024	Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)			
	Note: Includes hex bolt.			
05 43 00 00-0025	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.65	
05 43 00 00-0026	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.57	
05 43 00 00-0027	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.88	
05 43 00 00-0028	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	37.16	
05 43 00 00-0029	Lock Nuts Without Spring For Unistrut Channel (05 43)			
	Note: Includes hex bolt.			
05 43 00 00-0030	Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)			
	Note: Includes hex bolt.			
05 43 00 00-0031	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	6.86	
05 43 00 00-0032	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	7.49	
05 43 00 00-0033	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	7.87	
05 43 00 00-0034	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	10.83	
05 43 00 00-0035	Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)			
	Note: Includes hex bolt.			
05 43 00 00-0036	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	10.60	
05 43 00 00-0037	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	12.71	
05 43 00 00-0038	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	13.81	
05 43 00 00-0039	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	36.21	
05 43 00 00-0040	Beam Clamp For Unistrut Channel (05 43)			
05 43 00 00-0041	EA	1-5/8" Channel, P2675 Unistrut Beam Clamp.....	20.26	7.83
05 43 00 00-0042	EA	1-5/8" Channel, P2676 Unistrut Beam Clamp.....	24.52	7.83
05 43 00 00-0043	EA	Add For Unistrut Swivel Nut, P2676.....	2.32	
05 43 00 00-0044	Beam Clamp Clevis Hangers For Unistrut Channel (05 43)			
05 43 00 00-0045	EA	Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674).....	21.74	7.83
05 43 00 00-0046	EA	Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677).....	25.13	7.83
05 43 00 00-0047	EA	Add For Unistrut Swivel Nut.....	2.32	
05 43 00 00-0048	EA	6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut.....	147.47	10.44
05 43 00 00-0049	Pipe And Rigid Conduit Clamps (05 43)			
05 43 00 00-0050	Pipe And Rigid Conduit Clamps (05 43 00 00-0049)			
	Note: Includes stainless steel (316) hardware.			
05 43 00 00-0051	PR	1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.08	2.60
05 43 00 00-0052	PR	3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.26	2.60
05 43 00 00-0053	PR	1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	9.54	3.15
05 43 00 00-0054	PR	1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	10.11	3.42
05 43 00 00-0055	PR	1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	12.78	3.83
05 43 00 00-0056	PR	2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	12.78	3.83
05 43 00 00-0057	PR	2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	19.68	6.43
05 43 00 00-0058	PR	3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	20.03	6.43
05 43 00 00-0059	PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	21.43	7.11
05 43 00 00-0060	PR	4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	23.71	7.67
05 43 00 00-0061	Pipe And Rigid Conduit Clamps (05 43 00 00-0049)			
	Note: Includes nylon hardware.			
05 43 00 00-0062	PR	1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	9.12	2.60
05 43 00 00-0063	PR	3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	9.35	2.60
05 43 00 00-0064	PR	1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	10.63	3.15
05 43 00 00-0065	PR	1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	11.24	3.42
05 43 00 00-0066	PR	1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	14.56	3.83
05 43 00 00-0067	PR	2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	14.56	3.83
05 43 00 00-0068	PR	2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	22.08	6.43
05 43 00 00-0069	PR	3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	22.56	6.43
05 43 00 00-0070	PR	3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	23.99	7.11
05 43 00 00-0071	PR	4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	26.63	7.67

05 45 Metal Support Assemblies (05 40)**05 45 13 Mechanical Metal Supports** (05 45)

See CSI section 23 05 29 00-0000 for metal supports.

05 45 16 Electrical Metal Supports (05 45)

See CSI section 26 05 29 00-0000 for metal supports.

05 50 Metal Fabrications (05)**05 51 Metal Stairs** (05 50)



Metals	05	05
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 13 Metal Pan Stairs <small>(05 51)</small>		
Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail. See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing <small>(05 51 13)</small>		
Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002 RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair.....	698.47	30.44
<i>For Closed Riser, Add</i>		
	79.64	
05 51 13 00-0003 RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	794.47	35.51
<i>For Closed Riser, Add</i>		
	90.47	
05 51 13 00-0004 RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair.....	886.67	41.60
<i>For Closed Riser, Add</i>		
	100.69	
05 51 13 00-0005 SF Concrete Filled Steel Pan Landing.....	82.05	5.07
Note: Conventional shape.		
05 51 19 Metal Grating Stairs <small>(05 51)</small>		
Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing <small>(05 51 19)</small>		
Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002 RSR 3'-6" Wide Open Steel Grating Tread Metal Stair.....	349.10	40.58
<i>For Closed Riser, Add</i>		
	40.92	
<i>For Galvanized Steel, Add</i>		
	66.98	
05 51 19 00-0003 RSR 4'-0" Wide Open Steel Grating Tread Metal Stair.....	374.03	46.67
<i>For Closed Riser, Add</i>		
	43.49	
<i>For Galvanized Steel, Add</i>		
	70.17	
05 51 19 00-0004 RSR 5'-0" Wide Open Steel Grating Tread Metal Stair.....	415.78	54.79
<i>For Closed Riser, Add</i>		
	48.03	
<i>For Galvanized Steel, Add</i>		
	76.55	
05 51 19 00-0005 SF Steel Grating Landing With Framing And 2 Pipe Handrail.....	66.22	5.07
Note: Conventional shape.		
	11.48	
05 51 33 Metal Ladders <small>(05 51)</small>		
Note: Includes factory prime.		
05 51 33 13 Vertical Metal Ladders <small>(05 51 33)</small>		
05 51 33 13-0001 Vertical Ladders <small>(05 51 33 13)</small>		
Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002 VLF 20" Wide Vertical Steel Ladder Primed.....	87.81	12.17
<i>For Galvanized Steel, Add</i>		
	12.40	
<i>For Aluminum, Add</i>		
	24.81	
05 51 33 13-0003 VLF 24" Wide Vertical Steel Ladder Primed.....	100.38	12.17
<i>For Galvanized Steel, Add</i>		
	15.55	
<i>For Aluminum, Add</i>		
	31.09	
05 51 33 13-0004 VLF 20" Wide Vertical Steel Caged Ladder Primed.....	208.79	20.29
<i>For Galvanized Steel, Add</i>		
	36.03	
<i>For Aluminum, Add</i>		
	72.06	
05 51 33 13-0005 VLF 24" Wide Vertical Steel Caged Ladder Primed.....	233.93	20.29
<i>For Galvanized Steel, Add</i>		
	42.32	
<i>For Aluminum, Add</i>		
	84.63	
05 51 33 13-0006 Vertical Ladders Options <small>(05 51 33 13)</small>		
05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed.....	306.27	38.05
Note: Extends 42" above landing surface. Includes mounting bracket.		
<i>For Galvanized Steel, Add</i>		
	57.55	
<i>For Aluminum, Add</i>		
	115.09	
05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed.....	335.05	40.58
Note: Extends 42" above landing surface. Includes mounting bracket.		
<i>For Galvanized Steel, Add</i>		
	63.47	
<i>For Aluminum, Add</i>		
	126.94	
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp.....	448.49	12.68
05 51 33 13-0010 EA 6' Security Ladder Guard.....	969.67	76.09
05 51 33 13-0011 EA 8' Security Ladder Guard.....	1,159.20	88.77
05 51 33 13-0012 EA Safety Chain Attachment.....	176.00	
05 51 33 13-0013 Welded Steel Ladder Cages <small>(05 51 33 13)</small>		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages <small>(05 51 33 13-0013)</small>		
05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,792.76	152.19
05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,945.75	157.26
05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,067.69	162.33
05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,197.90	167.41
05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,274.28	172.48
05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,398.29	177.55
05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,507.79	182.63
05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,650.42	187.70
05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,788.91	192.78
05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,902.57	197.85



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0025	EA		17-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,041.06	202.91
05 51 33 13-0026	EA		18-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,175.41	207.99
05 51 33 13-0027	EA		19-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,307.70	213.06
05 51 33 13-0028	EA		20-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,547.63	218.13
05 51 33 13-0029	EA		21-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,619.86	223.21
05 51 33 13-0030	EA		22-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,743.86	228.28
05 51 33 13-0031	EA		23-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,857.52	233.35
05 51 33 13-0032	EA		24-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,962.89	238.43
05 51 33 13-0033	EA		25-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	4,196.60	243.50
05 51 33 13-0034	EA		26-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	4,322.68	248.57
05 51 33 13-0035	EA		27-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	4,440.47	253.65
05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages (05 51 33 13-0013)					
05 51 33 13-0037	EA		7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,240.55	152.19
05 51 33 13-0038	EA		8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,529.32	157.26
05 51 33 13-0039	EA		9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,009.75	162.33
05 51 33 13-0040	EA		10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,247.14	167.41
05 51 33 13-0041	EA		11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,446.98	172.48
05 51 33 13-0042	EA		12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,712.03	177.55
05 51 33 13-0043	EA		13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,188.51	182.63
05 51 33 13-0044	EA		14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,429.84	187.70
05 51 33 13-0045	EA		15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,679.08	192.78
05 51 33 13-0046	EA		16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,952.04	197.85
05 51 33 13-0047	EA		17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,438.41	202.91
05 51 33 13-0048	EA		18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,681.71	207.99
05 51 33 13-0049	EA		19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,913.18	213.06
05 51 33 13-0050	EA		20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,296.79	218.13
05 51 33 13-0051	EA		21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,727.81	223.21
05 51 33 13-0052	EA		22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	8,967.17	228.28
05 51 33 13-0053	EA		23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	9,212.46	233.35
05 51 33 13-0054	EA		24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	9,441.95	238.43
05 51 33 13-0055	EA		25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,031.06	243.50
05 51 33 13-0056	EA		26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,260.54	248.57
05 51 33 13-0057	EA		27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	10,495.95	253.65
05 51 33 16 Inclined Metal Ladders (05 51 33)					
05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)					
Note: Includes factory prime.					
05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	261.82	50.73
For Aluminum, Add				80.18	
05 51 33 23 Alternating Tread Ladders (05 51 33)					
05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)					
05 51 33 23-0002	EA		4' Vertical Height Aluminum Alternating Tread Ladder	2,113.45	152.19
For Stainless Steel, Add				196.80	
For Primed Steel, Deduct				-191.42	
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	2,419.89	161.32
For Stainless Steel, Add				240.90	
For Primed Steel, Deduct				-223.30	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	2,685.76	161.32
For Stainless Steel, Add				288.67	
For Primed Steel, Deduct				-241.55	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	3,066.96	202.72
For Stainless Steel, Add				347.24	
For Primed Steel, Deduct				-256.61	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	3,367.27	209.90
For Stainless Steel, Add				388.99	
For Primed Steel, Deduct				-298.53	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	3,602.20	209.90
For Stainless Steel, Add				453.51	
For Primed Steel, Deduct				-293.53	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder.....	3,955.96	234.14
For Stainless Steel, Add				497.40	
For Primed Steel, Deduct				-327.55	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder.....	4,219.17	234.14
For Stainless Steel, Add				546.61	
For Primed Steel, Deduct				-347.07	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder.....	4,423.96	234.14
For Stainless Steel, Add				623.99	
For Primed Steel, Deduct				-346.65	

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0001 Welded Steel Pipe Railing <small>(05 52 13)</small> Note: Includes field welds and touch-up of welds.		
05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small> Note: Includes factory primed posts and one rail.		
05 52 13 00-0003 LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	34.86	10.15
For Schedule 80 Handrail, Add	4.12	
For 11 Gauge A513 Steel Tubing, Deduct	-3.21	
For 12 Gauge A513 Steel Tubing, Deduct	-3.64	
For 14 Gauge A513 Steel Tubing, Deduct	-4.81	
For 16 Gauge A513 Steel Tubing, Deduct	-5.68	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	6.12	
For Aluminum, Clear Anodized Finish, Add	9.47	
For Aluminum, Dark Anodized Finish, Add	10.93	
For Galvanizing, Add	5.83	
For Wrought Iron, Add	3.49	
For Solid Steel Rails, Add	6.97	
For 304 Stainless Steel, Add	46.62	
For 316 Stainless Steel, Add	52.45	
For 2" Wheel Guard, Add	1.38	
For 4" High Kick Plate, Add	1.82	
For 6" High Kick Plate, Add	2.91	
For Curved Rail, Add	14.83	
For Mounting On Stairs, Add	10.46	
For Mounting On Slopes, Add	3.49	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	12.36	
For Nylon Coating, Add	2.19	
05 52 13 00-0004 LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	37.37	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-3.76	
For 12 Gauge A513 Steel Tubing, Deduct	-4.27	
For 14 Gauge A513 Steel Tubing, Deduct	-5.64	
For 16 Gauge A513 Steel Tubing, Deduct	-6.66	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	7.17	
For Aluminum, Clear Anodized Finish, Add	11.10	
For Aluminum, Dark Anodized Finish, Add	12.81	
For Galvanizing, Add	6.83	
For Wrought Iron, Add	3.74	
For Solid Steel Rails, Add	7.47	
For 304 Stainless Steel, Add	54.66	
For 316 Stainless Steel, Add	61.49	
For 2" Wheel Guard, Add	1.62	
For 4" High Kick Plate, Add	2.14	
For 6" High Kick Plate, Add	3.42	
For Curved Rail, Add	16.34	
For Mounting On Stairs, Add	11.21	
For Mounting On Slopes, Add	3.74	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	13.61	
For Nylon Coating, Add	2.56	
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	39.88	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-4.31	
For 12 Gauge A513 Steel Tubing, Deduct	-4.90	
For 14 Gauge A513 Steel Tubing, Deduct	-6.46	
For 16 Gauge A513 Steel Tubing, Deduct	-7.64	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	8.23	
For Aluminum, Clear Anodized Finish, Add	12.73	
For Aluminum, Dark Anodized Finish, Add	14.69	
For Galvanizing, Add	7.84	
For Wrought Iron, Add	3.99	
For Solid Steel Rails, Add	7.98	
For 304 Stainless Steel, Add	62.69	
For 316 Stainless Steel, Add	70.52	
For 2" Wheel Guard, Add	1.86	
For 4" High Kick Plate, Add	2.45	
For 6" High Kick Plate, Add	3.92	
For Curved Rail, Add	17.84	
For Mounting On Stairs, Add	11.96	
For Mounting On Slopes, Add	3.99	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	14.87	
For Nylon Coating, Add	2.94	

05	Metals
05 50	Metal Fabrications
05 52	Metal Railings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006	LF		2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	44.24	10.15
			<i>For Schedule 80 Handrail, Add</i>	7.23	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.27	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.99	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.90	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-9.34	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.55	
			<i>For Aluminum, Satin Finish, Add</i>	10.06	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	15.57	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	17.96	
			<i>For Galvanizing, Add</i>	9.58	
			<i>For Wrought Iron, Add</i>	4.42	
			<i>For Solid Steel Rails, Add</i>	8.85	
			<i>For 304 Stainless Steel, Add</i>	76.64	
			<i>For 316 Stainless Steel, Add</i>	86.22	
			<i>For 2" Wheel Guard, Add</i>	2.28	
			<i>For 4" High Kick Plate, Add</i>	2.99	
			<i>For 6" High Kick Plate, Add</i>	4.79	
			<i>For Curved Rail, Add</i>	20.46	
			<i>For Mounting On Stairs, Add</i>	13.27	
			<i>For Mounting On Slopes, Add</i>	4.42	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.53	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.54	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	17.05	
			<i>For Nylon Coating, Add</i>	3.59	
05 52 13 00-0007	LF		2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	49.45	10.15
			<i>For Schedule 80 Handrail, Add</i>	8.14	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.42	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.29	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.62	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.37	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.55	
			<i>For Aluminum, Satin Finish, Add</i>	12.25	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	18.95	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	21.87	
			<i>For Galvanizing, Add</i>	11.66	
			<i>For Wrought Iron, Add</i>	4.95	
			<i>For Solid Steel Rails, Add</i>	9.89	
			<i>For 304 Stainless Steel, Add</i>	93.31	
			<i>For 316 Stainless Steel, Add</i>	104.98	
			<i>For 2" Wheel Guard, Add</i>	2.77	
			<i>For 4" High Kick Plate, Add</i>	3.65	
			<i>For 6" High Kick Plate, Add</i>	5.83	
			<i>For Curved Rail, Add</i>	23.58	
			<i>For Mounting On Stairs, Add</i>	14.84	
			<i>For Mounting On Slopes, Add</i>	4.95	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.53	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.54	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	19.65	
			<i>For Nylon Coating, Add</i>	4.37	
05 52 13 00-0008			Two Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
			Note: Includes factory primed posts and two rails.		
05 52 13 00-0009	LF		1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	45.80	10.15
			<i>For Schedule 80 Handrail, Add</i>	4.12	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.61	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.38	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.42	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-9.95	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.55	
			<i>For Aluminum, Satin Finish, Add</i>	10.71	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	16.58	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	19.13	
			<i>For Galvanizing, Add</i>	10.20	
			<i>For Wrought Iron, Add</i>	4.58	
			<i>For Solid Steel Rails, Add</i>	9.16	
			<i>For 304 Stainless Steel, Add</i>	81.63	
			<i>For 316 Stainless Steel, Add</i>	91.84	
			<i>For 2" Wheel Guard, Add</i>	2.42	
			<i>For 4" High Kick Plate, Add</i>	3.19	
			<i>For 6" High Kick Plate, Add</i>	5.10	
			<i>For Curved Rail, Add</i>	21.39	
			<i>For Mounting On Stairs, Add</i>	13.74	
			<i>For Mounting On Slopes, Add</i>	4.58	
			<i>For Post Base Flange With Screws, Add Per Post</i>	19.53	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.54	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	17.83	
			<i>For Nylon Coating, Add</i>	3.83	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	50.19	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-6.58	
For 12 Gauge A513 Steel Tubing, Deduct	-7.48	
For 14 Gauge A513 Steel Tubing, Deduct	-9.87	
For 16 Gauge A513 Steel Tubing, Deduct	-11.66	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	12.56	
For Aluminum, Clear Anodized Finish, Add	19.44	
For Aluminum, Dark Anodized Finish, Add	22.43	
For Galvanizing, Add	11.96	
For Wrought Iron, Add	5.02	
For Solid Steel Rails, Add	10.04	
For 304 Stainless Steel, Add	95.68	
For 316 Stainless Steel, Add	107.64	
For 2" Wheel Guard, Add	2.84	
For 4" High Kick Plate, Add	3.74	
For 6" High Kick Plate, Add	5.98	
For Curved Rail, Add	24.03	
For Mounting On Stairs, Add	15.06	
For Mounting On Slopes, Add	5.02	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	20.02	
For Nylon Coating, Add	4.49	
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	54.58	10.15
For Schedule 80 Handrail, Add	6.34	
For 11 Gauge A513 Steel Tubing, Deduct	-7.54	
For 12 Gauge A513 Steel Tubing, Deduct	-8.57	
For 14 Gauge A513 Steel Tubing, Deduct	-11.32	
For 16 Gauge A513 Steel Tubing, Deduct	-13.37	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	14.40	
For Aluminum, Clear Anodized Finish, Add	22.29	
For Aluminum, Dark Anodized Finish, Add	25.72	
For Galvanizing, Add	13.72	
For Wrought Iron, Add	5.46	
For Solid Steel Rails, Add	10.92	
For 304 Stainless Steel, Add	109.73	
For 316 Stainless Steel, Add	123.44	
For 2" Wheel Guard, Add	3.26	
For 4" High Kick Plate, Add	4.29	
For 6" High Kick Plate, Add	6.86	
For Curved Rail, Add	26.66	
For Mounting On Stairs, Add	16.37	
For Mounting On Slopes, Add	5.46	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	22.22	
For Nylon Coating, Add	5.14	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	62.20	10.15
For Schedule 80 Handrail, Add	7.23	
For 11 Gauge A513 Steel Tubing, Deduct	-9.22	
For 12 Gauge A513 Steel Tubing, Deduct	-10.48	
For 14 Gauge A513 Steel Tubing, Deduct	-13.83	
For 16 Gauge A513 Steel Tubing, Deduct	-16.34	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	17.60	
For Aluminum, Clear Anodized Finish, Add	27.24	
For Aluminum, Dark Anodized Finish, Add	31.43	
For Galvanizing, Add	16.76	
For Wrought Iron, Add	6.22	
For Solid Steel Rails, Add	12.44	
For 304 Stainless Steel, Add	134.11	
For 316 Stainless Steel, Add	150.88	
For 2" Wheel Guard, Add	3.98	
For 4" High Kick Plate, Add	5.24	
For 6" High Kick Plate, Add	8.38	
For Curved Rail, Add	31.23	
For Mounting On Stairs, Add	18.66	
For Mounting On Slopes, Add	6.22	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	26.03	
For Nylon Coating, Add	6.29	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	71.34	10.15
For Schedule 80 Handrail, Add	8.14	
For 11 Gauge A513 Steel Tubing, Deduct	-11.23	
For 12 Gauge A513 Steel Tubing, Deduct	-12.76	
For 14 Gauge A513 Steel Tubing, Deduct	-16.85	
For 16 Gauge A513 Steel Tubing, Deduct	-19.91	
For Additional Off Set Handrail, ADA Attachment, Add	12.55	
For Aluminum, Satin Finish, Add	21.44	
For Aluminum, Clear Anodized Finish, Add	33.18	
For Aluminum, Dark Anodized Finish, Add	38.29	
For Galvanizing, Add	20.42	
For Wrought Iron, Add	7.13	
For Solid Steel Rails, Add	14.27	
For 304 Stainless Steel, Add	163.36	
For 316 Stainless Steel, Add	183.78	
For 2" Wheel Guard, Add	4.85	
For 4" High Kick Plate, Add	6.38	
For 6" High Kick Plate, Add	10.21	
For Curved Rail, Add	36.72	
For Mounting On Stairs, Add	21.40	
For Mounting On Slopes, Add	7.13	
For Post Base Flange With Screws, Add Per Post	19.53	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.54	
For Custom Design Or Shapes (Square Tops, etc), Add	30.60	
For Nylon Coating, Add	7.66	
05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and three rails.		
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	71.21	12.17
For Schedule 80 Handrail, Add	6.01	
For 11 Gauge A513 Steel Tubing, Deduct	-10.31	
For 12 Gauge A513 Steel Tubing, Deduct	-11.72	
For 14 Gauge A513 Steel Tubing, Deduct	-15.46	
For 16 Gauge A513 Steel Tubing, Deduct	-18.28	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	19.68	
For Aluminum, Clear Anodized Finish, Add	30.46	
For Aluminum, Dark Anodized Finish, Add	35.15	
For Galvanizing, Add	18.74	
For Wrought Iron, Add	7.12	
For Solid Steel Rails, Add	14.24	
For 304 Stainless Steel, Add	149.95	
For 316 Stainless Steel, Add	168.70	
For 2" Wheel Guard, Add	4.45	
For 4" High Kick Plate, Add	5.86	
For 6" High Kick Plate, Add	9.37	
For Curved Rail, Add	35.42	
For Mounting On Stairs, Add	21.36	
For Mounting On Slopes, Add	7.12	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	29.52	
For Nylon Coating, Add	7.03	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	79.28	12.17
For Schedule 80 Handrail, Add	8.97	
For 11 Gauge A513 Steel Tubing, Deduct	-12.08	
For 12 Gauge A513 Steel Tubing, Deduct	-13.73	
For 14 Gauge A513 Steel Tubing, Deduct	-18.13	
For 16 Gauge A513 Steel Tubing, Deduct	-21.42	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	23.07	
For Aluminum, Clear Anodized Finish, Add	35.70	
For Aluminum, Dark Anodized Finish, Add	41.20	
For Galvanizing, Add	21.97	
For Wrought Iron, Add	7.93	
For Solid Steel Rails, Add	15.86	
For 304 Stainless Steel, Add	175.78	
For 316 Stainless Steel, Add	197.75	
For 2" Wheel Guard, Add	5.22	
For 4" High Kick Plate, Add	6.87	
For 6" High Kick Plate, Add	10.99	
For Curved Rail, Add	40.26	
For Mounting On Stairs, Add	23.78	
For Mounting On Slopes, Add	7.93	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	33.55	
For Nylon Coating, Add	8.24	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	87.35	12.17
For Schedule 80 Handrail, Add	8.97	
For 11 Gauge A513 Steel Tubing, Deduct	-13.86	
For 12 Gauge A513 Steel Tubing, Deduct	-15.75	
For 14 Gauge A513 Steel Tubing, Deduct	-20.79	
For 16 Gauge A513 Steel Tubing, Deduct	-24.57	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	26.46	
For Aluminum, Clear Anodized Finish, Add	40.95	
For Aluminum, Dark Anodized Finish, Add	47.25	
For Galvanizing, Add	25.20	
For Wrought Iron, Add	8.74	
For Solid Steel Rails, Add	17.47	
For 304 Stainless Steel, Add	201.60	
For 316 Stainless Steel, Add	226.80	
For 2" Wheel Guard, Add	5.99	
For 4" High Kick Plate, Add	7.88	
For 6" High Kick Plate, Add	12.60	
For Curved Rail, Add	45.11	
For Mounting On Stairs, Add	26.21	
For Mounting On Slopes, Add	8.74	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	37.59	
For Nylon Coating, Add	9.45	
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	101.37	12.17
For Schedule 80 Handrail, Add	10.16	
For 11 Gauge A513 Steel Tubing, Deduct	-16.94	
For 12 Gauge A513 Steel Tubing, Deduct	-19.26	
For 14 Gauge A513 Steel Tubing, Deduct	-25.42	
For 16 Gauge A513 Steel Tubing, Deduct	-30.04	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	32.35	
For Aluminum, Clear Anodized Finish, Add	50.06	
For Aluminum, Dark Anodized Finish, Add	57.77	
For Galvanizing, Add	30.81	
For Wrought Iron, Add	10.14	
For Solid Steel Rails, Add	20.27	
For 304 Stainless Steel, Add	246.46	
For 316 Stainless Steel, Add	277.27	
For 2" Wheel Guard, Add	7.32	
For 4" High Kick Plate, Add	9.63	
For 6" High Kick Plate, Add	15.40	
For Curved Rail, Add	53.52	
For Mounting On Stairs, Add	30.41	
For Mounting On Slopes, Add	10.14	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	44.60	
For Nylon Coating, Add	11.55	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	118.07	12.17
For Schedule 80 Handrail, Add	11.37	
For 11 Gauge A513 Steel Tubing, Deduct	-20.62	
For 12 Gauge A513 Steel Tubing, Deduct	-23.43	
For 14 Gauge A513 Steel Tubing, Deduct	-30.93	
For 16 Gauge A513 Steel Tubing, Deduct	-36.55	
For Additional Off Set Handrail, ADA Attachment, Add	13.36	
For Aluminum, Satin Finish, Add	39.36	
For Aluminum, Clear Anodized Finish, Add	60.92	
For Aluminum, Dark Anodized Finish, Add	70.29	
For Galvanizing, Add	37.49	
For Wrought Iron, Add	11.81	
For Solid Steel Rails, Add	23.61	
For 304 Stainless Steel, Add	299.90	
For 316 Stainless Steel, Add	337.39	
For 2" Wheel Guard, Add	8.90	
For 4" High Kick Plate, Add	11.72	
For 6" High Kick Plate, Add	18.74	
For Curved Rail, Add	63.54	
For Mounting On Stairs, Add	35.42	
For Mounting On Slopes, Add	11.81	
For Post Base Flange With Screws, Add Per Post	19.94	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.15	
For Custom Design Or Shapes (Square Tops, etc), Add	52.95	
For Nylon Coating, Add	14.06	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and four rails.

05	Metals
05 50	Metal Fabrications
05 52	Metal Railings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52	13 00-0021	LF	1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	85.91	14.20
			<i>For Schedule 80 Handrail, Add</i>	8.16	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-12.65	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-14.38	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-18.98	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-22.43	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.17	
			<i>For Aluminum, Satin Finish, Add</i>	24.15	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	37.38	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	43.13	
			<i>For Galvanizing, Add</i>	23.00	
			<i>For Wrought Iron, Add</i>	8.59	
			<i>For Solid Steel Rails, Add</i>	17.18	
			<i>For 304 Stainless Steel, Add</i>	184.03	
			<i>For 316 Stainless Steel, Add</i>	207.04	
			<i>For 2" Wheel Guard, Add</i>	5.46	
			<i>For 4" High Kick Plate, Add</i>	7.19	
			<i>For 6" High Kick Plate, Add</i>	11.50	
			<i>For Curved Rail, Add</i>	43.03	
			<i>For Mounting On Stairs, Add</i>	25.77	
			<i>For Mounting On Slopes, Add</i>	8.59	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.34	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.76	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	35.86	
			<i>For Nylon Coating, Add</i>	8.63	
05 52	13 00-0022	LF	1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	93.08	14.20
			<i>For Schedule 80 Handrail, Add</i>	11.86	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-14.23	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-16.17	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-21.34	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-25.23	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.17	
			<i>For Aluminum, Satin Finish, Add</i>	27.17	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	42.04	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	48.51	
			<i>For Galvanizing, Add</i>	25.87	
			<i>For Wrought Iron, Add</i>	9.31	
			<i>For Solid Steel Rails, Add</i>	18.62	
			<i>For 304 Stainless Steel, Add</i>	206.98	
			<i>For 316 Stainless Steel, Add</i>	232.85	
			<i>For 2" Wheel Guard, Add</i>	6.14	
			<i>For 4" High Kick Plate, Add</i>	8.09	
			<i>For 6" High Kick Plate, Add</i>	12.94	
			<i>For Curved Rail, Add</i>	47.33	
			<i>For Mounting On Stairs, Add</i>	27.92	
			<i>For Mounting On Slopes, Add</i>	9.31	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.34	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.76	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	39.44	
			<i>For Nylon Coating, Add</i>	9.70	
05 52	13 00-0023	LF	1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	100.24	14.20
			<i>For Schedule 80 Handrail, Add</i>	11.86	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-15.80	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-17.96	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-23.71	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-28.02	
			<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	14.17	
			<i>For Aluminum, Satin Finish, Add</i>	30.17	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	46.70	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	53.88	
			<i>For Galvanizing, Add</i>	28.74	
			<i>For Wrought Iron, Add</i>	10.02	
			<i>For Solid Steel Rails, Add</i>	20.05	
			<i>For 304 Stainless Steel, Add</i>	229.89	
			<i>For 316 Stainless Steel, Add</i>	258.62	
			<i>For 2" Wheel Guard, Add</i>	6.82	
			<i>For 4" High Kick Plate, Add</i>	8.98	
			<i>For 6" High Kick Plate, Add</i>	14.37	
			<i>For Curved Rail, Add</i>	51.62	
			<i>For Mounting On Stairs, Add</i>	30.07	
			<i>For Mounting On Slopes, Add</i>	10.02	
			<i>For Post Base Flange With Screws, Add Per Post</i>	20.34	
			<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	30.76	
			<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	43.02	
			<i>For Nylon Coating, Add</i>	10.78	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	116.20	14.20
For Schedule 80 Handrail, Add	13.35	
For 11 Gauge A513 Steel Tubing, Deduct	-19.32	
For 12 Gauge A513 Steel Tubing, Deduct	-21.95	
For 14 Gauge A513 Steel Tubing, Deduct	-28.97	
For 16 Gauge A513 Steel Tubing, Deduct	-34.24	
For Additional Off Set Handrail, ADA Attachment, Add	14.17	
For Aluminum, Satin Finish, Add	36.88	
For Aluminum, Clear Anodized Finish, Add	57.07	
For Aluminum, Dark Anodized Finish, Add	65.85	
For Galvanizing, Add	35.12	
For Wrought Iron, Add	11.62	
For Solid Steel Rails, Add	23.24	
For 304 Stainless Steel, Add	280.96	
For 316 Stainless Steel, Add	316.08	
For 2" Wheel Guard, Add	8.34	
For 4" High Kick Plate, Add	10.98	
For 6" High Kick Plate, Add	17.56	
For Curved Rail, Add	61.20	
For Mounting On Stairs, Add	34.86	
For Mounting On Slopes, Add	11.62	
For Post Base Flange With Screws, Add Per Post	20.34	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
For Custom Design Or Shapes (Square Tops, etc), Add	51.00	
For Nylon Coating, Add	13.17	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	134.90	14.20
For Schedule 80 Handrail, Add	14.86	
For 11 Gauge A513 Steel Tubing, Deduct	-23.43	
For 12 Gauge A513 Steel Tubing, Deduct	-26.63	
For 14 Gauge A513 Steel Tubing, Deduct	-35.15	
For 16 Gauge A513 Steel Tubing, Deduct	-41.54	
For Additional Off Set Handrail, ADA Attachment, Add	14.17	
For Aluminum, Satin Finish, Add	44.73	
For Aluminum, Clear Anodized Finish, Add	69.23	
For Aluminum, Dark Anodized Finish, Add	79.88	
For Galvanizing, Add	42.60	
For Wrought Iron, Add	13.49	
For Solid Steel Rails, Add	26.98	
For 304 Stainless Steel, Add	340.80	
For 316 Stainless Steel, Add	383.40	
For 2" Wheel Guard, Add	10.12	
For 4" High Kick Plate, Add	13.31	
For 6" High Kick Plate, Add	21.30	
For Curved Rail, Add	72.42	
For Mounting On Stairs, Add	40.47	
For Mounting On Slopes, Add	13.49	
For Post Base Flange With Screws, Add Per Post	20.34	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.76	
For Custom Design Or Shapes (Square Tops, etc), Add	60.35	
For Nylon Coating, Add	15.98	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.00	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	12.75	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	13.40	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	22.66	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	11.77	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel.....	12.17	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel.....	13.03	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel.....	26.15	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	5.31	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	10.85	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	14.25	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	21.24	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	34.74	6.09
			<i>For Schedule 80 Handrail, Add</i>	2.30	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.29	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.88	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.44	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.61	
			<i>For Stainless Steel, Add</i>	39.04	
			<i>For Aluminum, Satin Finish, Add</i>	8.20	
			<i>For Curved Rail, Add</i>	10.42	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	12.69	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	14.64	
			<i>For Galvanized Finish, Add</i>	5.86	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	35.37	6.09
			<i>For Schedule 80 Handrail, Add</i>	2.66	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.43	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.04	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.65	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.86	
			<i>For Stainless Steel, Add</i>	40.30	
			<i>For Aluminum, Satin Finish, Add</i>	8.46	
			<i>For Curved Rail, Add</i>	10.61	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.10	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.11	
			<i>For Galvanized Finish, Add</i>	6.05	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	36.00	6.09
			<i>For Schedule 80 Handrail, Add</i>	7.60	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.57	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.20	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.86	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.10	
			<i>For Stainless Steel, Add</i>	41.56	
			<i>For Aluminum, Satin Finish, Add</i>	8.73	
			<i>For Curved Rail, Add</i>	10.80	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	13.51	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	15.59	
			<i>For Galvanized Finish, Add</i>	6.23	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.25	6.09
			<i>For Schedule 80 Handrail, Add</i>	3.34	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.17	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.01	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.25	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.93	
			<i>For Stainless Steel, Add</i>	56.06	
			<i>For Aluminum, Satin Finish, Add</i>	11.77	
			<i>For Curved Rail, Add</i>	12.98	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	18.22	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	21.02	
			<i>For Galvanized Finish, Add</i>	8.41	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	49.23	6.09
			<i>For Schedule 80 Handrail, Add</i>	3.64	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.48	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-8.50	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.22	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-13.26	
			<i>For Stainless Steel, Add</i>	68.02	
			<i>For Aluminum, Satin Finish, Add</i>	14.28	
			<i>For Curved Rail, Add</i>	14.77	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	22.11	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	25.51	
			<i>For Galvanized Finish, Add</i>	10.20	
05 52 13 00-0048			Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
			Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF		1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	42.14	6.39
			<i>For Schedule 80 Handrail, Add</i>	2.30	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.92	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.73	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.88	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.50	
			<i>For Stainless Steel, Add</i>	53.84	
			<i>For Aluminum, Satin Finish, Add</i>	11.31	
			<i>For Curved Rail, Add</i>	12.64	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	17.50	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	20.19	
			<i>For Galvanized Finish, Add</i>	8.08	



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.03	6.39
For Schedule 80 Handrail, Add	2.66	
For 11 Gauge A513 Steel Tubing, Deduct	-6.12	
For 12 Gauge A513 Steel Tubing, Deduct	-6.95	
For 14 Gauge A513 Steel Tubing, Deduct	-9.18	
For 16 Gauge A513 Steel Tubing, Deduct	-10.85	
For Stainless Steel, Add	55.62	
For Aluminum, Satin Finish, Add	11.68	
For Curved Rail, Add	12.91	
For Aluminum, Clear Anodized Finish, Add	18.08	
For Aluminum, Dark Anodized Finish, Add	20.86	
For Galvanized Finish, Add	8.34	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	43.69	6.39
For Schedule 80 Handrail, Add	7.60	
For 11 Gauge A513 Steel Tubing, Deduct	-6.26	
For 12 Gauge A513 Steel Tubing, Deduct	-7.12	
For 14 Gauge A513 Steel Tubing, Deduct	-9.40	
For 16 Gauge A513 Steel Tubing, Deduct	-11.10	
For Stainless Steel, Add	56.94	
For Aluminum, Satin Finish, Add	11.96	
For Curved Rail, Add	13.11	
For Aluminum, Clear Anodized Finish, Add	18.51	
For Aluminum, Dark Anodized Finish, Add	21.35	
For Galvanized Finish, Add	8.54	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	53.80	6.39
For Schedule 80 Handrail, Add	3.34	
For 11 Gauge A513 Steel Tubing, Deduct	-8.49	
For 12 Gauge A513 Steel Tubing, Deduct	-9.65	
For 14 Gauge A513 Steel Tubing, Deduct	-12.73	
For 16 Gauge A513 Steel Tubing, Deduct	-15.05	
For Stainless Steel, Add	77.16	
For Aluminum, Satin Finish, Add	16.20	
For Curved Rail, Add	16.14	
For Aluminum, Clear Anodized Finish, Add	25.08	
For Aluminum, Dark Anodized Finish, Add	28.94	
For Galvanized Finish, Add	11.57	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	60.41	6.39
For Schedule 80 Handrail, Add	3.64	
For 11 Gauge A513 Steel Tubing, Deduct	-9.94	
For 12 Gauge A513 Steel Tubing, Deduct	-11.30	
For 14 Gauge A513 Steel Tubing, Deduct	-14.91	
For 16 Gauge A513 Steel Tubing, Deduct	-17.62	
For Stainless Steel, Add	90.38	
For Aluminum, Satin Finish, Add	18.98	
For Curved Rail, Add	18.12	
For Aluminum, Clear Anodized Finish, Add	29.37	
For Aluminum, Dark Anodized Finish, Add	33.89	
For Galvanized Finish, Add	13.56	
05 52 13 00-0054 Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	22.83	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing.....	29.85	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket.....	56.85	
For Stainless Steel, Add	52.82	
05 53 Metal Gratings (05 50)		
05 53 13 Bar Gratings (05 53)		
05 53 13 00-0001 Welded Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating.....	8.20	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.01	
For 304 Stainless Steel, Add	19.16	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	1.74	
For Crossbars At 2" On-Center, Add	0.64	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.64	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating.....	10.67	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	27.09	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.46	
For Crossbars At 2" On-Center, Add	0.91	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.71	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53	13 00-0005	SF	1" x 1/8" Steel, Welded Grating.....	9.79	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.29	
			For 304 Stainless Steel, Add	24.27	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	2.21	
			For Crossbars At 2" On-Center, Add	0.82	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.68	
05 53	13 00-0006	SF	1" x 3/16" Steel, Welded Grating.....	13.14	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.85	
			For 304 Stainless Steel, Add	35.02	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.19	
			For Crossbars At 2" On-Center, Add	1.18	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.77	
05 53	13 00-0007	SF	1" x 1/4" Steel, Welded Grating.....	16.50	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.43	
			For 304 Stainless Steel, Add	45.81	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.17	
			For Crossbars At 2" On-Center, Add	1.54	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.85	
05 53	13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	11.40	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.56	
			For 304 Stainless Steel, Add	29.44	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	2.68	
			For Crossbars At 2" On-Center, Add	0.99	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.72	
05 53	13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	15.48	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.25	
			For 304 Stainless Steel, Add	42.53	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.87	
			For Crossbars At 2" On-Center, Add	1.43	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.83	
05 53	13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	13.00	1.11
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.83	
			For 304 Stainless Steel, Add	34.57	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	3.14	
			For Crossbars At 2" On-Center, Add	1.16	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.76	
05 53	13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	18.44	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.67	
			For 304 Stainless Steel, Add	50.40	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	4.58	
			For Crossbars At 2" On-Center, Add	1.70	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.23	
05 53	13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	23.54	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	66.77	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.07	
			For Crossbars At 2" On-Center, Add	2.25	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.36	
05 53	13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	20.93	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.09	
			For 304 Stainless Steel, Add	58.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.31	
			For Crossbars At 2" On-Center, Add	1.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	23.26 0.22 3.49 65.87 5.99 2.22 0.16 -2.35	1.37
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	25.73 0.22 3.91 73.80 6.71 2.48 0.16 -2.41	1.37
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	28.07 0.22 4.31 81.31 7.40 2.74 0.16 -2.47	1.37
05 53 13 00-0017			Pressure Locked Grating ^(05 53 13) Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating ^(05 53 13 00-0017) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	14.68 0.22 2.04 23.29 3.64 1.34 -1.81	1.11
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	17.86 0.22 2.56 29.24 4.56 1.69 -1.88	1.11
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	16.04 0.22 2.26 25.84 4.03 1.49 0.16 -1.84	1.11
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 7/16" On-Center, Add For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	21.50 0.22 3.16 36.05 27.94 5.63 2.08 0.16 -1.98	1.11
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	17.86 0.22 2.56 29.24 4.56 1.69 0.16 -1.88	1.11



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....		24.02	1.11
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		3.57	
		For 304 Stainless Steel, Add		40.77	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		6.36	
		For Crossbars At 2" On-Center, Add		2.35	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.04	
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....		19.77	1.11
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		2.88	
		For 304 Stainless Steel, Add		32.82	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		5.12	
		For Crossbars At 2" On-Center, Add		1.89	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-1.93	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....		27.18	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.01	
		For 304 Stainless Steel, Add		45.73	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 7/16" On-Center, Add		35.44	
		For Bearing Bars At 15/16" On-Center, Add		7.14	
		For Crossbars At 2" On-Center, Add		2.64	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.45	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....		29.85	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.45	
		For 304 Stainless Steel, Add		50.72	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		7.92	
		For Crossbars At 2" On-Center, Add		2.93	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.51	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....		32.02	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		4.80	
		For 304 Stainless Steel, Add		54.78	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		8.55	
		For Crossbars At 2" On-Center, Add		3.16	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.57	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....		34.11	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		5.14	
		For 304 Stainless Steel, Add		58.69	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		9.16	
		For Crossbars At 2" On-Center, Add		3.39	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.62	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....		35.91	1.37
		For One Coat Of Shop Applied Paint (Red Or Black), Add		0.22	
		For Galvanized Steel, Add		5.44	
		For 304 Stainless Steel, Add		62.06	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add		9.69	
		For Crossbars At 2" On-Center, Add		3.58	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct		-2.67	
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating <small>(05 53 13 00-0017)</small>			
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.			
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....		17.46	1.11
		For Bearing Bars At 15/16" On-Center, Add		4.45	
		For Crossbars At 2" On-Center, Add		1.64	
		For Set In Place Without Bolting, Deduct		-1.87	
		For Powder Coating, Add		2.28	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....		23.70	1.11
		For Bearing Bars At 15/16" On-Center, Add		6.27	
		For Crossbars At 2" On-Center, Add		2.32	
		For Set In Place Without Bolting, Deduct		-2.03	
		For Powder Coating, Add		3.22	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....		22.36	1.11
		For Bearing Bars At 15/16" On-Center, Add		5.88	
		For Crossbars At 2" On-Center, Add		2.17	
		For Serrated Wear Surface, Add		0.16	
		For Set In Place Without Bolting, Deduct		-2.00	
		For Powder Coating, Add		3.02	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating.....	30.43	1.11
For Bearing Bars At 7/16" On-Center, Add	40.89	
For Bearing Bars At 15/16" On-Center, Add	8.23	
For Crossbars At 2" On-Center, Add	3.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.20	
For Powder Coating, Add	4.23	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating.....	25.91	1.11
For Bearing Bars At 15/16" On-Center, Add	6.91	
For Crossbars At 2" On-Center, Add	2.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.09	
For Powder Coating, Add	3.55	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	34.71	1.11
For Bearing Bars At 15/16" On-Center, Add	9.48	
For Crossbars At 2" On-Center, Add	3.51	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.31	
For Powder Coating, Add	4.87	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating.....	29.25	1.11
For Bearing Bars At 15/16" On-Center, Add	7.89	
For Crossbars At 2" On-Center, Add	2.92	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.17	
For Powder Coating, Add	4.05	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	39.12	1.11
For Bearing Bars At 7/16" On-Center, Add	53.49	
For Bearing Bars At 15/16" On-Center, Add	10.77	
For Crossbars At 2" On-Center, Add	3.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.42	
For Powder Coating, Add	5.53	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating.....	43.35	1.11
For Bearing Bars At 15/16" On-Center, Add	12.01	
For Crossbars At 2" On-Center, Add	4.44	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.52	
For Powder Coating, Add	6.17	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating.....	48.36	1.11
For Bearing Bars At 15/16" On-Center, Add	13.47	
For Crossbars At 2" On-Center, Add	4.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.65	
For Powder Coating, Add	6.92	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating.....	52.28	1.11
For Bearing Bars At 15/16" On-Center, Add	14.61	
For Crossbars At 2" On-Center, Add	5.41	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.75	
For Powder Coating, Add	7.51	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating.....	56.97	1.11
For Bearing Bars At 15/16" On-Center, Add	15.98	
For Crossbars At 2" On-Center, Add	5.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.86	
For Powder Coating, Add	8.21	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating.....	23.44	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.95	
For 304 Stainless Steel, Add	35.17	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.57	
For Crossbars At 2" On-Center, Add	1.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating.....	26.05	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.19	
For 304 Stainless Steel, Add	39.49	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	15.24	
For Crossbars At 2" On-Center, Add	1.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0048	SF		1-1/2" x 3/16" Steel, Swaged Grating.....	28.61	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.38	
			For 304 Stainless Steel, Add	42.89	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	16.56	
			For Crossbars At 2" On-Center, Add	2.07	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.48	
05 53 13 00-0049	SF		1-3/4" x 3/16" Steel, Swaged Grating.....	32.62	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.75	
			For 304 Stainless Steel, Add	49.54	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	19.12	
			For Crossbars At 2" On-Center, Add	2.39	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.58	
05 53 13 00-0050	SF		2" x 3/16" Steel, Swaged Grating.....	36.65	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.12	
			For 304 Stainless Steel, Add	56.22	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	21.70	
			For Crossbars At 2" On-Center, Add	2.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.68	
05 53 13 00-0051	SF		2-1/4" x 3/16" Steel, Swaged Grating.....	40.66	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.49	
			For 304 Stainless Steel, Add	62.87	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	24.27	
			For Crossbars At 2" On-Center, Add	3.03	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.78	
05 53 13 00-0052	SF		2-1/2" x 3/16" Steel, Swaged Grating.....	44.68	1.37
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	69.54	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	26.84	
			For Crossbars At 2" On-Center, Add	3.36	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.88	
05 53 13 00-0053			Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054	SF		1" x 1/8" Aluminum, Swaged Grating.....	20.64	1.11
			For Bearing Bars At 15/16" On-Center, Add	11.78	
			For Crossbars At 2" On-Center, Add	1.47	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-1.95	
			For Powder Coating, Add	2.76	
05 53 13 00-0055	SF		1" x 3/16" Aluminum, Swaged Grating.....	26.80	1.11
			For Bearing Bars At 15/16" On-Center, Add	15.72	
			For Crossbars At 2" On-Center, Add	1.97	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.11	
			For Powder Coating, Add	3.69	
05 53 13 00-0056	SF		1-1/4" x 1/8" Aluminum, Swaged Grating.....	23.41	1.11
			For Bearing Bars At 15/16" On-Center, Add	13.56	
			For Crossbars At 2" On-Center, Add	1.69	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.02	
			For Powder Coating, Add	3.18	
05 53 13 00-0057	SF		1-1/4" x 3/16" Aluminum, Swaged Grating.....	30.94	1.11
			For Bearing Bars At 15/16" On-Center, Add	18.37	
			For Crossbars At 2" On-Center, Add	2.30	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.21	
			For Powder Coating, Add	4.31	
05 53 13 00-0058	SF		1-1/2" x 1/8" Aluminum, Swaged Grating.....	26.69	1.11
			For Bearing Bars At 15/16" On-Center, Add	15.65	
			For Crossbars At 2" On-Center, Add	1.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.11	
			For Powder Coating, Add	3.67	
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating.....	35.38	1.11
			For Bearing Bars At 15/16" On-Center, Add	21.22	
			For Crossbars At 2" On-Center, Add	2.65	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.32	
			For Powder Coating, Add	4.97	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060 SF 1-3/4" x 3/16" Aluminum, Swaged Grating.....	40.50	1.11
For Bearing Bars At 15/16" On-Center, Add	24.49	
For Crossbars At 2" On-Center, Add	3.06	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.45	
For Powder Coating, Add	5.74	
05 53 13 00-0061 SF 2" x 3/16" Aluminum, Swaged Grating.....	45.58	1.11
For Bearing Bars At 15/16" On-Center, Add	27.74	
For Crossbars At 2" On-Center, Add	3.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.58	
For Powder Coating, Add	6.50	
05 53 13 00-0062 SF 2-1/4" x 3/16" Aluminum, Swaged Grating.....	50.70	1.11
For Bearing Bars At 15/16" On-Center, Add	31.02	
For Crossbars At 2" On-Center, Add	3.88	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.71	
For Powder Coating, Add	7.27	
05 53 13 00-0063 SF 2-1/2" x 3/16" Aluminum, Swaged Grating.....	55.78	1.11
For Bearing Bars At 15/16" On-Center, Add	34.27	
For Crossbars At 2" On-Center, Add	4.28	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.83	
For Powder Coating, Add	8.03	
05 53 13 00-0064 Riveted Grating <small>(05 53 13)</small>		
Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065 Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066 SF 3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	43.72	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.99	
For 304 Stainless Steel, Add	35.64	
For 5/8" Clear Opening, Add	14.31	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.53	
05 53 13 00-0067 SF 3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	51.31	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.36	
For 304 Stainless Steel, Add	42.16	
For 5/8" Clear Opening, Add	16.93	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.72	
05 53 13 00-0068 SF 1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	47.21	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.16	
For 304 Stainless Steel, Add	38.64	
For 5/8" Clear Opening, Add	15.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.62	
05 53 13 00-0069 SF 1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	54.21	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.50	
For 304 Stainless Steel, Add	44.65	
For 5/8" Clear Opening, Add	17.93	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.79	
05 53 13 00-0070 SF 1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	50.11	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.30	
For 304 Stainless Steel, Add	41.13	
For 5/8" Clear Opening, Add	16.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69	
05 53 13 00-0071 SF 1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	59.59	1.11
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.75	
For 304 Stainless Steel, Add	49.27	
For 5/8" Clear Opening, Add	19.79	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.93	
05 53 13 00-0072 SF 1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	53.41	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	43.53	
For 5/8" Clear Opening, Add	17.48	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	63.55	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.92	
For 304 Stainless Steel, Add	52.24	
For 5/8" Clear Opening, Add	20.98	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.36	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	68.72	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.17	
For 304 Stainless Steel, Add	56.68	
For 5/8" Clear Opening, Add	22.76	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.49	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	80.27	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.72	
For 304 Stainless Steel, Add	66.60	
For 5/8" Clear Opening, Add	26.75	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.77	
05 53 13 00-0076 SF 2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	84.30	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.91	
For 304 Stainless Steel, Add	70.06	
For 5/8" Clear Opening, Add	28.14	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.87	
05 53 13 00-0077 SF 2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	87.88	1.37
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	73.14	
For 5/8" Clear Opening, Add	29.37	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.96	
05 53 13 00-0078 Aluminum, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079 SF 3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	44.26	1.11
For 5/8" Clear Opening, Add	14.50	
For Powder Coating, Add	6.30	
For Set In Place Without Bolting, Deduct	-2.54	
05 53 13 00-0080 SF 3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	52.58	1.11
For 5/8" Clear Opening, Add	17.37	
For Powder Coating, Add	7.55	
For Set In Place Without Bolting, Deduct	-2.75	
05 53 13 00-0081 SF 1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	48.71	1.11
For 5/8" Clear Opening, Add	16.04	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	6.97	
For Set In Place Without Bolting, Deduct	-2.66	
05 53 13 00-0082 SF 1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	56.83	1.11
For 5/8" Clear Opening, Add	18.84	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.19	
For Set In Place Without Bolting, Deduct	-2.86	
05 53 13 00-0083 SF 1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	54.65	1.11
For 5/8" Clear Opening, Add	18.08	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.86	
For Set In Place Without Bolting, Deduct	-2.80	
05 53 13 00-0084 SF 1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	65.93	1.11
For 5/8" Clear Opening, Add	21.98	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	9.56	
For Set In Place Without Bolting, Deduct	-3.09	
05 53 13 00-0085 SF 1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	58.72	1.11
For 5/8" Clear Opening, Add	19.49	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.47	
For Set In Place Without Bolting, Deduct	-2.91	
05 53 13 00-0086 SF 1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	73.03	1.11
For 5/8" Clear Opening, Add	24.43	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.62	
For Set In Place Without Bolting, Deduct	-3.26	
05 53 13 00-0087 SF 1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	80.54	1.11
For 5/8" Clear Opening, Add	27.02	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	11.75	
For Set In Place Without Bolting, Deduct	-3.45	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53	13 00-0088	SF	2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	95.96 32.34 0.16 14.06 -3.84	1.11
05 53	13 00-0089	SF	2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	104.71 35.36 0.16 15.37 -4.06	1.11
05 53	13 00-0090	SF	2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating..... <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Powder Coating, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	116.44 39.40 0.16 17.13 -4.35	1.11
05 54 Metal Floor Plates (05 50)					
05 54 00 00-0001 Steel Floor Plates (05 54)					
	05 54 00 00-0002	SF	16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	13.88	1.32
	05 54 00 00-0003	SF	14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	15.79	1.32
	05 54 00 00-0004	SF	12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	19.64	1.32
	05 54 00 00-0005	SF	1/8" Steel Raised Or Diamond Pattern Floor Plates.....	26.22	1.42
	05 54 00 00-0006	SF	1/4" Steel Raised Or Diamond Pattern Floor Plates.....	33.13	1.52
05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)					
	05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	24.49 3.34	1.11
	05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	28.10 3.84	1.32
	05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate..... <i>For Powder Coating, Add</i>	31.72 4.33	1.42
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)					
	05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	27.32	1.52
	05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.63	1.73
	05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	42.18	2.03
05 55 Metal Stair Treads and Nosings (05 50)					
05 55 13 Metal Stair Treads (05 55)					
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)					
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.					
	05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	60.15 12.46	6.44
	05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	66.07 13.94	6.44
	05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	71.97 15.42	6.44
	05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	77.91 16.90	6.44
	05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread..... <i>For 3/8" Thick, Add</i>	83.79 18.37	6.44
05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)					
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.					
	05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	83.11	6.44
	05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	91.87	6.44
	05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	100.66	6.44
	05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	109.43	6.44
	05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	118.22	6.44
05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)					
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.					
	05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	32.47	6.44
	05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	37.83	6.44
	05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	40.19	6.44
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)					
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.					

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0018	LF		8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....47.27 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0019	LF		9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....47.71 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0020	LF		11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....57.36 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0021	LF		12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....65.81 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0022	LF		15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread .....76.83 <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	3.72 2.79	6.44
05 55 13 00-0023			Stair Landing Treads <small>(05 55 13)</small>		
05 55 13 00-0024			Abrasive Cast Aluminum Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025	SF		5/16" Thick, Abrasive Cast Aluminum Landing Treads .....83.79 <i>For 3/8" Thick, Add</i>	18.37	6.44
05 55 13 00-0026			Abrasive Cast Iron Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027	SF		3/8" Thick, Abrasive Cast Iron Landing Treads.....118.22		6.44
05 55 13 00-0028			Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029	SF		9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads .....77.80 <i>For Epoxy Sealed For Corrosive Environment, Add</i>	3.72	6.44
05 55 13 00-0030			Open Cast Iron Stair Tread <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031	RSR		3'-6" Wide, Open Cast Iron Stair Tread.....481.17 <i>For Closed Riser, Add</i>	41.00	40.58
05 55 13 00-0032	RSR		4'-0" Wide, Open Cast Iron Stair Tread.....543.26 <i>For Closed Riser, Add</i>	46.14	46.67
05 55 13 00-0033	RSR		5'-0" Wide, Open Cast Iron Stair Tread.....600.39 <i>For Closed Riser, Add</i>	50.92	54.79
05 55 16 Metal Stair Nosings <small>(05 55)</small>					
05 55 16 00-0001			Abrasive Cast Aluminum Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002	LF		3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....25.80 <i>For 3/8" Thick, Add</i>	4.69	4.39
05 55 16 00-0003	LF		4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....31.51 <i>For 3/8" Thick, Add</i>	6.12	4.39
05 55 16 00-0004	LF		6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing .....44.25 <i>For 3/8" Thick, Add</i>	9.31	4.39
05 55 16 00-0005			Abrasive Cast Iron Nosings <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006	LF		3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....29.97 <i>For 3/8" Thick, Add</i>	5.74	4.39
05 55 16 00-0007	LF		4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....37.00 <i>For 3/8" Thick, Add</i>	7.49	4.39
05 55 16 00-0008	LF		6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....50.91 <i>For 3/8" Thick, Add</i>	10.97	4.39
05 55 16 00-0009			Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010	LF		1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....21.92		4.39
05 55 16 00-0011	LF		3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....24.68		4.39
05 55 16 00-0012	LF		4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....26.78		4.39
05 55 16 00-0013	LF		6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....33.32		4.39
05 55 16 00-0014	LF		1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing .....22.67		4.39
05 55 16 00-0015	LF		3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....25.01		4.39
05 55 16 00-0016	LF		4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....27.34		4.39
05 55 16 00-0017	LF		3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....25.93		4.39



Metals	05	05
Metal Fabrications	05 50	
Metal Castings	05 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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05 56 Metal Castings (05 50)

05 56 00 00-0001 Castings (05 56)

05 56 00 00-0002	LB	Up To 150 LB, Miscellaneous Castings, Light Section	3.92	0.50
05 56 00 00-0003	LB	>150 LB, Miscellaneous Castings, Heavy Section.....	6.43	0.40

05 58 Formed Metal Fabrications (05 50)

05 58 16 Formed Metal Enclosures (05 58)

05 58 16 00-0001 Drip Pan (05 58 16)

05 58 16 00-0002	SF	Stainless Steel Drip Pan	94.50	7.01
05 58 16 00-0003	SF	Galvanized Steel Drip Pan.....	93.39	7.01
05 58 16 00-0004	SF	Aluminum Drip Pan	65.84	5.60
05 58 16 00-0005	SF	Plastic Drip Pan	18.56	4.91

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001 Protective Guard Rails (05 58 23)

Note: Includes painted finish.

05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Armor Guard.

05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0004	EA	1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	173.11	21.08
05 58 23 00-0005	EA	2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	202.70	21.08
05 58 23 00-0006	EA	3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	230.61	21.08
05 58 23 00-0007	EA	4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	260.21	21.08
05 58 23 00-0008	EA	5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	288.28	21.08
05 58 23 00-0009	EA	6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	324.67	21.08
05 58 23 00-0010	EA	7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	349.46	21.08
05 58 23 00-0011	EA	8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	387.86	21.08
05 58 23 00-0012	EA	9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	413.05	21.08
05 58 23 00-0013	EA	10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	431.04	21.08

05 58 23 00-0014 Posts For 2-Rib Guard Rails (05 58 23 00-0002)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0015	EA	12" Height, Single Rail Post For 2-Rib Guard Rails	350.19	43.92
05 58 23 00-0016	EA	42" Height, Triple Rail Post For 2-Rib Guard Rails	452.96	43.92

05 58 23 00-0017 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001)

Note: Steel King Steel Guard.

05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	190.94	21.08
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	210.62	21.08
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	235.17	21.08
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	258.13	21.08
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	284.68	21.08
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	297.48	21.08
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	328.27	21.08
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	354.26	21.08
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	381.86	21.08
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	409.85	21.08

05 58 23 00-0029 Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners and lift-out mounting plate.

05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	279.48	21.08
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	301.08	21.08
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	323.47	21.08
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	349.46	21.08
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	375.46	21.08
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	396.65	21.08
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	421.05	21.08
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	448.64	21.08
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	478.23	21.08
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	504.23	21.08

05 58 23 00-0040 Posts For 3-Rib Guard Rails (05 58 23 00-0017)

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	309.24	43.92
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails	392.58	43.92

05 Metals**05 50 Metal Fabrications****05 58 Formed Metal Fabrications**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 58 23 00-0043			All-Welded, Protective Guards (05 58 23) Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044			All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045	EA		36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	403.85	58.56
05 58 23 00-0046	EA		48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	423.85	58.56
05 58 23 00-0047	EA		36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	435.44	58.56
05 58 23 00-0048	EA		48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	452.64	58.56
05 58 23 00-0049	EA		36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	448.64	58.56
05 58 23 00-0050	EA		48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	469.84	58.56
05 58 23 00-0051	EA		36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	475.83	58.56
05 58 23 00-0052	EA		48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	482.63	58.56
05 58 23 00-0053	EA		48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	515.02	58.56
05 58 23 00-0054			Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055	EA		24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	527.82	58.56
05 58 23 00-0056	EA		30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	551.82	58.56
05 58 23 00-0057	EA		24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	561.81	58.56
05 58 23 00-0058	EA		30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	611.00	58.56
05 58 23 00-0059			Warehouse Safety Bollards (05 58 23) Note: Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0060	EA		24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	255.50	43.92
05 58 23 00-0061	EA		36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	295.01	43.92
05 58 23 00-0062	EA		42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	336.84	43.92
05 58 23 00-0063	EA		36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	348.28	43.92
05 58 23 00-0064	EA		42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	374.68	43.92
05 59			Metal Specialties (05 59)		
05 59 65			Metal Chain (05 59)		
05 59 65 00-0001			Alloy Steel Chain, Self Colored, Cut Length (05 59 65) Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
05 59 65 00-0002	LF		3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	4.80	0.98
			<i>For Plastic Dipped, Add</i>	0.43	
05 59 65 00-0003	LF		1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.78	1.31
			<i>For Plastic Dipped, Add</i>	0.63	
05 59 65 00-0004	LF		3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	10.84	2.61
			<i>For Plastic Dipped, Add</i>	0.84	
05 59 65 00-0005	LF		1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	17.46	4.40
			<i>For Plastic Dipped, Add</i>	1.30	
05 59 65 00-0006	LF		5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	29.46	7.44
			<i>For Plastic Dipped, Add</i>	2.19	
05 59 65 00-0007	LF		3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	41.35	10.44
			<i>For Plastic Dipped, Add</i>	3.07	
05 59 65 00-0008	LF		7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	56.11	13.06
			<i>For Plastic Dipped, Add</i>	4.50	
05 59 65 00-0009	LF		1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	80.81	17.40
			<i>For Plastic Dipped, Add</i>	6.90	
05 59 65 00-0010	LF		1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	130.94	26.11
			<i>For Plastic Dipped, Add</i>	11.81	
05 59 69			Metal Panels (05 59)		
05 59 69 00-0001			Woven And Welded Wire Cloth (05 59 69) Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0002			Plain Steel Woven And Welded Wire Cloth Panels (05 59 69 00-0001)		
05 59 69 00-0003			2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0004	SF		0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels.....	8.10	2.79
			<i>For Up To 2, Add</i>	2.36	
			<i>For >2 To 6, Add</i>	1.37	
			<i>For >15 To 40, Deduct</i>	-0.22	
			<i>For >40, Deduct</i>	-0.66	
			<i>For Galvanized, Add</i>	1.93	
			<i>For Aluminum, Add</i>	2.63	
			<i>For 304 Stainless Steel, Add</i>	10.51	
			<i>For 316 Stainless Steel, Add</i>	12.05	
05 59 69 00-0005	SF		0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels.....	8.70	2.90
			<i>For Up To 2, Add</i>	2.52	
			<i>For >2 To 6, Add</i>	1.45	
			<i>For >15 To 40, Deduct</i>	-0.24	
			<i>For >40, Deduct</i>	-0.72	
			<i>For Galvanized, Add</i>	2.12	
			<i>For Aluminum, Add</i>	2.89	
			<i>For 304 Stainless Steel, Add</i>	11.57	
			<i>For 316 Stainless Steel, Add</i>	13.26	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0006 SF 0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels	9.27	3.22
For Up To 2, Add	2.71	
For >2 To 6, Add	1.57	
For >15 To 40, Deduct	-0.25	
For >40, Deduct	-0.75	
For Galvanized, Add	2.19	
For Aluminum, Add	2.99	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	13.70	
05 59 69 00-0007 SF 0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels	9.77	3.36
For Up To 2, Add	2.85	
For >2 To 6, Add	1.65	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.80	
For Galvanized, Add	2.33	
For Aluminum, Add	3.18	
For 304 Stainless Steel, Add	12.72	
For 316 Stainless Steel, Add	14.58	
05 59 69 00-0008 SF 0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels	10.71	3.76
For Up To 2, Add	3.15	
For >2 To 6, Add	1.82	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.85	
For Galvanized, Add	2.50	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.66	
For 316 Stainless Steel, Add	15.65	
05 59 69 00-0009 SF 0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels	12.27	4.19
For Up To 2, Add	3.57	
For >2 To 6, Add	2.07	
For >15 To 40, Deduct	-0.33	
For >40, Deduct	-1.00	
For Galvanized, Add	2.94	
For Aluminum, Add	4.01	
For 304 Stainless Steel, Add	16.03	
For 316 Stainless Steel, Add	18.37	
05 59 69 00-0010 SF 0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels	13.87	4.61
For Up To 2, Add	4.00	
For >2 To 6, Add	2.31	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.16	
For Galvanized, Add	3.40	
For Aluminum, Add	4.64	
For 304 Stainless Steel, Add	18.55	
For 316 Stainless Steel, Add	21.26	
05 59 69 00-0011 SF 0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	15.85	5.12
For Up To 2, Add	4.53	
For >2 To 6, Add	2.61	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.35	
For Galvanized, Add	3.97	
For Aluminum, Add	5.42	
For 304 Stainless Steel, Add	21.67	
For 316 Stainless Steel, Add	24.83	
05 59 69 00-0012 1-3/4" Square Wire Spacing <small>(05 59 69 00-0002)</small>	8.51	2.95
05 59 69 00-0013 SF 0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels	8.51	2.95
For Up To 2, Add	2.49	
For >2 To 6, Add	1.44	
For >15 To 40, Deduct	-0.23	
For >40, Deduct	-0.69	
For Galvanized, Add	2.01	
For Aluminum, Add	2.74	
For 304 Stainless Steel, Add	10.97	
For 316 Stainless Steel, Add	12.57	
05 59 69 00-0014 SF 0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels	9.33	3.11
For Up To 2, Add	2.70	
For >2 To 6, Add	1.56	
For >15 To 40, Deduct	-0.26	
For >40, Deduct	-0.78	
For Galvanized, Add	2.27	
For Aluminum, Add	3.10	
For 304 Stainless Steel, Add	12.41	
For 316 Stainless Steel, Add	14.22	
05 59 69 00-0015 SF 0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels	10.06	3.49
For Up To 2, Add	2.94	
For >2 To 6, Add	1.71	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.81	
For Galvanized, Add	2.38	
For Aluminum, Add	3.24	
For 304 Stainless Steel, Add	12.96	
For 316 Stainless Steel, Add	14.85	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0016	SF		0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels	10.51	3.61
			For Up To 2, Add	3.06	
			For >2 To 6, Add	1.77	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.86	
			For Galvanized, Add	2.51	
			For Aluminum, Add	3.42	
			For 304 Stainless Steel, Add	13.68	
			For 316 Stainless Steel, Add	15.68	
05 59 69 00-0017	SF		0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	11.52	4.04
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.96	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.92	
			For Galvanized, Add	2.70	
			For Aluminum, Add	3.68	
			For 304 Stainless Steel, Add	14.71	
			For 316 Stainless Steel, Add	16.86	
05 59 69 00-0018	SF		0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels	13.21	4.52
			For Up To 2, Add	3.85	
			For >2 To 6, Add	2.22	
			For >15 To 40, Deduct	-0.36	
			For >40, Deduct	-1.08	
			For Galvanized, Add	3.16	
			For Aluminum, Add	4.31	
			For 304 Stainless Steel, Add	17.26	
			For 316 Stainless Steel, Add	19.77	
05 59 69 00-0019	SF		0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels	14.91	4.95
			For Up To 2, Add	4.30	
			For >2 To 6, Add	2.48	
			For >15 To 40, Deduct	-0.42	
			For >40, Deduct	-1.25	
			For Galvanized, Add	3.66	
			For Aluminum, Add	4.99	
			For 304 Stainless Steel, Add	19.94	
			For 316 Stainless Steel, Add	22.85	
05 59 69 00-0020	SF		0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	17.07	5.50
			For Up To 2, Add	4.88	
			For >2 To 6, Add	2.81	
			For >15 To 40, Deduct	-0.49	
			For >40, Deduct	-1.46	
			For Galvanized, Add	4.28	
			For Aluminum, Add	5.83	
			For 304 Stainless Steel, Add	23.33	
			For 316 Stainless Steel, Add	26.73	
05 59 69 00-0021			1-1/2" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0022	SF		0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels	9.42	3.28
			For Up To 2, Add	2.76	
			For >2 To 6, Add	1.60	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.23	
			For Aluminum, Add	3.04	
			For 304 Stainless Steel, Add	12.14	
			For 316 Stainless Steel, Add	13.92	
05 59 69 00-0023	SF		0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels	10.32	3.45
			For Up To 2, Add	2.98	
			For >2 To 6, Add	1.72	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.86	
			For Galvanized, Add	2.52	
			For Aluminum, Add	3.43	
			For 304 Stainless Steel, Add	13.73	
			For 316 Stainless Steel, Add	15.73	
05 59 69 00-0024	SF		0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	11.01	3.82
			For Up To 2, Add	3.22	
			For >2 To 6, Add	1.87	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.89	
			For Galvanized, Add	2.60	
			For Aluminum, Add	3.55	
			For 304 Stainless Steel, Add	14.18	
			For 316 Stainless Steel, Add	16.25	
05 59 69 00-0025	SF		0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels	11.60	3.98
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.96	
			For >15 To 40, Deduct	-0.31	
			For >40, Deduct	-0.94	
			For Galvanized, Add	2.77	
			For Aluminum, Add	3.77	
			For 304 Stainless Steel, Add	15.10	
			For 316 Stainless Steel, Add	17.30	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0026 SF 0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	12.67	4.45
For Up To 2, Add	3.72	
For >2 To 6, Add	2.16	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.01	
For Galvanized, Add	2.96	
For Aluminum, Add	4.04	
For 304 Stainless Steel, Add	16.15	
For 316 Stainless Steel, Add	18.51	
05 59 69 00-0027 SF 0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels	14.43	4.93
For Up To 2, Add	4.20	
For >2 To 6, Add	2.43	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.18	
For Galvanized, Add	3.46	
For Aluminum, Add	4.72	
For 304 Stainless Steel, Add	18.86	
For 316 Stainless Steel, Add	21.62	
05 59 69 00-0028 SF 0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels	16.31	5.42
For Up To 2, Add	4.71	
For >2 To 6, Add	2.71	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.36	
For Galvanized, Add	4.00	
For Aluminum, Add	5.45	
For 304 Stainless Steel, Add	21.82	
For 316 Stainless Steel, Add	25.00	
05 59 69 00-0029 SF 0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels	18.61	6.01
For Up To 2, Add	5.32	
For >2 To 6, Add	3.06	
For >15 To 40, Deduct	-0.53	
For >40, Deduct	-1.59	
For Galvanized, Add	4.67	
For Aluminum, Add	6.37	
For 304 Stainless Steel, Add	25.46	
For 316 Stainless Steel, Add	29.18	
05 59 69 00-0030 1-1/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0031 SF 0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels	9.70	3.54
For Up To 2, Add	2.89	
For >2 To 6, Add	1.68	
For >15 To 40, Deduct	-0.25	
For >40, Deduct	-0.74	
For Galvanized, Add	2.18	
For Aluminum, Add	2.98	
For 304 Stainless Steel, Add	11.90	
For 316 Stainless Steel, Add	13.64	
05 59 69 00-0032 SF 0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels	10.45	3.72
For Up To 2, Add	3.08	
For >2 To 6, Add	1.79	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.82	
For Galvanized, Add	2.42	
For Aluminum, Add	3.29	
For 304 Stainless Steel, Add	13.18	
For 316 Stainless Steel, Add	15.10	
05 59 69 00-0033 SF 0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	11.31	3.88
For Up To 2, Add	3.30	
For >2 To 6, Add	1.91	
For >15 To 40, Deduct	-0.31	
For >40, Deduct	-0.92	
For Galvanized, Add	2.70	
For Aluminum, Add	3.68	
For 304 Stainless Steel, Add	14.74	
For 316 Stainless Steel, Add	16.89	
05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels	11.64	3.95
For Up To 2, Add	3.38	
For >2 To 6, Add	1.95	
For >15 To 40, Deduct	-0.32	
For >40, Deduct	-0.96	
For Galvanized, Add	2.81	
For Aluminum, Add	3.83	
For 304 Stainless Steel, Add	15.31	
For 316 Stainless Steel, Add	17.55	
05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	12.67	4.46
For Up To 2, Add	3.72	
For >2 To 6, Add	2.16	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.01	
For Galvanized, Add	2.96	
For Aluminum, Add	4.03	
For 304 Stainless Steel, Add	16.13	
For 316 Stainless Steel, Add	18.48	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0036	SF		0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels	14.27	5.02
			For Up To 2, Add	4.19	
			For >2 To 6, Add	2.43	
			For >15 To 40, Deduct	-0.38	
			For >40, Deduct	-1.14	
			For Galvanized, Add	3.34	
			For Aluminum, Add	4.55	
			For 304 Stainless Steel, Add	18.22	
			For 316 Stainless Steel, Add	20.87	
05 59 69 00-0037	SF		0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	16.20	5.53
			For Up To 2, Add	4.72	
			For >2 To 6, Add	2.73	
			For >15 To 40, Deduct	-0.44	
			For >40, Deduct	-1.32	
			For Galvanized, Add	3.88	
			For Aluminum, Add	5.29	
			For 304 Stainless Steel, Add	21.17	
			For 316 Stainless Steel, Add	24.26	
05 59 69 00-0038	SF		0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels	18.21	6.05
			For Up To 2, Add	5.25	
			For >2 To 6, Add	3.03	
			For >15 To 40, Deduct	-0.51	
			For >40, Deduct	-1.52	
			For Galvanized, Add	4.47	
			For Aluminum, Add	6.09	
			For 304 Stainless Steel, Add	24.36	
			For 316 Stainless Steel, Add	27.91	
05 59 69 00-0039	SF		0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	20.82	6.71
			For Up To 2, Add	5.95	
			For >2 To 6, Add	3.42	
			For >15 To 40, Deduct	-0.59	
			For >40, Deduct	-1.78	
			For Galvanized, Add	5.22	
			For Aluminum, Add	7.12	
			For 304 Stainless Steel, Add	28.49	
			For 316 Stainless Steel, Add	32.64	
05 59 69 00-0040			1" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0041	SF		0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels.....	11.08	4.16
			For Up To 2, Add	3.32	
			For >2 To 6, Add	1.94	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.83	
			For Galvanized, Add	2.44	
			For Aluminum, Add	3.33	
			For 304 Stainless Steel, Add	13.32	
			For 316 Stainless Steel, Add	15.26	
05 59 69 00-0042	SF		0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels.....	11.85	4.32
			For Up To 2, Add	3.52	
			For >2 To 6, Add	2.05	
			For >15 To 40, Deduct	-0.30	
			For >40, Deduct	-0.91	
			For Galvanized, Add	2.68	
			For Aluminum, Add	3.65	
			For 304 Stainless Steel, Add	14.62	
			For 316 Stainless Steel, Add	16.75	
05 59 69 00-0043	SF		0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels.....	12.35	4.52
			For Up To 2, Add	3.68	
			For >2 To 6, Add	2.14	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.95	
			For Galvanized, Add	2.78	
			For Aluminum, Add	3.79	
			For 304 Stainless Steel, Add	15.17	
			For 316 Stainless Steel, Add	17.38	
05 59 69 00-0044	SF		0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels.....	13.18	4.58
			For Up To 2, Add	3.86	
			For >2 To 6, Add	2.23	
			For >15 To 40, Deduct	-0.35	
			For >40, Deduct	-1.06	
			For Galvanized, Add	3.11	
			For Aluminum, Add	4.24	
			For 304 Stainless Steel, Add	16.97	
			For 316 Stainless Steel, Add	19.44	
05 59 69 00-0045	SF		0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels.....	14.67	5.16
			For Up To 2, Add	4.31	
			For >2 To 6, Add	2.50	
			For >15 To 40, Deduct	-0.39	
			For >40, Deduct	-1.17	
			For Galvanized, Add	3.43	
			For Aluminum, Add	4.67	
			For 304 Stainless Steel, Add	18.70	
			For 316 Stainless Steel, Add	21.42	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0046 SF 0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels	16.47	5.78
For Up To 2, Add	4.84	
For >2 To 6, Add	2.80	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.31	
For Galvanized, Add	3.85	
For Aluminum, Add	5.26	
For 304 Stainless Steel, Add	21.02	
For 316 Stainless Steel, Add	24.09	
05 59 69 00-0047 SF 0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels	18.79	6.41
For Up To 2, Add	5.47	
For >2 To 6, Add	3.16	
For >15 To 40, Deduct	-0.51	
For >40, Deduct	-1.53	
For Galvanized, Add	4.50	
For Aluminum, Add	6.14	
For 304 Stainless Steel, Add	24.55	
For 316 Stainless Steel, Add	28.13	
05 59 69 00-0048 SF 0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels	21.10	7.00
For Up To 2, Add	6.09	
For >2 To 6, Add	3.51	
For >15 To 40, Deduct	-0.59	
For >40, Deduct	-1.76	
For Galvanized, Add	5.17	
For Aluminum, Add	7.06	
For 304 Stainless Steel, Add	28.22	
For 316 Stainless Steel, Add	32.34	
05 59 69 00-0049 SF 0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels	24.02	7.75
For Up To 2, Add	6.87	
For >2 To 6, Add	3.95	
For >15 To 40, Deduct	-0.68	
For >40, Deduct	-2.05	
For Galvanized, Add	6.02	
For Aluminum, Add	8.21	
For 304 Stainless Steel, Add	32.86	
For 316 Stainless Steel, Add	37.65	
05 59 69 00-0050 3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0051 SF 0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	11.20	4.14
For Up To 2, Add	3.34	
For >2 To 6, Add	1.95	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.85	
For Galvanized, Add	2.50	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.63	
For 316 Stainless Steel, Add	15.62	
05 59 69 00-0052 SF 0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels	12.52	4.65
For Up To 2, Add	3.74	
For >2 To 6, Add	2.18	
For >15 To 40, Deduct	-0.32	
For >40, Deduct	-0.95	
For Galvanized, Add	2.78	
For Aluminum, Add	3.79	
For 304 Stainless Steel, Add	15.17	
For 316 Stainless Steel, Add	17.38	
05 59 69 00-0053 SF 0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels	13.87	5.25
For Up To 2, Add	4.17	
For >2 To 6, Add	2.44	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.03	
For Galvanized, Add	3.03	
For Aluminum, Add	4.13	
For 304 Stainless Steel, Add	16.51	
For 316 Stainless Steel, Add	18.92	
05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels	14.99	5.60
For Up To 2, Add	4.49	
For >2 To 6, Add	2.62	
For >15 To 40, Deduct	-0.38	
For >40, Deduct	-1.13	
For Galvanized, Add	3.31	
For Aluminum, Add	4.51	
For 304 Stainless Steel, Add	18.05	
For 316 Stainless Steel, Add	20.68	
05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels	17.30	6.30
For Up To 2, Add	5.14	
For >2 To 6, Add	2.99	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.34	
For Galvanized, Add	3.92	
For Aluminum, Add	5.34	
For 304 Stainless Steel, Add	21.36	
For 316 Stainless Steel, Add	24.48	

05	Metals
05 50	Metal Fabrications
05 59	Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0056	SF		0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels.....	19.87	7.05
			For Up To 2, Add	5.85	
			For >2 To 6, Add	3.40	
			For >15 To 40, Deduct	-0.52	
			For >40, Deduct	-1.57	
			For Galvanized, Add	4.61	
			For Aluminum, Add	6.29	
			For 304 Stainless Steel, Add	25.15	
			For 316 Stainless Steel, Add	28.82	
05 59 69 00-0057	SF		0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels.....	22.57	7.78
			For Up To 2, Add	6.59	
			For >2 To 6, Add	3.81	
			For >15 To 40, Deduct	-0.61	
			For >40, Deduct	-1.83	
			For Galvanized, Add	5.36	
			For Aluminum, Add	7.31	
			For 304 Stainless Steel, Add	29.26	
			For 316 Stainless Steel, Add	33.52	
05 59 69 00-0058	SF		0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels.....	25.23	8.47
			For Up To 2, Add	7.30	
			For >2 To 6, Add	4.22	
			For >15 To 40, Deduct	-0.70	
			For >40, Deduct	-2.09	
			For Galvanized, Add	6.14	
			For Aluminum, Add	8.37	
			For 304 Stainless Steel, Add	33.48	
			For 316 Stainless Steel, Add	38.36	
05 59 69 00-0059	SF		0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels.....	28.72	9.36
			For Up To 2, Add	8.24	
			For >2 To 6, Add	4.74	
			For >15 To 40, Deduct	-0.81	
			For >40, Deduct	-2.44	
			For Galvanized, Add	7.15	
			For Aluminum, Add	9.74	
			For 304 Stainless Steel, Add	38.98	
			For 316 Stainless Steel, Add	44.66	
05 59 69 00-0060			1/2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0061	SF		0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels.....	11.73	4.44
			For Up To 2, Add	3.53	
			For >2 To 6, Add	2.06	
			For >15 To 40, Deduct	-0.29	
			For >40, Deduct	-0.87	
			For Galvanized, Add	2.56	
			For Aluminum, Add	3.49	
			For 304 Stainless Steel, Add	13.94	
			For 316 Stainless Steel, Add	15.98	
05 59 69 00-0062	SF		0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels.....	13.77	5.39
			For Up To 2, Add	4.19	
			For >2 To 6, Add	2.46	
			For >15 To 40, Deduct	-0.33	
			For >40, Deduct	-0.99	
			For Galvanized, Add	2.89	
			For Aluminum, Add	3.94	
			For 304 Stainless Steel, Add	15.77	
			For 316 Stainless Steel, Add	18.07	
05 59 69 00-0063	SF		0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels.....	16.61	6.38
			For Up To 2, Add	5.02	
			For >2 To 6, Add	2.94	
			For >15 To 40, Deduct	-0.41	
			For >40, Deduct	-1.22	
			For Galvanized, Add	3.56	
			For Aluminum, Add	4.86	
			For 304 Stainless Steel, Add	19.44	
			For 316 Stainless Steel, Add	22.28	
05 59 69 00-0064	SF		0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels.....	19.11	7.16
			For Up To 2, Add	5.73	
			For >2 To 6, Add	3.34	
			For >15 To 40, Deduct	-0.48	
			For >40, Deduct	-1.44	
			For Galvanized, Add	4.21	
			For Aluminum, Add	5.74	
			For 304 Stainless Steel, Add	22.97	
			For 316 Stainless Steel, Add	26.32	
05 59 69 00-0065	SF		0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels.....	21.90	7.99
			For Up To 2, Add	6.51	
			For >2 To 6, Add	3.79	
			For >15 To 40, Deduct	-0.56	
			For >40, Deduct	-1.69	
			For Galvanized, Add	4.95	
			For Aluminum, Add	6.75	
			For 304 Stainless Steel, Add	27.00	
			For 316 Stainless Steel, Add	30.94	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0066 SF 0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels	25.06	8.90
For Up To 2, Add	7.39	
For >2 To 6, Add	4.29	
For >15 To 40, Deduct	-0.66	
For >40, Deduct	-1.98	
For Galvanized, Add	5.80	
For Aluminum, Add	7.91	
For 304 Stainless Steel, Add	31.66	
For 316 Stainless Steel, Add	36.27	
05 59 69 00-0067 SF 0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels	28.31	9.79
For Up To 2, Add	8.27	
For >2 To 6, Add	4.79	
For >15 To 40, Deduct	-0.76	
For >40, Deduct	-2.29	
For Galvanized, Add	6.71	
For Aluminum, Add	9.16	
For 304 Stainless Steel, Add	36.62	
For 316 Stainless Steel, Add	41.97	
05 59 69 00-0068 SF 0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels	31.55	10.61
For Up To 2, Add	9.14	
For >2 To 6, Add	5.28	
For >15 To 40, Deduct	-0.87	
For >40, Deduct	-2.61	
For Galvanized, Add	7.66	
For Aluminum, Add	10.45	
For 304 Stainless Steel, Add	41.78	
For 316 Stainless Steel, Add	47.88	
05 59 69 00-0069 SF 0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels	32.97	11.68
For Up To 2, Add	9.71	
For >2 To 6, Add	5.63	
For >15 To 40, Deduct	-0.87	
For >40, Deduct	-2.61	
For Galvanized, Add	7.66	
For Aluminum, Add	10.45	
For 304 Stainless Steel, Add	41.78	
For 316 Stainless Steel, Add	47.88	
05 59 69 00-0070 Expanded Metal Panels <small>(05 59 69)</small>		
Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0071 Plain Flattened Expanded Metal Diamond Shape Panels <small>(05 59 69 00-0070)</small>		
Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0072 SF 1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF	11.05	3.82
For Galvanized, Add	2.62	
For Aluminum, Add	3.57	
For 304 Stainless Steel, Add	14.28	
For 316 Stainless Steel, Add	16.36	
05 59 69 00-0073 SF 1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF	14.01	4.19
For Galvanized, Add	3.70	
For Aluminum, Add	5.05	
For 304 Stainless Steel, Add	20.21	
For 316 Stainless Steel, Add	23.16	
05 59 69 00-0074 SF 1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF	7.93	2.95
For Galvanized, Add	1.76	
For Aluminum, Add	2.39	
For 304 Stainless Steel, Add	9.58	
For 316 Stainless Steel, Add	10.97	
05 59 69 00-0075 SF 1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF	8.66	3.22
For Galvanized, Add	1.92	
For Aluminum, Add	2.62	
For 304 Stainless Steel, Add	10.49	
For 316 Stainless Steel, Add	12.02	
05 59 69 00-0076 SF 1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF	9.77	3.82
For Galvanized, Add	2.05	
For Aluminum, Add	2.80	
For 304 Stainless Steel, Add	11.21	
For 316 Stainless Steel, Add	12.84	
05 59 69 00-0077 SF 1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF	12.51	4.93
For Galvanized, Add	2.61	
For Aluminum, Add	3.56	
For 304 Stainless Steel, Add	14.26	
For 316 Stainless Steel, Add	16.34	
05 59 69 00-0078 SF 3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF	6.86	2.90
For Galvanized, Add	1.31	
For Aluminum, Add	1.79	
For 304 Stainless Steel, Add	7.15	
For 316 Stainless Steel, Add	8.20	
05 59 69 00-0079 SF 3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF	7.71	3.11
For Galvanized, Add	1.56	
For Aluminum, Add	2.13	
For 304 Stainless Steel, Add	8.52	
For 316 Stainless Steel, Add	9.76	

05	05 Metals
	05 50 Metal Fabrications
	05 59 Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0080	SF		3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF	8.81	3.49
			<i>For Galvanized, Add</i>	1.83	
			<i>For Aluminum, Add</i>	2.49	
			<i>For 304 Stainless Steel, Add</i>	9.96	
			<i>For 316 Stainless Steel, Add</i>	11.41	
05 59 69 00-0081	SF		3/4" #9-F Plain Expanded Metal Panel, 1.50 LB/SF	13.85	5.78
			<i>For Galvanized, Add</i>	2.70	
			<i>For Aluminum, Add</i>	3.68	
			<i>For 304 Stainless Steel, Add</i>	14.74	
			<i>For 316 Stainless Steel, Add</i>	16.89	
05 59 69 00-0082	SF		1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF	7.63	3.54
			<i>For Galvanized, Add</i>	1.27	
			<i>For Aluminum, Add</i>	1.73	
			<i>For 304 Stainless Steel, Add</i>	6.94	
			<i>For 316 Stainless Steel, Add</i>	7.95	
05 59 69 00-0083	SF		1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF	6.63	2.79
			<i>For Galvanized, Add</i>	1.28	
			<i>For Aluminum, Add</i>	1.75	
			<i>For 304 Stainless Steel, Add</i>	6.98	
			<i>For 316 Stainless Steel, Add</i>	8.00	
05 59 69 00-0084	SF		1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF	7.63	3.28
			<i>For Galvanized, Add</i>	1.44	
			<i>For Aluminum, Add</i>	1.96	
			<i>For 304 Stainless Steel, Add</i>	7.85	
			<i>For 316 Stainless Steel, Add</i>	8.99	
05 59 69 00-0085	SF		1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF	11.95	4.44
			<i>For Galvanized, Add</i>	2.65	
			<i>For Aluminum, Add</i>	3.62	
			<i>For 304 Stainless Steel, Add</i>	14.47	
			<i>For 316 Stainless Steel, Add</i>	16.58	

05 70 Decorative Metal (05)

Note: Includes anchors and related accessories.

05 71 Decorative Metal Stairs (05 70)

05 71 13 Fabricated Metal Spiral Stairs (05 71)

Note: Includes factory prime.

05 71 13 00-0001 Spiral Stairs, Stock Units (05 71 13)

Note: Includes factory prime.

05 71 13 00-0002 Steel Tread (05 71 13 00-0001)

05 71 13 00-0003	VLF		3'-6" Diameter, Spiral Steel Stair With Rails.....	329.98	50.73
			<i>For Galvanized, Add</i>	159.96	
05 71 13 00-0004	VLF		4' Diameter, Spiral Steel Stair With Rails.....	374.67	55.80
			<i>For Galvanized, Add</i>	184.14	
05 71 13 00-0005	VLF		4'-6" Diameter, Spiral Steel Stair With Rails.....	414.04	60.87
			<i>For Galvanized, Add</i>	204.60	
05 71 13 00-0006	VLF		5' Diameter, Spiral Steel Stair With Rails.....	444.11	65.95
			<i>For Galvanized, Add</i>	218.55	

05 73 Decorative Metal Railings (05 70)

Note: Factory primed. Includes brackets.

05 73 23 Decorative Metal Railings (05 73)

05 73 23 00-0001 Railings; Vertical Square Bars At 6" (05 73 23)

Note: Centers with shaped top rails (round, square, rectangular, diamond, triangular or other shape).

05 73 23 00-0002	LF		Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	71.05	11.16
			<i>For Rake Or Angle Railings, Add</i>	9.82	
			<i>For Curved Railings, Add</i>	19.00	
			<i>For 4" On Center Standards, Add</i>	1.96	
			<i>For 4-1/2" On Center Standards, Add</i>	1.56	
			<i>For 5" On Center Standards, Add</i>	1.04	
			<i>For 5-1/2" On Center Standards, Add</i>	0.52	
			<i>For Each Field Bending Of Rails, Add</i>	13.74	
			<i>For Galvanized, Add</i>	3.65	
05 73 23 00-0003	LF		Aluminum Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High.....	129.41	15.22
			<i>For Rake Or Angle Railings, Add</i>	15.59	
			<i>For Curved Railings, Add</i>	41.03	
			<i>For 4" On Center Standards, Add</i>	5.07	
			<i>For 4-1/2" On Center Standards, Add</i>	4.05	
			<i>For 5" On Center Standards, Add</i>	2.70	
			<i>For 5-1/2" On Center Standards, Add</i>	1.35	
			<i>For Each Field Bending Of Rails, Add</i>	17.96	
05 73 23 00-0004	LF		Bronze Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High	206.00	25.37
			<i>For Rake Or Angle Railings, Add</i>	23.78	
			<i>For Curved Railings, Add</i>	68.25	
			<i>For 4" On Center Standards, Add</i>	8.75	
			<i>For 4-1/2" On Center Standards, Add</i>	7.00	
			<i>For 5" On Center Standards, Add</i>	4.67	
			<i>For 5-1/2" On Center Standards, Add</i>	2.33	
			<i>For Each Field Bending Of Rails, Add</i>	24.82	



Metals	05	05
Decorative Metal	05 70	
Decorative Metal Railings	05 73	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 73 23 00-0005	LF		Stainless Steel Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High.....	222.96	20.29
			<i>For Rake Or Angle Railings, Add</i>	24.11	
			<i>For Curved Railings, Add</i>	78.42	
			<i>For 4" On Center Standards, Add</i>	10.54	
			<i>For 4-1/2" On Center Standards, Add</i>	8.43	
			<i>For 5" On Center Standards, Add</i>	5.62	
			<i>For 5-1/2" On Center Standards, Add</i>	2.81	
			<i>For Each Field Bending Of Rails, Add</i>	23.10	
05 73 23 00-0006	LF		Black Wrought Iron Ornamental Handrail Vertical Square Bars At 6", Shaped Top Rail, Up To 42" High.....	207.65	30.95
			<i>For Rake Or Angle Railings, Add</i>	20.76	
			<i>For Curved Railings, Add</i>	77.79	
			<i>For 4" On Center Standards, Add</i>	10.93	
			<i>For 4-1/2" On Center Standards, Add</i>	8.75	
			<i>For 5" On Center Standards, Add</i>	5.83	
			<i>For 5-1/2" On Center Standards, Add</i>	2.92	
			<i>For Each Field Bending Of Rails, Add</i>	17.97	
05 73 23 00-0007 Laminated Metal Or Wood Handrails With Metal Supports (05 73 23)					
05 73 23 00-0008	LF		2-1/2" Laminated Metal Or Wood Handrail Round/Oval Shape With Metal Supports.....	141.22	5.07
			<i>For Rake Or Angle Railings, Add</i>	11.38	
			<i>For Curved Railings, Add</i>	60.60	
			<i>For 4" On Center Standards, Add</i>	9.24	
			<i>For 4-1/2" On Center Standards, Add</i>	7.39	
			<i>For 5" On Center Standards, Add</i>	4.93	
			<i>For 5-1/2" On Center Standards, Add</i>	2.46	
			<i>For Each Field Bending Of Rails, Add</i>	7.01	
05 73 23 00-0009 Plain Handrails (05 73 23)					
05 73 23 00-0010	LF		2" Brass Handrail.....	48.96	10.48
05 73 23 00-0011	EA		90 Degree Angle For 2" Brass Handrail.....	109.42	40.14
05 73 23 00-0012	EA		End Cap For 2" Brass Handrail.....	49.91	20.13
05 73 23 00-0013	EA		Brass Bracket And Joint For 2" Brass Handrail.....	82.85	40.14
05 73 23 00-0014	LF		2" Stainless Steel Handrail.....	55.01	13.10
05 73 23 00-0015 Restoration Of Existing Metal Handrail And Railing (05 73 23)					
			Note: Task includes rust removal by grinding, cleaning, surface prep and one coat of protective primer.		
05 73 23 00-0016	LF		Refinish Metal Handrail.....	9.81	
05 73 23 00-0017	LF		Refinish Wrought Iron Balustrade.....	9.77	
05 73 23 00-0018 Remove And Reinstall Ornamental Railing (05 73 23)					
05 73 23 00-0019	LF		Removal And Reinstallation Of Ornamental Handrail And Pickets.....	93.34	
05 75 Decorative Formed Metal (05 70)					
05 75 00 00-0001 Metal Sheets, Installed On Walls (05 75)					
			Note: Includes field fabrication (bending) where noted. See CSI section 05 54 00 00-0000 for metal floor plates.		
05 75 00 00-0002 Copper Sheets, Installed On Walls (05 75 00 00-0001)					
			Note: Includes field fabrication.		
05 75 00 00-0003	SF		0.0162" (12 Ounce) Thick Copper Sheet, Installed On Walls.....	20.13	2.29
			<i>For >16 To 200, Deduct</i>	-1.18	
			<i>For >200 To 500, Deduct</i>	-2.36	
			<i>For >500, Deduct</i>	-3.36	
05 75 00 00-0004	SF		0.0215" (16 Ounce) Thick Copper Sheet, Installed On Walls.....	24.82	2.55
			<i>For >16 To 200, Deduct</i>	-1.43	
			<i>For >200 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-4.11	
05 75 00 00-0005	SF		0.0242" (18 Ounce) Thick Copper Sheet, Installed On Walls.....	27.13	2.75
			<i>For >16 To 200, Deduct</i>	-1.56	
			<i>For >200 To 500, Deduct</i>	-3.13	
			<i>For >500, Deduct</i>	-4.48	
05 75 00 00-0006	SF		0.027" (20 Ounce) Thick Copper Sheet, Installed On Walls.....	29.23	2.89
			<i>For >16 To 200, Deduct</i>	-1.68	
			<i>For >200 To 500, Deduct</i>	-3.36	
			<i>For >500, Deduct</i>	-4.82	
05 75 00 00-0007	SF		0.0323" (24 Ounce) Thick Copper Sheet, Installed On Walls.....	33.06	3.02
			<i>For >16 To 200, Deduct</i>	-1.88	
			<i>For >200 To 500, Deduct</i>	-3.76	
			<i>For >500, Deduct</i>	-5.41	
05 75 00 00-0008	SF		0.0431" (32 Ounce) Thick Copper Sheet, Installed On Walls.....	41.23	3.17
			<i>For >16 To 200, Deduct</i>	-2.30	
			<i>For >200 To 500, Deduct</i>	-4.60	
			<i>For >500, Deduct</i>	-6.66	
05 75 00 00-0009	SF		0.052" (40 Ounce) Thick Copper Sheet, Installed On Walls.....	47.90	3.31
			<i>For >16 To 200, Deduct</i>	-2.64	
			<i>For >200 To 500, Deduct</i>	-5.29	
			<i>For >500, Deduct</i>	-7.68	

05 Metals**05 70 Decorative Metal****05 75 Decorative Formed Metal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 75 00 00-0010 SF 0.0646" (48 Ounce) Thick Copper Sheet, Installed On Walls	57.59	3.58
For >16 To 200, Deduct	-3.15	
For >200 To 500, Deduct	-6.30	
For >500, Deduct	-9.18	
05 75 00 00-0011 SF 0.08" Thick Copper Sheet, Installed On Walls	70.20	3.85
For >16 To 200, Deduct	-3.80	
For >200 To 500, Deduct	-7.60	
For >500, Deduct	-11.11	
05 75 00 00-0012 SF 0.125" Thick Copper Sheet, Installed On Walls	101.58	4.13
For >16 To 200, Deduct	-5.39	
For >200 To 500, Deduct	-10.78	
For >500, Deduct	-15.86	
05 75 00 00-0013 Stainless Steel Sheets, Installed On Walls (05 75 00 00-0001)		
Note: Includes field fabrication.		
05 75 00 00-0014 SF 0.026" Thick (24 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	12.23	2.26
For >16 To 200, Deduct	-0.78	
For >200 To 500, Deduct	-1.56	
For >500, Deduct	-2.17	
05 75 00 00-0015 SF 0.0312" Thick (22 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	13.76	2.44
For >16 To 200, Deduct	-0.87	
For >200 To 500, Deduct	-1.74	
For >500, Deduct	-2.43	
05 75 00 00-0016 SF 0.0375" Thick (20 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	14.90	2.56
For >16 To 200, Deduct	-0.94	
For >200 To 500, Deduct	-1.87	
For >500, Deduct	-2.62	
05 75 00 00-0017 SF 0.050" Thick (18 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	17.21	2.67
For >16 To 200, Deduct	-1.06	
For >200 To 500, Deduct	-2.12	
For >500, Deduct	-2.98	
05 75 00 00-0018 SF 0.0625" Thick (16 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	19.45	2.80
For >16 To 200, Deduct	-1.18	
For >200 To 500, Deduct	-2.37	
For >500, Deduct	-3.34	
05 75 00 00-0019 SF 0.078" Thick (14 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	22.28	2.92
For >16 To 200, Deduct	-1.33	
For >200 To 500, Deduct	-2.67	
For >500, Deduct	-3.78	
05 75 00 00-0020 SF 0.125" Thick (11 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	31.44	3.41
For >16 To 200, Deduct	-1.83	
For >200 To 500, Deduct	-3.66	
For >500, Deduct	-5.23	
05 75 00 00-0021 SF 3/16" Thick (7 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	41.76	3.62
For >16 To 200, Deduct	-2.36	
For >200 To 500, Deduct	-4.72	
For >500, Deduct	-6.81	
05 75 00 00-0022 SF 1/4" Thick (3 Gauge) 304 Brushed Stainless Steel Sheet, Installed On Walls	56.74	4.38
For >16 To 200, Deduct	-3.17	
For >200 To 500, Deduct	-6.33	
For >500, Deduct	-9.17	
05 75 00 00-0023 SF 3/8" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls	92.85	4.70
For >16 To 200, Deduct	-5.00	
For >200 To 500, Deduct	-9.99	
For >500, Deduct	-14.63	
05 75 00 00-0024 SF 1/2" Thick 304 Brushed Stainless Steel Sheet, Installed On Walls	118.39	5.47
For >16 To 200, Deduct	-6.33	
For >200 To 500, Deduct	-12.66	
For >500, Deduct	-18.58	
05 75 00 00-0025 Aluminum Sheets, Installed On Walls (05 75 00 00-0001)		
Note: Includes field fabrication.		
05 75 00 00-0026 SF 0.016" Thick (26 Gauge) Aluminum Sheet, Installed On Walls	9.77	2.29
For >16 To 200, Deduct	-0.66	
For >200 To 500, Deduct	-1.32	
For >500, Deduct	-1.81	
05 75 00 00-0027 SF 0.020" Thick (24 Gauge) Aluminum Sheet, Installed On Walls	11.06	2.55
For >16 To 200, Deduct	-0.74	
For >200 To 500, Deduct	-1.49	
For >500, Deduct	-2.04	
05 75 00 00-0028 SF 0.025" Thick (22 Gauge) Aluminum Sheet, Installed On Walls	12.26	2.75
For >16 To 200, Deduct	-0.82	
For >200 To 500, Deduct	-1.64	
For >500, Deduct	-2.25	
05 75 00 00-0029 SF 0.032" Thick (20 Gauge) Aluminum Sheet, Installed On Walls	13.47	2.89
For >16 To 200, Deduct	-0.89	
For >200 To 500, Deduct	-1.78	
For >500, Deduct	-2.45	
05 75 00 00-0030 SF 0.040" Thick (18 Gauge) Aluminum Sheet, Installed On Walls	14.66	3.02
For >16 To 200, Deduct	-0.96	
For >200 To 500, Deduct	-1.92	
For >500, Deduct	-2.65	



Metals	05	05
Decorative Metal	05 70	
Decorative Formed Metal	05 75	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 75 00 00-0031	SF		0.050" Thick (16 Gauge) Aluminum Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	15.96 -1.04 -2.07 -2.87	3.17
05 75 00 00-0032	SF		0.064" Thick (14 Gauge) Aluminum Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	17.52 -1.12 -2.25 -3.12	3.31
05 75 00 00-0033	SF		0.090" Thick (11 Gauge) Aluminum Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	20.79 -1.33 -2.66 -3.70	3.85
05 75 00 00-0034			Galvanized Steel Sheets, Installed On Walls <small>(05 75 00 00-0001)</small> Note: Includes field fabrication.		
05 75 00 00-0035	SF		0.0217" (26 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	9.79 -0.66 -1.32 -1.81	2.29
05 75 00 00-0036	SF		0.0276" (24 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	10.85 -0.73 -1.47 -2.01	2.55
05 75 00 00-0037	SF		0.0336" (22 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	11.54 -0.78 -1.57 -2.14	2.75
05 75 00 00-0038	SF		0.0396" (20 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	12.25 -0.83 -1.66 -2.27	2.89
05 75 00 00-0039	SF		0.0516" (18 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	13.19 -0.89 -1.77 -2.43	3.02
05 75 00 00-0040	SF		0.0635" (16 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	14.20 -0.95 -1.90 -2.61	3.17
05 75 00 00-0041	SF		0.0785" (14 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	15.81 -1.04 -2.08 -2.87	3.31
05 75 00 00-0042	SF		0.1084" (12 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	18.14 -1.18 -2.35 -3.26	3.58
05 75 00 00-0043	SF		0.1382" (10 Gauge) Thick Galvanized Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	20.91 -1.36 -2.71 -3.76	4.13
05 75 00 00-0044			Galvanized Zinc-Plated Steel Sheets, Installed On Walls <small>(05 75 00 00-0001)</small> Note: Includes field fabrication.		
05 75 00 00-0045	SF		0.013" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	11.19 -0.78 -1.55 -2.11	2.17
05 75 00 00-0046	SF		0.016" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	12.84 -0.89 -1.78 -2.42	2.46
05 75 00 00-0047	SF		0.019" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	14.46 -1.00 -1.99 -2.72	2.73
05 75 00 00-0048	SF		0.024" Thick Galvanized Zinc Plated Steel Sheet, Installed On Walls..... <i>For >16 To 200, Deduct</i> <i>For >200 To 500, Deduct</i> <i>For >500, Deduct</i>	15.88 -1.09 -2.18 -2.97	2.95

END OF SECTION 05

05	05	Metals
	05 70	Decorative Metal
	05 75	Decorative Formed Metal



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 Thermal And Moisture Protection

07 01 Operation and Maintenance of Thermal and Moisture Protection ⁽⁰⁷⁾

07 01 50 Maintenance of Membrane Roofing ^(07 01)

07 01 50 19 Preparation for Re-Roofing ^(07 01 50)

07 01 50 19-0001 Preparation For Re-Roofing ^(07 01 50 19)

07 01 50 19-0002	SQ	Removal Of Pea Gravel Ballast From Roof, Vacuum And Disposal	29.28
07 01 50 19-0003	SQ	Removal Of Gravel Ballast From Roof, Vacuum And Disposal.....	51.68

07 01 50 81 Roof Replacement ^(07 01 50)

07 01 50 81-0001 Roof Repair ^(07 01 50 81)

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

07 01 50 81-0002	SF	Up To 10 SF Roof Repair, Built-Up Roofing	22.26
07 01 50 81-0003	SF	>10 To 25 SF Roof Repair, Built-Up Roofing	19.96
07 01 50 81-0004	SF	>25 To 50 SF Roof Repair, Built-Up Roofing	18.17
07 01 50 81-0005	SF	>50 To 100 SF Roof Repair, Built-Up Roofing	16.90
07 01 50 81-0006	SF	Up To 10 SF Roof Repair, Membrane Roofing	25.19
07 01 50 81-0007	SF	>10 To 25 SF Roof Repair, Membrane Roofing	22.88
07 01 50 81-0008	SF	>25 To 50 SF Roof Repair, Membrane Roofing	21.10
07 01 50 81-0009	SF	>50 To 100 SF Roof Repair, Membrane Roofing	19.83
07 01 50 81-0010	SF	Up To 10 SF Roof Repair, Shingle Roofing	19.34
07 01 50 81-0011	SF	>10 To 25 SF Roof Repair, Shingle Roofing	17.33
07 01 50 81-0012	SF	>25 To 50 SF Roof Repair, Shingle Roofing	15.84
07 01 50 81-0013	SF	>50 To 100 SF Roof Repair, Shingle Roofing.....	14.86
07 01 50 81-0014	LF	Heat Weld Roofing Seams For Repair.....	6.90

07 01 50 81-0015 Emergency Roof Patch ^(07 01 50 81)

Note: 4 Hour response time.

07 01 50 81-0016	EA	Granule Emergency Roof Patch Cover 16 SF	90.82
07 01 50 81-0017	EA	Mobilize For Emergency Roof Patching.....	429.39

07 01 50 81-0018 Adhesives ^(07 01 50 81)

Note: For repair of seams.

07 01 50 81-0019 Mastic Sealer ^(07 01 50 81-0018)

07 01 50 81-0020 Applied At Joints Only ^(07 01 50 81-0019)

07 01 50 81-0021	LF	Mastic Sealer, 1/4" Bead At Joint.....	4.25
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1.83

07 01 50 91 Roofing Restoration ^(07 01 50)

07 01 50 91-0001 Pressure Wash Membrane Roofing ^(07 01 50 91)

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing	0.14
		<i>For Up To 100, Add</i>	<i>0.11</i>
		<i>For >100 To 250, Add</i>	<i>0.05</i>
		<i>For >250 To 500, Add</i>	<i>0.02</i>
		<i>For >5,000 To 10,000, Deduct</i>	<i>-0.01</i>
		<i>For >10,000 To 15,000, Deduct</i>	<i>-0.01</i>
		<i>For >15,000 To 30,000, Deduct</i>	<i>-0.02</i>
		<i>For >30,000, Deduct</i>	<i>-0.03</i>

07 05 Common Work Results for Thermal and Moisture Protection

⁽⁰⁷⁾

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05)

07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05 13)

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work.....	1,292.30
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	966.90
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	646.15
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	322.30

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
the absence of hydrostatic pressure.		
07 11 Dampproofing (07 10)		
07 11 13 Bituminous Dampproofing (07 11)		
07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray (07 11 13)		
07 11 13 00-0002 CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	158.36	
07 11 13 00-0003 CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	244.38	
07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On (07 11 13)		
07 11 13 00-0005 CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	271.71	
07 11 13 00-0006 CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On	420.66	
07 11 13 00-0007 Asphaltic Paint Dampproofing (07 11 13)		
07 11 13 00-0008 CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	127.51	
07 11 13 00-0009 CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On	235.66	
07 11 19 Sheet Dampproofing (07 11)		
07 11 19 00-0001 Neoprene (07 11 19)		
07 11 19 00-0002 SF 1/16" Patch Neoprene Roof (5 To 20 SF)	34.26	
07 13 Sheet Waterproofing (07 10)		
07 13 13 Bituminous Sheet Waterproofing (07 13)		
07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped (07 13)		
07 13 13 00-0002 CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	300.45	104.94
For 30 LB Felt, Add	67.92	
For Application To Horizontal Surfaces, Deduct	-31.48	
07 13 13 00-0003 CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	378.63	118.06
For 30 LB Felt, Add	106.88	
For Application To Horizontal Surfaces, Deduct	-35.42	
07 13 13 00-0004 CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	456.79	131.18
For 30 LB Felt, Add	145.83	
For Application To Horizontal Surfaces, Deduct	-39.35	
07 13 13 00-0005 CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	534.97	144.30
For 30 LB Felt, Add	184.79	
For Application To Horizontal Surfaces, Deduct	-43.29	
07 13 13 00-0006 CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	613.16	157.41
For 30 LB Felt, Add	223.75	
For Application To Horizontal Surfaces, Deduct	-47.22	
07 13 13 00-0007 Asphalt Coated Protective Board (07 13 13)		
07 13 13 00-0008 CSF 1/8" Asphalt Coated Protective Board	257.43	103.54
For Application To Horizontal Surfaces, Deduct	-34.53	
07 13 13 00-0009 CSF 1/4" Asphalt Coated Protective Board	341.86	107.52
For Application To Horizontal Surfaces, Deduct	-35.84	
07 13 13 00-0010 CSF 3/8" Asphalt Coated Protective Board	443.60	112.04
For Application To Horizontal Surfaces, Deduct	-37.33	
07 13 13 00-0011 CSF 1/2" Asphalt Coated Protective Board	495.48	116.56
For Application To Horizontal Surfaces, Deduct	-38.86	
07 13 53 Elastomeric Sheet Waterproofing (07 13)		
07 13 53 00-0001 Rubberized Membrane Sheet (07 13 53)		
07 13 53 00-0002 SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	7.16	1.07
For Floor Surfaces, Deduct	-1.06	
07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM) (07 13 53)		
07 13 53 00-0004 CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	490.08	150.53
For Application To Horizontal Surfaces, Deduct	-45.15	
07 13 53 00-0005 CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	577.35	150.53
For Application To Horizontal Surfaces, Deduct	-45.15	
07 13 53 00-0006 Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing	97.20	37.63
For Joint Taping, Add	13.53	
For Each Additional Ply, Add	71.81	
For Application To Horizontal Surfaces, Deduct	-5.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	116.13 14.48 85.06 -5.66	37.63
07 13 53 00-0009 Butyl With Nylon (07 13 53)		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	108.02 14.07 79.39 -5.66	37.63
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	120.19 14.68 87.90 -5.66	37.63
07 13 53 00-0012 Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	170.28 17.19 122.97 -5.66	37.63
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	250.85 21.22 179.37 -5.66	37.63
07 13 53 00-0015 Neoprene With Nylon (07 13 53)		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	178.69 17.61 128.85 -5.66	37.63
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	264.28 21.89 188.77 -5.66	37.63
07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	37.47 9.14 29.39 -4.74	14.29
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	38.31 9.19 29.98 -4.74	14.29
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	59.82 10.26 45.04 -4.74	14.29
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite..... <i>Note: Includes seam tape, liquid mastic, anchors and termination bar.</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	226.56 162.11 -5.27	14.29
07 13 53 00-0023 Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	72.08 10.87 53.62 -4.74	15.81
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	102.73 12.68 75.19 -4.92	16.39
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	144.35 15.03 104.44 -5.09	16.97
07 13 53 00-0027 Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028 CSF 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	41.24	14.63
07 14 Fluid-Applied Waterproofing (07 10)		
07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)		
07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)		

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 14 Fluid-Applied Waterproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.16	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.20	
<i>For Reinforcing Fabric, Add</i>	0.46	
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.52	
Note: Includes primer.		
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.21	
<i>For Reinforcing Fabric, Add</i>	0.46	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)		
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002 SF 60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.74	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.45	
07 14 16 00-0003 SF 90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.24	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.48	
07 14 16 00-0004 SF 120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.79	
<i>For Application To Horizontal Surfaces, Deduct</i>	-0.51	
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)		
07 14 16 00-0006 SF 15 Mil Finish Coat, Chlorosulfonated Polyethylene (CSM) Polymer, 1 Part Solution.....	2.52	
07 14 16 00-0007 Copolymer Compound (07 14 16)		
07 14 16 00-0008 SF Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	4.04	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Neoprene.....	470.92	
<i>For Application To Horizontal Surfaces, Deduct</i>	-54.83	
07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Neoprene.....	945.92	
<i>For Application To Horizontal Surfaces, Deduct</i>	-107.57	
07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Neoprene.....	1,532.70	
<i>For Application To Horizontal Surfaces, Deduct</i>	-161.28	
07 16 Cementitious and Reactive Waterproofing (07 10)		
07 16 13 Polymer Modified Cement Waterproofing (07 16)		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	4.43	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing. 2 Coats (Xypex Concentrate).....	5.40	
07 16 19 Metal Oxide Waterproofing (07 16)		
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	442.29	
<i>For Application To Horizontal Surfaces, Deduct</i>	-56.30	
07 17 Bentonite Waterproofing (07 10)		
07 17 13 Bentonite Panel Waterproofing (07 17)		
07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....	429.30	123.54
<i>For Application To Horizontal Surfaces, Deduct</i>	-37.07	
07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels.....	394.76	130.53
<i>For Application To Horizontal Surfaces, Deduct</i>	-40.12	
07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels.....	538.19	136.12
<i>For Application To Horizontal Surfaces, Deduct</i>	-40.83	
07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....	434.51	113.22
<i>For Application To Horizontal Surfaces, Deduct</i>	-33.95	
07 19 Water Repellents (07 10)		
07 19 13 Acrylic Sealer (07 19)		
Note: Per coat.		
07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer.....	2.34	
07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer.....	2.79	
07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer.....	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 20 Thermal Protection ⁽⁰⁷⁾

07 21 Thermal Insulation ^(07 20)

07 21 13 Board Insulation ^(07 21)

Note: Types are stock sizes, mastic applied.

07 21 13 13 Foam Board Insulation ^(07 21 13)

07 21 13 13-0001	Cold Adhesive Applied Foam Board Insulation ^(07 21 13 13)		
07 21 13 13-0002	Cold Adhesive Applied, Foam Glass (Cellular Glass), Foam Board Insulation ^(07 21 13-0001)		
07 21 13 13-0003	SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	2.56 -0.07 0.05	0.40
07 21 13 13-0004	SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	3.37 -0.07 0.05	0.41
07 21 13 13-0005	SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	3.91 -0.07 0.05	0.41
07 21 13 13-0006	SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	4.97 -0.07 0.05	0.42
07 21 13 13-0007	Cold Adhesive Applied, Expanded Polystyrene, Foam Board Insulation ^(07 21 13 13-0001)		
07 21 13 13-0008	SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	1.59 -0.07 0.05	0.40
07 21 13 13-0009	SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	1.47 -0.07 0.05	0.40
07 21 13 13-0010	SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	1.61 -0.07 0.05	0.40
07 21 13 13-0011	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	1.74 -0.07 0.05	0.40
07 21 13 13-0012	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	2.27 -0.07 0.05	0.41
07 21 13 13-0013	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	2.79 -0.07 0.05	0.42
07 21 13 13-0014	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	3.32 -0.07 0.05	0.43
07 21 13 13-0015	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	3.85 -0.07 0.05	0.44
07 21 13 13-0016	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i>	4.36 -0.08 0.05	0.45
07 21 13 13-0017	Cold Adhesive Applied, Extruded Polystyrene, Foam Board Insulation ^(07 21 13 13-0001)		
	Note: 15 PSI compressive strength.		
07 21 13 13-0018	SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	1.81 -0.07 0.05 0.18 0.44 0.70 3.02	0.40
07 21 13 13-0019	SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	2.10 -0.07 0.05 0.23 0.55 0.87 3.77	0.40
07 21 13 13-0020	SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	2.35 -0.07 0.05 0.27 0.64 1.01 4.38	0.40

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0021	SF	1"	Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	1.92	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.20	
			<i>For 40 PSI Compressive Strength, Add</i>	0.48	
			<i>For 60 PSI Compressive Strength, Add</i>	0.76	
			<i>For 115 PSI Compressive Strength, Add</i>	3.28	
07 21 13 13-0022	SF	2"	Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.64	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.31	
			<i>For 40 PSI Compressive Strength, Add</i>	0.74	
			<i>For 60 PSI Compressive Strength, Add</i>	1.17	
			<i>For 115 PSI Compressive Strength, Add</i>	5.08	
07 21 13 13-0023	SF	3"	Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	3.35	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.42	
			<i>For 40 PSI Compressive Strength, Add</i>	1.01	
			<i>For 60 PSI Compressive Strength, Add</i>	1.57	
			<i>For 115 PSI Compressive Strength, Add</i>	6.88	
07 21 13 13-0024	SF	4"	Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	3.72	0.43
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.48	
			<i>For 40 PSI Compressive Strength, Add</i>	1.14	
			<i>For 60 PSI Compressive Strength, Add</i>	1.78	
			<i>For 115 PSI Compressive Strength, Add</i>	7.78	
07 21 13 13-0025			Mechanically Fastened Foam Board Insulation (07 21 13 13)		
			Note: Mechanically fastened to wood or steel.		
07 21 13 13-0026			Mechanically Fastened, Foam Glass (Cellular Glass), Foam Board Insulation (07 21 13 13-0025)		
			Note: Mechanically fastened to wood or steel.		
07 21 13 13-0027	SF	1"	Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	2.43	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0028	SF	1-1/2"	Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	3.29	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0029	SF	2"	Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	3.84	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 13-0030	SF	2-3/4"	Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	4.97	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 13-0031			Mechanically Fastened, Expanded Polystyrene, Foam Board Insulation (07 21 13 13-0025)		



Thermal And Moisture Protection		07
Thermal Protection		07 20
Thermal Insulation		07 21

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0032 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.45	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0033 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.34	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0034 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.46	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0035 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	1.60	0.40
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0036 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)	2.20	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 13-0037 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.79	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 13-0038 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.40	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0039	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.04	0.44
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.02	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	6.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 21 13 13-0040	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.96	0.45
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 21 13 13-0041			Mechanically Fastened, Extruded Polystyrene, Foam Board Insulation <small>(07 21 13 13-0025)</small>		
			Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 21 13 13-0042	SF		3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	1.67	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.14	
			<i>For 40 PSI Compressive Strength, Add</i>	0.33	
			<i>For 60 PSI Compressive Strength, Add</i>	0.55	
			<i>For 115 PSI Compressive Strength, Add</i>	2.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0043	SF		1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	1.97	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.19	
			<i>For 40 PSI Compressive Strength, Add</i>	0.45	
			<i>For 60 PSI Compressive Strength, Add</i>	0.72	
			<i>For 115 PSI Compressive Strength, Add</i>	3.11	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0044	SF		3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	2.21	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.23	
			<i>For 40 PSI Compressive Strength, Add</i>	0.54	
			<i>For 60 PSI Compressive Strength, Add</i>	0.86	
			<i>For 115 PSI Compressive Strength, Add</i>	3.73	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 13-0045	SF		1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened	1.79	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.16	
			<i>For 40 PSI Compressive Strength, Add</i>	0.38	
			<i>For 60 PSI Compressive Strength, Add</i>	0.61	
			<i>For 115 PSI Compressive Strength, Add</i>	2.62	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0046 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.58	0.41
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.28	
For 40 PSI Compressive Strength, Add	0.66	
For 60 PSI Compressive Strength, Add	1.05	
For 115 PSI Compressive Strength, Add	4.56	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.71	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 21 13 13-0047 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	3.35	0.42
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.40	
For 40 PSI Compressive Strength, Add	0.95	
For 60 PSI Compressive Strength, Add	1.49	
For 115 PSI Compressive Strength, Add	6.49	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 21 13 13-0048 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	3.80	0.43
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.47	
For 40 PSI Compressive Strength, Add	1.11	
For 60 PSI Compressive Strength, Add	1.74	
For 115 PSI Compressive Strength, Add	7.62	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 21 13 16 Fibrous Board Insulation (07 21 13)		
07 21 13 16-0001 Cold Adhesive Applied Fibrous Board Insulation (07 21 13 16)		
07 21 13 16-0002 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0003 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	1.93	0.50
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0004 SF 2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	2.62	0.60
For Horizontal Surface Application, Deduct	-0.10	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0005 SF 3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	3.30	0.70
For Horizontal Surface Application, Deduct	-0.12	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0006 Cold Adhesive Applied, Fiberglass, Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0007 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	2.87	0.40
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0008 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied.....	4.68	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0009 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	5.76	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 16-0010 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	6.63	0.41
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0011	SF		3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	7.50	0.42
			<i>For Horizontal Surface Application, Deduct</i>	-0.07	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0012			Mechanically Fastened Fibrous Board Insulation (07 21 13 16)		
			Note: Mechanically fastened to wood or steel.		
07 21 13 16-0013			Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0012)		
			Note: Mechanically fastened to wood or steel.		
07 21 13 16-0014	SF		1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....	1.66	0.50
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 16-0015	SF		2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....	2.41	0.60
			<i>For Horizontal Surface Application, Deduct</i>	-0.10	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 16-0016	SF		3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened.....	3.14	0.70
			<i>For Horizontal Surface Application, Deduct</i>	-0.12	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 16-0017			Mechanically Fastened, Fiberglass, Fibrous Board Insulation (07 21 13 16-0012)		
			Note: Mechanically fastened to wood or steel.		
07 21 13 16-0018	SF		1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	2.73	0.40
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 16-0019	SF		1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	4.61	0.41
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0020 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	5.70	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 16-0021 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	6.63	0.41
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 21 13 16-0022 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	7.50	0.42
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 21 13 19 Mineral Board Insulation (07 21 13)		
07 21 13 19-0001 Cold Adhesive Applied Mineral Board Insulation (07 21 13 19)		
07 21 13 19-0002 Cold Adhesive Applied, High-Density Fiberboard, Mineral Board Insulation (07 21 13 19-0001)		
07 21 13 19-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.56	0.45
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.78	0.48
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	1.99	0.50
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.37	0.55
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0007 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.75	0.60
<i>For Horizontal Surface Application, Deduct</i>	-0.10	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0008 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	3.49	0.70
<i>For Horizontal Surface Application, Deduct</i>	-0.12	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0009 Mechanically Fastened Mineral Board Insulation (07 21 13 19) Note: Mechanically fastened to wood or steel.		
07 21 13 19-0010 Mechanically Fastened, High-Density Fiberboard, Mineral Board Insulation (07 21 13 19-0009) Note: Mechanically fastened to wood or steel.		
07 21 13 19-0011 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	1.30	0.45
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 19-0012	SF		25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	1.51	0.48
			<i>For Horizontal Surface Application, Deduct</i>	-0.08	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 19-0013	SF		1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	1.73	0.50
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.79	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.70	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 19-0014	SF		1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	2.15	0.55
			<i>For Horizontal Surface Application, Deduct</i>	-0.09	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 21 13 19-0015	SF		2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	2.53	0.60
			<i>For Horizontal Surface Application, Deduct</i>	-0.10	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 21 13 19-0016	SF		3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened.....	3.33	0.70
			<i>For Horizontal Surface Application, Deduct</i>	-0.12	
			<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
			<i>For Factory Painted On One Surface Add</i>	0.17	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	

07 21 16 Blanket Insulation (07 21)

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

07 21 16 00-0001 Fiberglass Flexible Insulation (07 21 16)

Note: Rolls or batts.

07 21 16 00-0002 Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)

07 21 16 00-0003	SF		3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation.....	1.50	0.52
			<i>For >1,600, Deduct</i>	-0.15	
07 21 16 00-0004	SF		3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation.....	1.59	0.52
			<i>For >1,600, Deduct</i>	-0.16	
07 21 16 00-0005	SF		3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation.....	1.62	0.52
			<i>For >1,600, Deduct</i>	-0.17	
07 21 16 00-0006	SF		5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation.....	2.08	0.52
			<i>For >1,600, Deduct</i>	-0.26	
07 21 16 00-0007	SF		6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation.....	1.82	0.52
			<i>For >1,600, Deduct</i>	-0.20	
07 21 16 00-0008	SF		9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation.....	2.45	0.65
			<i>For >1,600, Deduct</i>	-0.30	
07 21 16 00-0009	SF		12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation.....	2.78	0.65
			<i>For >1,600, Deduct</i>	-0.34	

07 21 16 00-0010 Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0011 SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation.....	1.44	0.52
<i>For >1,600, Deduct</i>	-0.13	
07 21 16 00-0012 SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation.....	1.54	0.52
<i>For >1,600, Deduct</i>	-0.15	
07 21 16 00-0013 SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation.....	1.95	0.52
<i>For >1,600, Deduct</i>	-0.24	
07 21 16 00-0014 SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation.....	2.01	0.52
<i>For >1,600, Deduct</i>	-0.24	
07 21 16 00-0015 SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation.....	1.77	0.52
<i>For >1,600, Deduct</i>	-0.19	
07 21 16 00-0016 SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation.....	2.32	0.65
<i>For >1,600, Deduct</i>	-0.27	
07 21 16 00-0017 SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation.....	2.70	0.65
<i>For >1,600, Deduct</i>	-0.32	
07 21 16 00-0018 Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0019 SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation	1.67	0.52
<i>For >1,600, Deduct</i>	-0.18	
07 21 16 00-0020 SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation	1.83	0.52
<i>For >1,600, Deduct</i>	-0.21	
07 21 16 00-0021 SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation	2.04	0.52
<i>For >1,600, Deduct</i>	-0.24	
07 21 16 00-0022 SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation	2.84	0.65
<i>For >1,600, Deduct</i>	-0.36	
07 21 16 00-0023 SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation	3.08	0.65
<i>For >1,600, Deduct</i>	-0.40	
07 21 16 00-0024 Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)		
07 21 16 00-0025 SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation	1.53	0.52
<i>For >1,600, Deduct</i>	-0.15	
07 21 16 00-0026 SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation	1.62	0.52
<i>For >1,600, Deduct</i>	-0.17	
07 21 16 00-0027 SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation	2.13	0.52
<i>For >1,600, Deduct</i>	-0.27	
07 21 16 00-0028 SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation	1.84	0.52
<i>For >1,600, Deduct</i>	-0.20	
07 21 16 00-0029 SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation	2.37	0.65
<i>For >1,600, Deduct</i>	-0.29	
07 21 16 00-0030 SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation	2.70	0.65
<i>For >1,600, Deduct</i>	-0.32	
07 21 16 00-0031 Mineral Wool Flexible Insulation (07 21 16)		
07 21 16 00-0032 Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0033 SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation.....	1.64	0.52
<i>For >1,600, Deduct</i>	-0.17	
07 21 16 00-0034 SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation.....	2.11	0.52
<i>For >1,600, Deduct</i>	-0.25	
07 21 16 00-0035 SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation.....	3.15	0.52
<i>For >1,600, Deduct</i>	-0.44	
07 21 16 00-0036 SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation.....	3.73	0.52
<i>For >1,600, Deduct</i>	-0.53	
07 21 16 00-0037 Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0038 SF 3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation.....	1.55	0.52
<i>For >1,600, Deduct</i>	-0.16	
07 21 16 00-0039 SF 6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation.....	1.96	0.52
<i>For >1,600, Deduct</i>	-0.22	
07 21 16 00-0040 SF 9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation.....	2.87	0.52
<i>For >1,600, Deduct</i>	-0.38	
07 21 16 00-0041 SF 12" Unfaced, R-38 Mineral Wool Flexible Insulation	3.39	0.52
<i>For >1,600, Deduct</i>	-0.46	
07 21 16 00-0042 Natural Cotton Insulation (07 21 16)		
07 21 16 00-0043 UltraTouch™ Natural Cotton Insulation (07 21 16 00-0042)		
Note: 85% recycled denim cotton.		
07 21 16 00-0044 SF 3-1/2", R-13 UltraTouch™ Natural Cotton Insulation	2.13	0.52
<i>For >1,600, Deduct</i>	-0.27	
07 21 16 00-0045 SF 5-1/2", R-19 UltraTouch™ Natural Cotton Insulation	2.36	0.52
<i>For >1,600, Deduct</i>	-0.31	
07 21 16 00-0046 SF 5-1/2", R-21 UltraTouch™ Natural Cotton Insulation	2.59	0.52
<i>For >1,600, Deduct</i>	-0.36	
07 21 16 00-0047 SF 8", R-30 UltraTouch™ Natural Cotton Insulation	3.39	0.52
<i>For >1,600, Deduct</i>	-0.50	

07 21 19 Foamed-In-Place Insulation (07 21)

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 21 Thermal Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0001			Polyurethane Foam Insulation, Sprayed On (07 21 19)		
07 21 19 00-0002	SF		1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.33	
07 21 19 00-0003	SF		2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.25	
07 21 19 00-0004	SF		3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.17	
07 21 19 00-0005	SF		4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.08	
07 21 19 00-0006	SF		5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.99	
07 21 19 00-0007	SF		6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.92	
07 21 19 00-0008	SF		1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	2.56	
07 21 19 00-0009	SF		2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	4.08	
07 21 19 00-0010	SF		3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	5.59	
07 21 19 00-0011	SF		4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	7.12	
07 21 19 00-0012	SF		5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	8.64	
07 21 19 00-0013	SF		6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	10.15	
07 21 23			Loose-Fill Insulation (07 21)		
07 21 23 00-0001			Poured Type, Loose Fill Insulation (07 21 23)		
07 21 23 00-0002	CF		R-4/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	7.47	3.02
07 21 23 00-0003	CF		R-3.8/Inch, Poured Type, Cellulose Loose Fill Insulation.....	7.89	3.02
07 21 23 00-0004			Concrete Block Wall Cavity Insulation (07 21 23)		
07 21 23 00-0005	CF		R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	9.62	3.02
07 21 23 00-0006	CF		R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	9.55	3.02
07 21 26			Blown Insulation (07 21)		
07 21 26 00-0001			Fiberglass Blown-In Insulation (07 21 26)		
07 21 26 00-0002			Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0003	SF		4-1/2" Thick, R-11 Attic, Fiberglass Blown In Insulation.....	1.48	1.24
07 21 26 00-0004	SF		5-1/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.65	1.36
07 21 26 00-0005	SF		6-1/2" Thick, R-17 Attic, Fiberglass Blown In Insulation.....	1.83	1.49
07 21 26 00-0006	SF		7-1/2" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	2.04	1.62
07 21 26 00-0007	SF		8-1/2" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	2.15	1.67
07 21 26 00-0008	SF		10-1/4" Thick, R-26 Attic, Fiberglass Blown In Insulation.....	2.32	1.74
07 21 26 00-0009	SF		11-1/2" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.47	1.80
07 21 26 00-0010	SF		12-1/2" Thick, R-32 Attic, Fiberglass Blown In Insulation.....	2.59	1.86
07 21 26 00-0011	SF		13-1/2" Thick, R-35 Attic, Fiberglass Blown In Insulation.....	2.77	1.98
07 21 26 00-0012	SF		14-1/2" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	2.93	2.05
07 21 26 00-0013	SF		16-1/2" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	3.13	2.11
07 21 26 00-0014	SF		18-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	3.37	2.23
07 21 26 00-0015	SF		21-3/4" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	3.90	2.49
07 21 26 00-0016			New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0017	SF		3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation.....	2.07	1.24
07 21 26 00-0018	SF		5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation.....	2.73	1.49
07 21 26 00-0019	SF		7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation.....	3.21	1.62
07 21 26 00-0020	SF		9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation.....	3.78	1.74
07 21 26 00-0021			Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
			Note: Includes drilling. Excludes patching.		
07 21 26 00-0022	SF		3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation.....	1.98	1.24
07 21 26 00-0023	SF		5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation.....	2.64	1.49
07 21 26 00-0024	SF		7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation.....	3.12	1.62
07 21 26 00-0025	SF		9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation.....	3.69	1.74
07 21 26 00-0026			Cellulose Blown-In Insulation (07 21 26)		
07 21 26 00-0027			Attic, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0028	SF		3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation.....	1.56	1.24
07 21 26 00-0029	SF		5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation.....	1.85	1.36
07 21 26 00-0030	SF		6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation.....	2.07	1.49
07 21 26 00-0031	SF		7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation.....	2.40	1.62
07 21 26 00-0032	SF		8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation.....	2.44	1.62
07 21 26 00-0033	SF		10-3/4" Thick, R-38 Attic, Cellulose Blown In Insulation.....	2.81	1.74
07 21 26 00-0034	SF		11-1/4" Thick, R-40 Attic, Cellulose Blown In Insulation.....	2.88	1.74
07 21 26 00-0035	SF		12-1/2" Thick, R-45 Attic, Cellulose Blown In Insulation.....	3.15	1.86
07 21 26 00-0036	SF		13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation.....	3.33	1.86
07 21 26 00-0037	SF		15-1/2" Thick, R-55 Attic, Cellulose Blown In Insulation.....	3.59	1.98
07 21 26 00-0038	SF		16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation.....	3.76	1.98
07 21 26 00-0039			New Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0040	SF		3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation.....	2.02	1.24



Thermal And Moisture Protection			07
Thermal Protection			07 20
Thermal Insulation			07 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 26 00-0041	SF		5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation	2.66	1.49
07 21 26 00-0042	SF		7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation	3.12	1.62
07 21 26 00-0043	SF		9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation	3.66	1.74
07 21 26 00-0044			Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
			Note: Includes drilling. Excludes patching.		
07 21 26 00-0045	SF		3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation	1.93	1.24
07 21 26 00-0046	SF		5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation	2.57	1.49
07 21 26 00-0047	SF		7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation	3.03	1.62
07 21 26 00-0048	SF		9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation	3.57	1.74
07 21 29			Sprayed Insulation (07 21)		
07 21 29 00-0001			Fiber Sprayed On Insulation (07 21 29)		
07 21 29 00-0002	SF		1" Thick, R2.7, Spray-on Perlite Insulation	2.21	0.67
07 21 29 00-0003	SF		1" Thick, R3.7, Spray-on Fibrous/Cementitious Insulation.....	1.63	0.67
07 21 29 00-0004			Cellulose Sprayed On Insulation (07 21 29)		
07 21 29 00-0005	SF		1" Thick, Spray-on Cellulose Insulation	3.09	0.67
07 21 53			Reflective Insulation (07 21)		
07 21 53 00-0001			Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)		
07 21 53 00-0002	SF		3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space.....	1.13	
07 22			Roof and Deck Insulation (07 20)		
07 22 16			Roof Board Insulation (07 22)		
			Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 22 16 00-0001			Rigid Board Roofing Insulation (07 22 16)		
			Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.		
07 22 16 00-0002			Cold Adhesive Applied Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0003			Cold Adhesive Applied, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0004	SF		1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	1.97	
07 22 16 00-0005	SF		25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.21	
07 22 16 00-0006	SF		1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.43	
07 22 16 00-0007	SF		1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.86	
07 22 16 00-0008	SF		2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	3.28	
07 22 16 00-0009			Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0010	SF		1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	2.34	
07 22 16 00-0011	SF		1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	2.37	
07 22 16 00-0012			Cold Adhesive Applied, Perlite, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0013	SF		1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied	1.87	
07 22 16 00-0014	SF		1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied	1.87	
07 22 16 00-0015	SF		3/4" Thick, R2.08, Perlite, Roof Board Insulation, Cold Adhesive Applied	1.99	
07 22 16 00-0016	SF		1" Thick, R2.78, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.14	
07 22 16 00-0017	SF		1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.49	
07 22 16 00-0018	SF		2" Thick, R5.56, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.72	
07 22 16 00-0019			Cold Adhesive Applied, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0020	SF		1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	2.33	
07 22 16 00-0021	SF		2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	2.89	
07 22 16 00-0022	SF		3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	3.57	
07 22 16 00-0023			Cold Adhesive Applied, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0024	SF		1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	3.73	
07 22 16 00-0025	SF		2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	4.27	
07 22 16 00-0026	SF		2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	5.35	
07 22 16 00-0027	SF		3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	10.28	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0028 Cold Adhesive Applied, Molded Expanded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0002)</small>		
07 22 16 00-0029	SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.04
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0030	SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	1.92
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0031	SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.06
	<i>For Loose-Laid, Deduct</i>	-1.10
07 22 16 00-0032	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.20
	<i>For Loose-Laid, Deduct</i>	-1.11
07 22 16 00-0033	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.73
	<i>For Loose-Laid, Deduct</i>	-1.12
07 22 16 00-0034	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	3.27
	<i>For Loose-Laid, Deduct</i>	-1.13
07 22 16 00-0035	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	3.81
	<i>For Loose-Laid, Deduct</i>	-1.15
07 22 16 00-0036	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	4.35
	<i>For Loose-Laid, Deduct</i>	-1.16
07 22 16 00-0037	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	4.88
	<i>For Loose-Laid, Deduct</i>	-1.18
07 22 16 00-0038 Cold Adhesive Applied, Extruded Polystyrene, Roof Board Insulation <small>(07 22 16 00-0002)</small>		
	Note: 15 PSI compressive strength.	
07 22 16 00-0039	SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	2.70
	<i>For Loose-Laid, Deduct</i>	-1.05
	<i>For 25 PSI Compressive Strength, Add</i>	0.27
	<i>For 40 PSI Compressive Strength, Add</i>	0.64
	<i>For 60 PSI Compressive Strength, Add</i>	1.03
	<i>For 115 PSI Compressive Strength, Add</i>	4.42
07 22 16 00-0040	SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	2.28
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For 25 PSI Compressive Strength, Add</i>	0.20
	<i>For 40 PSI Compressive Strength, Add</i>	0.48
	<i>For 60 PSI Compressive Strength, Add</i>	0.78
	<i>For 115 PSI Compressive Strength, Add</i>	3.32
07 22 16 00-0041	SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.47
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For 25 PSI Compressive Strength, Add</i>	0.39
	<i>For 40 PSI Compressive Strength, Add</i>	0.93
	<i>For 60 PSI Compressive Strength, Add</i>	1.47
	<i>For 100 PSI Compressive Strength, Add</i>	1.88
	<i>For 115 PSI Compressive Strength, Add</i>	6.37
07 22 16 00-0042	SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.00
	<i>For Loose-Laid, Deduct</i>	-1.07
	<i>For 25 PSI Compressive Strength, Add</i>	0.31
	<i>For 40 PSI Compressive Strength, Add</i>	0.74
	<i>For 60 PSI Compressive Strength, Add</i>	1.18
	<i>For 115 PSI Compressive Strength, Add</i>	5.12
07 22 16 00-0043	SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.75
	<i>For Loose-Laid, Deduct</i>	-1.07
	<i>For 25 PSI Compressive Strength, Add</i>	0.59
	<i>For 40 PSI Compressive Strength, Add</i>	1.41
	<i>For 60 PSI Compressive Strength, Add</i>	2.20
	<i>For 100 PSI Compressive Strength, Add</i>	2.83
	<i>For 115 PSI Compressive Strength, Add</i>	9.61
07 22 16 00-0044	SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.73
	<i>For Loose-Laid, Deduct</i>	-1.08
	<i>For 25 PSI Compressive Strength, Add</i>	0.42
	<i>For 40 PSI Compressive Strength, Add</i>	1.01
	<i>For 60 PSI Compressive Strength, Add</i>	1.59
	<i>For 115 PSI Compressive Strength, Add</i>	6.92
07 22 16 00-0045	SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.10
	<i>For Loose-Laid, Deduct</i>	-1.09
	<i>For 25 PSI Compressive Strength, Add</i>	0.48
	<i>For 40 PSI Compressive Strength, Add</i>	1.14
	<i>For 60 PSI Compressive Strength, Add</i>	1.80
	<i>For 115 PSI Compressive Strength, Add</i>	7.82
07 22 16 00-0046 Cold Adhesive Applied, Polyisocyanurate Board Roofing Insulation <small>(07 22 16 00-0002)</small>		
07 22 16 00-0047	SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.43
	<i>For Loose-Laid, Deduct</i>	-1.05
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.14
07 22 16 00-0048	SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.53
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.15
07 22 16 00-0049	SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.66
	<i>For Loose-Laid, Deduct</i>	-1.06
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0050 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.03	
<i>For Loose-Laid, Deduct</i>	-1.07	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.20	
07 22 16 00-0051 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.41	
<i>For Loose-Laid, Deduct</i>	-1.08	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
07 22 16 00-0052 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	3.77	
<i>For Loose-Laid, Deduct</i>	-1.08	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.27	
07 22 16 00-0053 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	4.17	
<i>For Loose-Laid, Deduct</i>	-1.09	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.31	
07 22 16 00-0054 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied.....	4.52	
<i>For Loose-Laid, Deduct</i>	-1.09	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.34	
07 22 16 00-0055 Cold Adhesive Applied, High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0056 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Cold Adhesive Applied.....	2.76	
07 22 16 00-0057 Cold Adhesive Applied, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0058 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.62	
07 22 16 00-0059 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.77	
07 22 16 00-0060 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.87	
07 22 16 00-0061 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	2.92	
07 22 16 00-0062 Cold Adhesive Applied, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0063 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.57	
07 22 16 00-0064 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.80	
07 22 16 00-0065 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied.....	2.85	
07 22 16 00-0066 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation (07 22 16 00-0002)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0067 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.40	
07 22 16 00-0068 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.61	
07 22 16 00-0069 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.90	
07 22 16 00-0070 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.08	
07 22 16 00-0071 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.52	
07 22 16 00-0072 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.69	
07 22 16 00-0073 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.00	
07 22 16 00-0074 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0002)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.		
07 22 16 00-0075 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.44	
07 22 16 00-0076 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	4.82	
07 22 16 00-0077 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.27	
07 22 16 00-0078 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.56	
07 22 16 00-0079 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.94	
07 22 16 00-0080 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.34	
07 22 16 00-0081 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.08	
07 22 16 00-0082 Hot-Mopped Rigid Board Roofing Insulation (07 22 16 00-0001)		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0083 Hot-Mopped, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0084 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	1.79	
07 22 16 00-0085 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.02	
07 22 16 00-0086 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.26	
07 22 16 00-0087 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	2.69	
07 22 16 00-0088 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped.....	3.13	
07 22 16 00-0089 Hot-Mopped, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0090 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped.....	2.16	
07 22 16 00-0091 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped.....	2.20	
07 22 16 00-0092 Hot-Mopped, Perlite, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0093 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Hot-Mopped.....	1.67	
07 22 16 00-0094 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Hot-Mopped.....	1.79	
07 22 16 00-0095 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Hot-Mopped.....	1.94	
07 22 16 00-0096 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Hot-Mopped.....	2.29	
07 22 16 00-0097 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Hot-Mopped.....	2.52	
07 22 16 00-0098 Hot-Mopped, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0099 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	2.13	
07 22 16 00-0100 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	2.69	
07 22 16 00-0101 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped.....	3.38	
07 22 16 00-0102 Hot-Mopped, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0103 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	3.52	
07 22 16 00-0104 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	4.06	
07 22 16 00-0105 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	5.17	
07 22 16 00-0106 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped.....	10.10	
07 22 16 00-0107 Hot-Mopped, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0108 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.85	
07 22 16 00-0109 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.74	
07 22 16 00-0110 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.76	
07 22 16 00-0111 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	1.99	
07 22 16 00-0112 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	2.53	
07 22 16 00-0113 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	3.08	
07 22 16 00-0114 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	3.62	
07 22 16 00-0115 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	4.17	
07 22 16 00-0116 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped.....	4.70	
07 22 16 00-0117 Hot-Mopped, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
Note: 15 PSI compressive strength.		
07 22 16 00-0118 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	2.50	
For 25 PSI Compressive Strength, Add	0.22	
For 40 PSI Compressive Strength, Add	0.52	
For 60 PSI Compressive Strength, Add	0.86	
For 115 PSI Compressive Strength, Add	3.66	
07 22 16 00-0119 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	2.08	
For 25 PSI Compressive Strength, Add	0.15	
For 40 PSI Compressive Strength, Add	0.36	
For 60 PSI Compressive Strength, Add	0.61	
For 115 PSI Compressive Strength, Add	2.55	
07 22 16 00-0120 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	3.27	
For 25 PSI Compressive Strength, Add	0.34	
For 40 PSI Compressive Strength, Add	0.81	
For 60 PSI Compressive Strength, Add	1.30	
For 100 PSI Compressive Strength, Add	1.66	
For 115 PSI Compressive Strength, Add	5.61	
07 22 16 00-0121 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	2.93	
For 25 PSI Compressive Strength, Add	0.26	
For 40 PSI Compressive Strength, Add	0.63	
For 60 PSI Compressive Strength, Add	1.02	
For 115 PSI Compressive Strength, Add	4.37	
07 22 16 00-0122 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	14.99	
For 25 PSI Compressive Strength, Add	0.54	
For 40 PSI Compressive Strength, Add	1.29	
For 60 PSI Compressive Strength, Add	2.55	
For 100 PSI Compressive Strength, Add	3.13	
For 115 PSI Compressive Strength, Add	9.90	
07 22 16 00-0123 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped.....	3.54	
For 25 PSI Compressive Strength, Add	0.37	
For 40 PSI Compressive Strength, Add	0.89	
For 60 PSI Compressive Strength, Add	1.42	
For 115 PSI Compressive Strength, Add	6.13	



Thermal And Moisture Protection		07
Thermal Protection		07 20
Roof and Deck Insulation		07 22

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0124 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.91	
For 25 PSI Compressive Strength, Add	0.43	
For 40 PSI Compressive Strength, Add	1.02	
For 60 PSI Compressive Strength, Add	1.62	
For 115 PSI Compressive Strength, Add	7.04	
07 22 16 00-0125 Hot-Mopped, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0082)		
07 22 16 00-0126 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.23	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.11	
07 22 16 00-0127 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.32	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.12	
07 22 16 00-0128 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.46	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.13	
07 22 16 00-0129 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	2.83	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.17	
07 22 16 00-0130 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.22	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.20	
07 22 16 00-0131 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.59	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.24	
07 22 16 00-0132 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	3.87	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.28	
07 22 16 00-0133 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped	4.34	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.31	
07 22 16 00-0134 Hot-Mopped, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0135 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.44	
07 22 16 00-0136 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.59	
07 22 16 00-0137 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.69	
07 22 16 00-0138 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.74	
07 22 16 00-0139 Hot-Mopped, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0140 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.39	
07 22 16 00-0141 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.61	
07 22 16 00-0142 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.66	
07 22 16 00-0143 Mechanically Fastened Rigid Board Roofing Insulation (07 22 16 00-0001)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0144 Mechanically Fastened, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0145 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	1.71	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0146 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	1.94	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.12	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.00	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0147 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	2.17	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0148 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	2.64	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0149 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	3.06	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.71	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0150 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0151 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	2.07	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0152 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	2.10	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.02	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0153 Mechanically Fastened, Perlite, Roof Board Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0154 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Mechanically Fastened.....	1.60	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0155 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Mechanically Fastened.....	1.73	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.93	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0156 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Mechanically Fastened.....	1.88	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.93	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0157 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Mechanically Fastened	2.28	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0158 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Mechanically Fastened	2.51	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0159 Mechanically Fastened, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0160 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	2.07	
<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0161 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	2.68	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0162 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	3.41	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0163 Mechanically Fastened, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0164 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	3.51	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0165 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	4.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0166 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	5.20	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0167 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	10.21	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.72	

07 Thermal And Moisture Protection

07 20 Thermal Protection

07 22 Roof and Deck Insulation

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0168		Mechanically Fastened, Molded Expanded Polystyrene, Roof Board Insulation	
		<small>(07 22 16 00-0143)</small>	
		Note: Mechanically fastened to wood or steel.	
07 22 16 00-0169	SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.77	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.08	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.96	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0170	SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.66	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.08	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.96	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0171	SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.79	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.08	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.96	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0172	SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	1.93	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.08	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.96	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0173	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.51	
	For Mechanically Fastened To Concrete, Add	1.48	
	For Mechanically Fastened To Gypsum, Add	1.71	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0174	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.11	
	For Mechanically Fastened To Concrete, Add	1.52	
	For Mechanically Fastened To Gypsum, Add	1.77	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.31	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.28	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 22 16 00-0175	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.74	
	For Mechanically Fastened To Concrete, Add	1.56	
	For Mechanically Fastened To Gypsum, Add	1.79	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0176	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	4.39	
	For Mechanically Fastened To Concrete, Add	1.61	
	For Mechanically Fastened To Gypsum, Add	1.79	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.80	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.00	
07 22 16 00-0177	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	5.46	
	For Mechanically Fastened To Concrete, Add	1.65	
	For Mechanically Fastened To Gypsum, Add	1.58	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.97	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.25	



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0178	Mechanically Fastened, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0143) Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 22 16 00-0179	SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	2.44	
	For 25 PSI Compressive Strength, Add	0.23	
	For 40 PSI Compressive Strength, Add	0.54	
	For 60 PSI Compressive Strength, Add	0.87	
	For 115 PSI Compressive Strength, Add	3.75	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.93	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0180	SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	2.02	
	For 25 PSI Compressive Strength, Add	0.16	
	For 40 PSI Compressive Strength, Add	0.38	
	For 60 PSI Compressive Strength, Add	0.63	
	For 115 PSI Compressive Strength, Add	2.65	
	For Mechanically Fastened To Concrete, Add	1.43	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.93	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0181	SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.26	
	For 25 PSI Compressive Strength, Add	0.36	
	For 40 PSI Compressive Strength, Add	0.85	
	For 60 PSI Compressive Strength, Add	1.34	
	For 100 PSI Compressive Strength, Add	1.72	
	For 115 PSI Compressive Strength, Add	5.83	
	For Mechanically Fastened To Concrete, Add	1.48	
	For Mechanically Fastened To Gypsum, Add	1.75	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0182	SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	2.79	
	For 25 PSI Compressive Strength, Add	0.28	
	For 40 PSI Compressive Strength, Add	0.66	
	For 60 PSI Compressive Strength, Add	1.06	
	For 115 PSI Compressive Strength, Add	4.58	
	For Mechanically Fastened To Concrete, Add	1.48	
	For Mechanically Fastened To Gypsum, Add	1.71	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.06	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.09	
07 22 16 00-0183	SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	4.59	
	For 25 PSI Compressive Strength, Add	0.57	
	For 40 PSI Compressive Strength, Add	1.35	
	For 60 PSI Compressive Strength, Add	2.11	
	For 100 PSI Compressive Strength, Add	2.71	
	For 115 PSI Compressive Strength, Add	9.20	
	For Mechanically Fastened To Concrete, Add	1.52	
	For Mechanically Fastened To Gypsum, Add	1.74	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.27	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.14	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.24	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0184	SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.57	
	For 25 PSI Compressive Strength, Add	0.40	
	For 40 PSI Compressive Strength, Add	0.95	
	For 60 PSI Compressive Strength, Add	1.50	
	For 115 PSI Compressive Strength, Add	6.51	
	For Mechanically Fastened To Concrete, Add	1.52	
	For Mechanically Fastened To Gypsum, Add	1.77	
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.28	
	For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.25	
	For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0185	SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	4.03
	<i>For 25 PSI Compressive Strength, Add</i>	0.47
	<i>For 40 PSI Compressive Strength, Add</i>	1.11
	<i>For 60 PSI Compressive Strength, Add</i>	1.75
	<i>For 115 PSI Compressive Strength, Add</i>	7.64
	<i>For Mechanically Fastened To Concrete, Add</i>	1.56
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.79
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.28
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.43

07 22 16 00-0186 Mechanically Fastened, Polyisocyanurate Board Roofing Insulation (0722 16 00-0143)

Note: Mechanically fastened to wood or steel.

07 22 16 00-0187	SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.17
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.12
	<i>For Mechanically Fastened To Concrete, Add</i>	1.43
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.75
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07
07 22 16 00-0188	SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.26
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.12
	<i>For Mechanically Fastened To Concrete, Add</i>	1.43
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.75
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.93
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07
07 22 16 00-0189	SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.45
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.14
	<i>For Mechanically Fastened To Concrete, Add</i>	1.48
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.75
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07
07 22 16 00-0190	SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.82
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.18
	<i>For Mechanically Fastened To Concrete, Add</i>	1.48
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.71
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09
07 22 16 00-0191	SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.25
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.22
	<i>For Mechanically Fastened To Concrete, Add</i>	1.52
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.74
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.27
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.24
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22
07 22 16 00-0192	SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.61
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.25
	<i>For Mechanically Fastened To Concrete, Add</i>	1.52
	<i>For Mechanically Fastened To Gypsum, Add</i>	1.77
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.28
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.25
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0193 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened.....	4.10	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.30	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.69	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.72	
07 22 16 00-0194 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened.....	4.45	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.34	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0195 Mechanically Fastened, High-Density Polyisocyanurate Cover Board And Roofing Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0196 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Mechanically Fastened.....	2.50	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0197 Mechanically Fastened, Gypsum-Fiber, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0198 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.36	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0199 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.51	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0200 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.61	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0201 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened.....	2.66	
For Mechanically Fastened To Concrete, Add	1.43	
For Mechanically Fastened To Gypsum, Add	1.75	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.50	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.09	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.76	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.97	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0202 Mechanically Fastened, Glass-Mat, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0203	SF	1/4"	Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.30	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.09	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.97	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0204	SF	1/2"	Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.53	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.09	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.97	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0205	SF	5/8"	Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.58	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.09	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.97	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0206			Mechanically Fastened, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation <small>(07 22 16 00-0143)</small>		
			Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.		
07 22 16 00-0207	SF	1.5"	Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.19	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0208	SF	2"	Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.40	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.71	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.09	
07 22 16 00-0209	SF	2.5"	Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.75	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.41	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0210	SF	3"	Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.92	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.77	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.44	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.41	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0211	SF	3.5"	Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.45	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.89	



Thermal And Moisture Protection		07
Thermal Protection		07 20
Roof and Deck Insulation		07 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0212 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.62	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0213 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.04	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.97	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0214 Mechanically Fastened, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0143)		
Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.		
07 22 16 00-0215 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.29	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.43	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.40	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0216 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	4.66	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.43	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.40	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 22 16 00-0217 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.20	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.75	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 22 16 00-0218 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.49	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.28	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0219 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.98	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.92	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.12	
07 22 16 00-0220 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.38	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.93	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.13	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0221	SF		5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	7.51	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.13	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.41	
07 22 16 00-0222			Rigid Board Tapered Roofing Insulation (07 22 16) Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or cover board.		
07 22 16 00-0223			Cold Adhesive Applied Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0224			Cold Adhesive Applied, Tapered Polyisocyanurate Board (07 22 16 00-0223) Note: Includes polyurethane adhesive.		
07 22 16 00-0225			Cold Adhesive Applied, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0224)		
07 22 16 00-0226	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.28	
			<i>For 25 PSI Compressive Strength, Add</i>	0.27	
07 22 16 00-0227	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.01	
			<i>For 25 PSI Compressive Strength, Add</i>	0.32	
07 22 16 00-0228	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.49	
			<i>For 25 PSI Compressive Strength, Add</i>	0.37	
07 22 16 00-0229	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.98	
			<i>For 25 PSI Compressive Strength, Add</i>	0.42	
07 22 16 00-0230	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.46	
			<i>For 25 PSI Compressive Strength, Add</i>	0.47	
07 22 16 00-0231	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.20	
			<i>For 25 PSI Compressive Strength, Add</i>	0.52	
07 22 16 00-0232	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.69	
			<i>For 25 PSI Compressive Strength, Add</i>	0.57	
07 22 16 00-0233	SF		5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.17	
			<i>For 25 PSI Compressive Strength, Add</i>	0.62	
07 22 16 00-0234	SF		6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.66	
			<i>For 25 PSI Compressive Strength, Add</i>	0.66	
07 22 16 00-0235	SF		6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.38	
			<i>For 25 PSI Compressive Strength, Add</i>	0.71	
07 22 16 00-0236			Cold Adhesive Applied, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0234)		
07 22 16 00-0237	SF		2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.04	
			<i>For 25 PSI Compressive Strength, Add</i>	0.25	
07 22 16 00-0238	SF		3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.25	
			<i>For 25 PSI Compressive Strength, Add</i>	0.35	
07 22 16 00-0239	SF		4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.22	
			<i>For 25 PSI Compressive Strength, Add</i>	0.44	
07 22 16 00-0240	SF		5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.45	
			<i>For 25 PSI Compressive Strength, Add</i>	0.54	
07 22 16 00-0241	SF		6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.42	
			<i>For 25 PSI Compressive Strength, Add</i>	0.64	
07 22 16 00-0242	SF		7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.62	
			<i>For 25 PSI Compressive Strength, Add</i>	0.74	
07 22 16 00-0243			Cold Adhesive Applied, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0241)		
07 22 16 00-0244	SF		3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	6.73	
			<i>For 25 PSI Compressive Strength, Add</i>	0.40	
07 22 16 00-0245	SF		5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	9.93	
			<i>For 25 PSI Compressive Strength, Add</i>	0.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0246 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	13.10	
<i>For 25 PSI Compressive Strength, Add</i>	0.79	
07 22 16 00-0247 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied	16.30	
<i>For 25 PSI Compressive Strength, Add</i>	0.98	
07 22 16 00-0248 Cold Adhesive Applied, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0223)</small>		
<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0249 Cold Adhesive Applied, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0250 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	3.73	
07 22 16 00-0251 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	5.47	
07 22 16 00-0252 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	5.83	
07 22 16 00-0253 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.20	
07 22 16 00-0254 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.56	
07 22 16 00-0255 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	8.31	
07 22 16 00-0256 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	8.67	
07 22 16 00-0257 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.03	
07 22 16 00-0258 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.40	
07 22 16 00-0259 SF 6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	11.12	
07 22 16 00-0260 Cold Adhesive Applied, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0261 SF 2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	3.55	
07 22 16 00-0262 SF 3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	5.65	
07 22 16 00-0263 SF 4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	6.38	
07 22 16 00-0264 SF 5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	8.49	
07 22 16 00-0265 SF 6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	9.22	
07 22 16 00-0266 SF 7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	11.31	
07 22 16 00-0267 Cold Adhesive Applied, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0268 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	6.01	
07 22 16 00-0269 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	8.85	
07 22 16 00-0270 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	11.67	
07 22 16 00-0271 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	14.87	
07 22 16 00-0272 Cold Adhesive Applied, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0223)</small>		
<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0273 Cold Adhesive Applied, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0274 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	4.17	
07 22 16 00-0275 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	5.90	
07 22 16 00-0276 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	6.36	
07 22 16 00-0277 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	6.82	
07 22 16 00-0278 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	7.28	
07 22 16 00-0279 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	9.03	
07 22 16 00-0280 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	9.49	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0281 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.95	
07 22 16 00-0282 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.41	
07 22 16 00-0283 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.13	
07 22 16 00-0284 Cold Adhesive Applied, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0285 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	3.94	
07 22 16 00-0286 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.13	
07 22 16 00-0287 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.05	
07 22 16 00-0288 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.26	
07 22 16 00-0289 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.18	
07 22 16 00-0290 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.36	
07 22 16 00-0291 Cold Adhesive Applied, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0292 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	6.59	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77	
07 22 16 00-0293 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	9.72	
07 22 16 00-0294 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.82	
07 22 16 00-0295 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	15.94	
07 22 16 00-0296 Cold Adhesive Applied, Tapered Perlite Board (07 22 16 00-0223) Note: Includes polyurethane adhesive.		
07 22 16 00-0297 Cold Adhesive Applied, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0298 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	5.01	
07 22 16 00-0299 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.07	
07 22 16 00-0300 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.80	
07 22 16 00-0301 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.14	
07 22 16 00-0302 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.88	
07 22 16 00-0303 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.94	
07 22 16 00-0304 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	9.68	
07 22 16 00-0305 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.01	
07 22 16 00-0306 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.75	
07 22 16 00-0307 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.80	
07 22 16 00-0308 Cold Adhesive Applied, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0309 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	4.64	
07 22 16 00-0310 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.44	
07 22 16 00-0311 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.51	
07 22 16 00-0312 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	9.31	
07 22 16 00-0313 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.38	
07 22 16 00-0314 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	12.17	
07 22 16 00-0315 Cold Adhesive Applied, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0316 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.17	
07 22 16 00-0317 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.04	
07 22 16 00-0318 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	12.90	
07 22 16 00-0319 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	15.77	
07 22 16 00-0320 Hot-Mopped Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0321 Hot-Mopped, Tapered Polyisocyanurate Board (07 22 16 00-0320)		
07 22 16 00-0322 Hot-Mopped, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0323 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	3.97	
For 25 PSI Compressive Strength, Add	0.24	
07 22 16 00-0324 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	5.73	
For 25 PSI Compressive Strength, Add	0.27	
07 22 16 00-0325 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.21	
For 25 PSI Compressive Strength, Add	0.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0326 SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.41	
<i>For 25 PSI Compressive Strength, Add</i>	0.36	
07 22 16 00-0327 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	7.18	
<i>For 25 PSI Compressive Strength, Add</i>	0.41	
07 22 16 00-0328 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	8.78	
<i>For 25 PSI Compressive Strength, Add</i>	0.44	
07 22 16 00-0329 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.27	
<i>For 25 PSI Compressive Strength, Add</i>	0.48	
07 22 16 00-0330 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.75	
<i>For 25 PSI Compressive Strength, Add</i>	0.53	
07 22 16 00-0331 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	10.23	
<i>For 25 PSI Compressive Strength, Add</i>	0.58	
07 22 16 00-0332 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	11.82	
<i>For 25 PSI Compressive Strength, Add</i>	0.60	
07 22 16 00-0333 Hot-Mopped, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0321)</small>		
07 22 16 00-0334 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	3.89	
<i>For 25 PSI Compressive Strength, Add</i>	0.22	
07 22 16 00-0335 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	5.97	
<i>For 25 PSI Compressive Strength, Add</i>	0.29	
07 22 16 00-0336 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	6.94	
<i>For 25 PSI Compressive Strength, Add</i>	0.39	
07 22 16 00-0337 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	9.02	
<i>For 25 PSI Compressive Strength, Add</i>	0.46	
07 22 16 00-0338 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	9.99	
<i>For 25 PSI Compressive Strength, Add</i>	0.56	
07 22 16 00-0339 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped	12.06	
<i>For 25 PSI Compressive Strength, Add</i>	0.63	
07 22 16 00-0340 Hot-Mopped, 1/2" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0321)</small>		
07 22 16 00-0341 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.45	
<i>For 25 PSI Compressive Strength, Add</i>	0.34	
07 22 16 00-0342 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	9.51	
<i>For 25 PSI Compressive Strength, Add</i>	0.51	
07 22 16 00-0343 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	12.54	
<i>For 25 PSI Compressive Strength, Add</i>	0.68	
07 22 16 00-0344 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	15.59	
<i>For 25 PSI Compressive Strength, Add</i>	0.85	
07 22 16 00-0345 Hot-Mopped, Tapered Perlite Board <small>(07 22 16 00-0320)</small>		
07 22 16 00-0346 Hot-Mopped, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>		
07 22 16 00-0347 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	4.35	
07 22 16 00-0348 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	5.79	
07 22 16 00-0349 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.53	
07 22 16 00-0350 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.35	
07 22 16 00-0351 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	7.08	
07 22 16 00-0352 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	8.52	
07 22 16 00-0353 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.25	
07 22 16 00-0354 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.07	
07 22 16 00-0355 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.81	
07 22 16 00-0356 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	11.24	
07 22 16 00-0357 Hot-Mopped, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>		
07 22 16 00-0358 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	3.98	
07 22 16 00-0359 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	6.16	
07 22 16 00-0360 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	6.71	
07 22 16 00-0361 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	8.88	
07 22 16 00-0362 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	9.44	
07 22 16 00-0363 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	11.61	
07 22 16 00-0364 Hot-Mopped, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0345)</small>		
07 22 16 00-0365 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	6.89	
07 22 16 00-0366 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	9.62	
07 22 16 00-0367 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	64.38	
07 22 16 00-0368 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	15.06	
07 22 16 00-0369 Mechanically Fastened Tapered Roofing Insulation <small>(07 22 16 00-0222)</small>		
Note: Mechanically fastened to wood or steel. Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.		
07 22 16 00-0370 Mechanically Fastened, Tapered Polyisocyanurate Board <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0371 Mechanically Fastened, 1/8" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0370)</small>		

07 Thermal And Moisture Protection

07 20 Thermal Protection

07 22 Roof and Deck Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0372	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	4.06	
			For 25 PSI Compressive Strength, Add	0.25	
			For Mechanically Fastened To Concrete, Add	1.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0373	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.33	
			For 25 PSI Compressive Strength, Add	0.26	
			For Mechanically Fastened To Concrete, Add	1.52	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0374	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.81	
			For 25 PSI Compressive Strength, Add	0.30	
			For Mechanically Fastened To Concrete, Add	1.52	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.17	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 22 16 00-0375	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.39	
			For 25 PSI Compressive Strength, Add	0.36	
			For Mechanically Fastened To Concrete, Add	1.56	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36	
07 22 16 00-0376	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.87	
			For 25 PSI Compressive Strength, Add	0.41	
			For Mechanically Fastened To Concrete, Add	1.56	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.28	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.43	
07 22 16 00-0377	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.21	
			For 25 PSI Compressive Strength, Add	0.42	
			For Mechanically Fastened To Concrete, Add	1.61	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	
07 22 16 00-0378	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.69	
			For 25 PSI Compressive Strength, Add	0.47	
			For Mechanically Fastened To Concrete, Add	1.61	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	



Thermal And Moisture Protection			07
Thermal Protection			07 20
Roof and Deck Insulation			07 22

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0379 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.56	
For 25 PSI Compressive Strength, Add	0.55	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0380 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	10.05	
For 25 PSI Compressive Strength, Add	0.60	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0381 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.20	
For 25 PSI Compressive Strength, Add	0.60	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0382 Mechanically Fastened, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0379)		
07 22 16 00-0383 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	3.82	
For 25 PSI Compressive Strength, Add	0.23	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0384 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	5.57	
For 25 PSI Compressive Strength, Add	0.28	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0385 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.63	
For 25 PSI Compressive Strength, Add	0.39	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36	
07 22 16 00-0386 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.45	
For 25 PSI Compressive Strength, Add	0.44	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0387 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.81	
For 25 PSI Compressive Strength, Add	0.58	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0388 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.44	
For 25 PSI Compressive Strength, Add	0.62	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0389 Mechanically Fastened, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0370)		
07 22 16 00-0390 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.05	
For 25 PSI Compressive Strength, Add	0.33	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.27	
07 22 16 00-0391 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.71	
For 25 PSI Compressive Strength, Add	0.47	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	
07 22 16 00-0392 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.92	
For 25 PSI Compressive Strength, Add	0.67	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0393 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	15.07	
For 25 PSI Compressive Strength, Add	0.86	
For Mechanically Fastened To Concrete, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.86	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.47	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.80	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.20	
07 22 16 00-0394 Mechanically Fastened, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0389)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0395 Mechanically Fastened, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0396 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.52	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0397 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.79	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0398 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.15	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0399 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.61	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0400 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.97	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0401 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.31	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0402 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.67	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0403 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.43	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0404 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.79	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0405	SF		6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.94	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0406			Mechanically Fastened, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0407	SF		2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	3.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0408	SF		3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.97	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0409	SF		4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.79	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0410	SF		5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.49	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0411	SF		6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.61	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0412	SF		7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.13	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	

07 22 16 00-0413 Mechanically Fastened, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0414 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.34	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0415 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.86	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0416 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.49	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0417 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	13.64	
<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
07 22 16 00-0418 Mechanically Fastened, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0419 Mechanically Fastened, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0420 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	3.96	
<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0421 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.22	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	
07 22 16 00-0422 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.76	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0423 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.23	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0424	SF		4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.69	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.28	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.43	
07 22 16 00-0425	SF		4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0426	SF		5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.49	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0427	SF		5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.34	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0428	SF		6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.80	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0429	SF		6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.95	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0430			Mechanically Fastened, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0418)		
07 22 16 00-0431	SF		2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	3.73	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.70	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.63	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.82	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.95	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.75	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 22 16 00-0432	SF		3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.45	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.14	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0433 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.46	
<i>For Mechanically Fastened To Concrete, Add</i>	1.56	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.74	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.84	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.05	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.27	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.08	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.36	
07 22 16 00-0434 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.26	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0435 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.57	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.58	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.42	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.55	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.12	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.96	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.83	
07 22 16 00-0436 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.18	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0437 Mechanically Fastened, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0438 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	5.91	
<i>For Mechanically Fastened To Concrete, Add</i>	1.52	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.77	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	1.92	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.17	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.08	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.27	
07 22 16 00-0439 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0440 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.64	
<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0441 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	14.56	
<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
07 22 16 00-0442 Mechanically Fastened, Tapered Perlite Board <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection

07 20 Thermal Protection

07 22 Roof and Deck Insulation

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0443	Mechanically Fastened, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>	
07 22 16 00-0444	SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	4.28
	For Mechanically Fastened To Concrete, Add	1.48
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07
07 22 16 00-0445	SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	5.39
	For Mechanically Fastened To Concrete, Add	1.52
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22
07 22 16 00-0446	SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.13
	For Mechanically Fastened To Concrete, Add	1.52
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.17
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.27
07 22 16 00-0447	SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.04
	For Mechanically Fastened To Concrete, Add	1.56
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36
07 22 16 00-0448	SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.77
	For Mechanically Fastened To Concrete, Add	1.56
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.28
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.43
07 22 16 00-0449	SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.94
	For Mechanically Fastened To Concrete, Add	1.61
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59
07 22 16 00-0450	SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.68
	For Mechanically Fastened To Concrete, Add	1.61
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59
07 22 16 00-0451	SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.89
	For Mechanically Fastened To Concrete, Add	1.65
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83
07 22 16 00-0452	SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.62
	For Mechanically Fastened To Concrete, Add	1.65
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58
	For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42
	For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55
	For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12
	For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96
	For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0453 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.62	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0454 Mechanically Fastened, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0455 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	3.91	
For Mechanically Fastened To Concrete, Add	1.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.70	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.63	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.82	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	0.95	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.75	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.07	
07 22 16 00-0456 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	5.76	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.14	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.22	
07 22 16 00-0457 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.41	
For Mechanically Fastened To Concrete, Add	1.56	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.74	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.84	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.05	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.23	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.27	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.08	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.36	
07 22 16 00-0458 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.31	
For Mechanically Fastened To Concrete, Add	1.61	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.00	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.39	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.49	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.32	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.59	
07 22 16 00-0459 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.25	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.58	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.42	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.55	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.12	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.96	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.83	
07 22 16 00-0460 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.99	
For Mechanically Fastened To Concrete, Add	1.65	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.84	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.37	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.17	
07 22 16 00-0461 Mechanically Fastened, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0462 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.49	
For Mechanically Fastened To Concrete, Add	1.52	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.77	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	1.92	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.17	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.08	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	2.89	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.27	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0463	SF		5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.61	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.00	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.21	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.39	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.49	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.59	
07 22 16 00-0464	SF		7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	11.72	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.65	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.84	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.37	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	
07 22 16 00-0465	SF		9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	14.54	
			<i>For Mechanically Fastened To Concrete, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.86	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.47	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.77	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.80	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.20	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.17	

07 22 16 00-0466 Demolish Rigid Board Roofing Insulation (07 22 16)

Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).

07 22 16 00-0467	SF		Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation	0.57	
07 22 16 00-0468	SF		Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation.....	0.59	
07 22 16 00-0469	SF		Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation	0.60	
07 22 16 00-0470	SF		Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation	0.63	
07 22 16 00-0471	SF		Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation	0.64	
07 22 16 00-0472	SF		Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation	0.66	
07 22 16 00-0473	SF		Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation	0.67	
07 22 16 00-0474	SF		Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation	0.69	
07 22 16 00-0475	SF		Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation	0.70	
07 22 16 00-0476	SF		Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation	0.72	
07 22 16 00-0477	SF		Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation.....	0.74	
07 22 16 00-0478	SF		Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation.....	0.76	
07 22 16 00-0479	SF		Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation.....	0.77	

07 25 Weather Barriers (07)**07 26 Vapor Retarders (07 25)****07 26 13 Above-Grade Vapor Retarders (07 26)**

07 26 13 00-0001	CSF		Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B)	30.24	
07 26 13 00-0002	CSF		Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex)	28.43	
07 26 13 00-0003	CSF		60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute)	34.24	
07 26 13 00-0004	CSF		Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute).....	42.78	
07 26 13 00-0005	CSF		Regular Weight Red Rosin Sized Sheathing	27.71	
07 26 13 00-0006	CLF		6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....	90.01	
07 26 13 00-0007	CLF		4" Wide Self Adhering Butyl Sealing Tape	130.04	
07 26 13 00-0008	CLF		6" Wide Self Adhesive Butyl Sealing Tape.....	183.74	
07 26 13 00-0009	CLF		9" Wide Self Adhesive Butyl Sealing Tape.....	250.36	
07 26 13 00-0010	CSF		Building Wrap (Tyvek).....	75.97	

07 27 Air Barriers (07 25)**07 27 23 Board Product Air Barriers (07 27)****07 27 23 00-0001 Barriers For Plenums (07 27 23)**

07 27 23 00-0002	SF		0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF	11.99	3.51
			<i>For Up To 50, Add</i>	4.55	
			<i>For >50 To 200, Add</i>	2.58	
			<i>For >200 To 500, Add</i>	0.94	
			<i>For >2,500, Deduct</i>	-0.60	
07 27 23 00-0003	SF		0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF	13.00	3.51
			<i>For Up To 50, Add</i>	4.97	
			<i>For >50 To 200, Add</i>	2.81	
			<i>For >200 To 500, Add</i>	1.03	
			<i>For >2,500, Deduct</i>	-0.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 27 23 00-0004 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....	4.87	2.34
<i>For Up To 50, Add</i>	2.43	
<i>For >50 To 200, Add</i>	1.34	
<i>For >200 To 500, Add</i>	0.46	
<i>For >2,500, Deduct</i>	-0.24	
07 27 23 00-0005 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick.....	8.85	3.51
<i>For Up To 50, Add</i>	4.35	
<i>For >50 To 200, Add</i>	2.40	
<i>For >200 To 500, Add</i>	0.82	
<i>For >2,500, Deduct</i>	-0.44	
07 27 23 00-0006 SF Aluminum Mesh Barrier For Plenum Kraft Paper Backed.....	6.41	2.34
<i>For Up To 50, Add</i>	2.67	
<i>For >50 To 200, Add</i>	1.49	
<i>For >200 To 500, Add</i>	0.53	
<i>For >2,500, Deduct</i>	-0.32	
07 27 23 00-0007 SF 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF.....	8.97	2.34
<i>For Up To 50, Add</i>	2.91	
<i>For >50 To 200, Add</i>	1.68	
<i>For >200 To 500, Add</i>	0.64	
<i>For >2,500, Deduct</i>	-0.45	

07 40 Roofing and Siding Panels (07)

07 41 Roof Panels (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

07 41 13 Metal Roof Panels (07 41)

07 41 13 00-0001 Exposed Fastener Metal Roofing (07 41 13)

Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing (07 41 13 00-0001)

07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels (07 41 13 00-0002)

07 41 13 00-0004 SF 18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.70	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0005 SF 20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.00	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0006 SF 22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.51	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0007 SF 24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.03	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0008 SF 26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.63	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0009 SF 29 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.29	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0010 SF 30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.14	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	

07 41 13 00-0011 Galvanized Exposed Fastener Metal Roof Accessories (07 41 13 00-0002)

See CSI section 07 41 13 00-0038 for accessories.

07 41 13 00-0012 LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....	25.15	3.07
<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.27	
07 41 13 00-0013 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Exposed Fastener Roofing.....	15.83	2.02
<i>For Steep Roof, Over 7 To 12, Add</i>	2.65	
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.75	
07 41 13 00-0014 LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	30.14	3.07
<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.77	
07 41 13 00-0015 LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....	25.60	3.07
<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	1.32	

07 41 13 00-0016 Aluminum Exposed Fastener Metal Roofing (07 41 13 00-0001)

07 41 13 00-0017 Aluminum Exposed Fastener Metal Roof Panels (07 41 13 00-0016)

07 41 13 00-0018 SF 0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	5.57	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	
07 41 13 00-0019 SF 0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	5.70	2.96
<i>For Fluoropolymer (Kynar®) Coating, Add</i>	0.98	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.52	

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0020	SF		0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels <i>For Fluoropolymer (Kynar®) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	6.02 0.98 1.52	2.96
07 41 13 00-0021	SF		0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels <i>For Fluoropolymer (Kynar®) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	6.45 0.98 1.52	2.96
07 41 13 00-0022	SF		0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels <i>For Fluoropolymer (Kynar®) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	6.88 0.98 1.52	2.96
07 41 13 00-0023	SF		0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels <i>For Fluoropolymer (Kynar®) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	7.42 0.98 1.52	2.96
07 41 13 00-0024			Aluminum Exposed Fastener Metal Roof Accessories <small>(07 41 13 00-0016)</small>		
07 41 13 00-0025	LF		Ridge Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar®) Coating, Add</i>	28.21 3.98 1.58	3.07
07 41 13 00-0026	LF		9" To 12" Girth, Eave Or Gable Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar®) Coating, Add</i>	17.60 2.65 0.93	2.13
07 41 13 00-0027	LF		Valley Flashing For Aluminum Exposed Fastener Metal Roofing <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar®) Coating, Add</i>	34.45 3.98 2.20	3.07
07 41 13 00-0028	LF		Hip Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar®) Coating, Add</i>	28.78 3.98 1.64	3.07
07 41 13 00-0029			Standing Seam Roofs <small>(07 41 13)</small> Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
07 41 13 00-0030			Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: All steel is galvanized G90 rated or galvalume®. Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0031			Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0032	SF		Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	12.07 1.88 1.76 0.74 3.02 1.81 0.30	3.14
07 41 13 00-0033	SF		Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	12.61 1.88 1.79 0.75 3.15 1.89 0.32	3.14
07 41 13 00-0034	SF		Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	11.58 1.88 1.74 0.73 2.90 1.74 0.29	3.14
07 41 13 00-0035	SF		Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	11.77 1.88 1.75 0.74 2.94 1.77 0.29	3.14
07 41 13 00-0036	SF		Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	11.99 1.88 1.76 0.74 3.00 1.80 0.30	3.14
07 41 13 00-0037	SF		Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	12.78 1.88 1.80 0.76 3.20 1.92 0.32	3.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0038 Accessories For Galvanized Steel Standing Seam Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0039 LF Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing.....	26.42	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.52	
07 41 13 00-0040 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing.....	16.58	2.13
For Steep Roof, Over 6 To 12, Add	2.49	
For 140 MPH Wind Load, Add	0.99	
07 41 13 00-0041 LF Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing	31.92	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.63	
07 41 13 00-0042 LF Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing.....	26.92	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.53	
07 41 13 00-0043 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small>		
Note: Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0044 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0043)</small>		
07 41 13 00-0045 SF Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing.....	12.45	3.14
For Steep Roof, Over 6 To 12, Add	1.88	
For Panels <16" Wide, Add	1.78	
For 140 MPH Wind Load, Add	0.75	
For Up To 1,500, Add	3.11	
For >1,500 To 5,000, Add	1.87	
For >5,000 To 10,000, Add	0.31	
07 41 13 00-0046 SF Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....	12.91	3.14
For Steep Roof, Over 6 To 12, Add	1.88	
For Panels <16" Wide, Add	1.81	
For 140 MPH Wind Load, Add	0.76	
For Up To 1,500, Add	3.23	
For >1,500 To 5,000, Add	1.94	
For >5,000 To 10,000, Add	0.32	
07 41 13 00-0047 SF Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing	12.18	3.14
For Steep Roof, Over 6 To 12, Add	1.88	
For Panels <16" Wide, Add	1.77	
For 140 MPH Wind Load, Add	0.75	
For Up To 1,500, Add	3.05	
For >1,500 To 5,000, Add	1.83	
For >5,000 To 10,000, Add	0.30	
07 41 13 00-0048 SF Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing	13.04	3.14
For Steep Roof, Over 6 To 12, Add	1.88	
For Panels <16" Wide, Add	1.81	
For 140 MPH Wind Load, Add	0.76	
For Up To 1,500, Add	3.26	
For >1,500 To 5,000, Add	1.96	
For >5,000 To 10,000, Add	0.33	
07 41 13 00-0049 Accessories For Aluminum Standing Seam Roofing <small>(07 41 13 00-0043)</small>		
07 41 13 00-0050 LF Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	29.79	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.59	
07 41 13 00-0051 LF 9" To 12" Girth, Eave Or Gable Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	18.53	2.13
For Steep Roof, Over 6 To 12, Add	2.49	
For 140 MPH Wind Load, Add	1.03	
07 41 13 00-0052 LF Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing	36.66	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.73	
07 41 13 00-0053 LF Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	30.42	3.07
For Steep Roof, Over 6 To 12, Add	3.73	
For 140 MPH Wind Load, Add	1.60	
07 41 13 00-0054 Stainless Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small>		
07 41 13 00-0055 Stainless Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0054)</small>		
07 41 13 00-0056 SF Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	22.75	3.76
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	2.88	
For 140 MPH Wind Load, Add	1.21	
For Up To 1,500, Add	5.69	
For >1,500 To 5,000, Add	3.41	
For >5,000 To 10,000, Add	0.57	
07 41 13 00-0057 SF Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	25.58	3.76
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	3.02	
For 140 MPH Wind Load, Add	1.26	
For Up To 1,500, Add	6.40	
For >1,500 To 5,000, Add	3.84	
For >5,000 To 10,000, Add	0.64	

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0058	SF		Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing.....	28.94	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	3.19	
			<i>For 140 MPH Wind Load, Add</i>	1.33	
			<i>For Up To 1,500, Add</i>	7.24	
			<i>For >1,500 To 5,000, Add</i>	4.34	
			<i>For >5,000 To 10,000, Add</i>	0.72	
07 41 13 00-0059	SF		Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing.....	33.26	3.76
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.82	
			<i>For Panels <16" Wide, Add</i>	3.40	
			<i>For 140 MPH Wind Load, Add</i>	1.42	
			<i>For Up To 1,500, Add</i>	8.32	
			<i>For >1,500 To 5,000, Add</i>	4.99	
			<i>For >5,000 To 10,000, Add</i>	0.83	
07 41 13 00-0060			Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0061	LF		Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	65.80	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.12	
			<i>For 140 MPH Wind Load, Add</i>	2.41	
07 41 13 00-0062	LF		9" To 12" Girth, Eave Or Gable Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	35.97	2.25
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.73	
			<i>For 140 MPH Wind Load, Add</i>	1.45	
07 41 13 00-0063	LF		Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	89.53	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.08	
			<i>For 140 MPH Wind Load, Add</i>	2.88	
07 41 13 00-0064	LF		Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	67.69	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.12	
			<i>For 140 MPH Wind Load, Add</i>	2.45	
07 41 13 00-0065			Metal Roof Surfacing (07 41 13)		
07 41 13 00-0066	SF		Acrylic, Metal Roof Primer, One Coat.....	0.42	
			<i>For Steep Roof, Over 7 To 12, Add</i>	0.06	
07 41 13 00-0067	SF		Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat.....	0.62	
			Note: 55% solids by volume.		
			<i>For Steep Roof, Over 7 To 12, Add</i>	0.06	
07 41 33			Plastic Roof Panels (07 41)		
07 41 33 00-0001			Polyvinyl Chloride (PVC) Roofing Panels (07 41 33)		
07 41 33 00-0002			Polyvinyl Chloride (PVC) Roofing Panels (07 41 33 00-0001)		
07 41 33 00-0003	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide.....	6.77	2.15
07 41 33 00-0004	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide.....	6.52	1.94
07 41 33 00-0005	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....	7.05	2.15
07 41 33 00-0006	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....	6.75	1.94
07 41 33 00-0007			Polyvinyl Chloride (PVC) Roofing Accessories (07 41 33 00-0001)		
07 41 33 00-0008	LF		1" "J" Channel, Starter Strip Trim.....	4.04	1.62
07 41 33 00-0009	LF		3-1/2" "J" Channel, Starter Strip Trim.....	6.13	1.62
07 41 33 00-0010	LF		Outside Corner Post, 7/8" Pocket.....	6.74	1.62
07 41 33 00-0011	LF		Inside Corner Post, 7/8" Pocket.....	5.11	1.62
07 41 33 00-0012			Fiberglass Roofing Panel (07 41 33)		
07 41 33 00-0013			Corrugated Panels (07 41 33 00-0012)		
07 41 33 00-0014	SF		8 Ounce Corrugated Fiberglass Panel.....	5.94	1.72
07 41 33 00-0015	SF		12 Ounce Corrugated Fiberglass Panel.....	6.74	1.72
07 42			Wall Panels (07 40)		
07 42 13			Metal Wall Panels (07 42)		
07 42 13 19			Insulated Metal Wall Panels (07 42 13)		
07 42 13 19-0001			Insulated Panels For Sash/Window Replacement (07 42 13 19)		
			Note: Porcelain or polymer finish on aluminum panel with polystyrene core.		
07 42 13 19-0002	SF		1" Insulated Panel For Sash Or Window Replacement.....	22.06	4.68
			<i>For Non-Insulated Panels, Deduct</i>	-3.16	
07 42 13 19-0003	SF		1-1/4" Insulated Panel For Sash Or Window Replacement.....	23.94	5.27
			<i>For Non-Insulated Panels, Deduct</i>	-3.37	
07 42 13 19-0004	SF		1-3/4" Insulated Panel For Sash Or Window Replacement.....	25.62	5.86
			<i>For Non-Insulated Panels, Deduct</i>	-3.59	
07 42 13 19-0005	SF		2-1/4" Insulated Panel For Sash Or Window Replacement.....	27.43	6.09
			<i>For Non-Insulated Panels, Deduct</i>	-3.81	
07 42 13 19-0006	SF		3-1/4" Insulated Panel For Sash Or Window Replacement.....	31.00	6.67
			<i>For Non-Insulated Panels, Deduct</i>	-4.43	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 42 13 19-0007	SF			4-1/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	35.87 -5.31	7.38
07 42 13 23 Metal Composite Material Wall Panels (07 42 13)						
07 42 13 23-0001				24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <small>(07 42 13 23)</small> Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume® AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.		
07 42 13 23-0002	SF			2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i> <i>For Premium Exterior Colors, Add</i>	20.57 0.24 0.12	2.72
07 42 13 23-0003	SF			2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i> <i>For Premium Exterior Colors, Add</i>	23.18 0.24 0.12	3.07
07 42 13 23-0004	SF			3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i> <i>For Premium Exterior Colors, Add</i>	25.39 0.24 0.12	3.49
07 42 13 23-0005	SF			4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i> <i>For Premium Exterior Colors, Add</i>	28.51 0.24 0.12	4.62
07 42 63 Fabricated Wall Panel Assemblies (07 42)						
07 42 63 00-0001				Insulated Freezer And Chiller Panels <small>(07 42 63)</small> Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002				Polyurethane Sandwich Panel <small>(07 42 63 00-0001)</small> Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF			2" 22 Gauge Freezer Panel Sheet Metal Both Faces	18.93	2.20
07 42 63 00-0004	SF			3" 22 Gauge Freezer Panel Sheet Metal Both Faces	19.97	2.20
07 42 63 00-0005	SF			4" 22 Gauge Freezer Panel Sheet Metal Both Faces	23.55	2.20
07 42 63 00-0006	SF			5" 22 Gauge Freezer Panel Sheet Metal Both Faces	25.42	2.34
07 42 63 00-0007	SF			6" 22 Gauge Freezer Panel Sheet Metal Both Faces	26.96	2.34
07 42 63 00-0008	SF			2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	16.91	1.81
07 42 63 00-0009	SF			3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	18.30	1.81
07 42 63 00-0010	SF			4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	21.85	1.94
07 42 63 00-0011	SF			5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	21.27	1.94
07 42 63 00-0012	SF			6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	24.85	1.94
07 42 63 00-0013				Polyurethane Sandwich Panel <small>(07 42 63 00-0001)</small> Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF			2" Freezer Panel 0.040" Aluminum Finish Both Faces	11.49	2.20
07 42 63 00-0015	SF			3" Freezer Panel 0.040" Aluminum Finish Both Faces	12.14	2.20
07 42 63 00-0016	SF			4" Freezer Panel 0.040" Aluminum Finish Both Faces	13.87	2.20
07 42 63 00-0017	SF			5" Freezer Panel 0.040" Aluminum Finish Both Faces	14.98	2.34
07 42 63 00-0018	SF			6" Freezer Panel 0.040" Aluminum Finish Both Faces	15.78	2.34
07 42 63 00-0019	SF			2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.21	1.81
07 42 63 00-0020	SF			3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.86	1.81
07 42 63 00-0021	SF			4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	11.59	1.94
07 42 63 00-0022	SF			5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	13.32	1.94
07 42 63 00-0023	SF			6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	14.41	1.94
07 42 93 Soffit Panels (07 42)						
07 42 93 00-0001				Aluminum Soffit And Fascia <small>(07 42 93)</small> Note: Excludes J-channel.		
07 42 93 00-0002	LF			6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	4.50 -0.07	1.63
07 42 93 00-0003	LF			10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	5.47 -0.13	1.73
07 42 93 00-0004	LF			1' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	5.95 -0.16	1.77
07 42 93 00-0005	LF			1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	7.35 -0.25	1.86
07 42 93 00-0006	LF			2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	8.93 -0.35	2.04
07 42 93 00-0007	LF			3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	11.76 -0.53	2.25
07 42 93 00-0008	LF			4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	14.63 -0.69	2.48
07 42 93 00-0009	LF			5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit <i>For 0.015" Thick, Deduct</i>	17.54 -0.88	2.72
07 42 93 00-0010	LF			4" Exposure, 0.024" Thick, Aluminum Fascia	5.19	1.60
07 42 93 00-0011	LF			6" Exposure, 0.024" Thick, Aluminum Fascia	5.64	1.63

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 42 Wall Panels**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 42 93 00-0012 LF 8" Exposure, 0.024" Thick, Aluminum Fascia	6.55	1.69
07 42 93 00-0013 LF 10" Exposure, 0.024" Thick, Aluminum Fascia	7.52	1.73
07 46 Siding (07 40)		
07 46 16 Aluminum Siding (07 46)		
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 16 00-0001 Aluminum Coil Stock Cladding (07 46 16)		
Note: Per SF of board, includes overlappage.		
07 46 16 00-0002 SF 0.016" Thick, Aluminum Clad Siding	11.83	4.34
07 46 16 00-0003 SF 0.019" Thick, Aluminum Clad Siding	11.93	4.34
07 46 16 00-0004 SF 0.024" Thick, Aluminum Clad Siding	12.10	4.34
07 46 16 00-0005 Aluminum Siding Panels (07 46 16)		
07 46 16 00-0006 Corrugated Aluminum Siding Panels (07 46 16 00-0005)		
Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0007 SF 0.019", Painted Finish, Corrugated Aluminum Siding Panel	7.48	2.37
07 46 16 00-0008 SF 0.021", Painted Finish, Corrugated Aluminum Siding Panel	7.72	2.37
07 46 16 00-0009 SF 0.024", Painted Finish, Corrugated Aluminum Siding Panel	8.47	2.37
07 46 16 00-0010 SF 0.032", Painted Finish, Corrugated Aluminum Siding Panel	9.94	2.37
07 46 16 00-0011 V- Beam Aluminum Siding Panels (07 46 16 00-0005)		
Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0012 SF 0.032", Painted Finish, V- Beam Aluminum Siding Panel	9.87	2.37
07 46 16 00-0013 SF 0.040", Painted Finish, V- Beam Aluminum Siding Panel	10.86	2.37
07 46 16 00-0014 SF 0.050", Painted Finish, V- Beam Aluminum Siding Panel	13.18	2.37
07 46 16 00-0015 Box Ribbed Aluminum Siding Panels (07 46 16 00-0005)		
Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 16 00-0016 SF 0.032", Painted Finish, Box Ribbed Aluminum Siding Panel	10.30	2.37
07 46 16 00-0017 SF 0.040", Painted Finish, Box Ribbed Aluminum Siding Panel	11.25	2.37
07 46 16 00-0018 SF 0.050", Painted Finish, Box Ribbed Aluminum Siding Panel	11.83	2.37
07 46 16 00-0019 Aluminum Siding Accessories (07 46 16)		
07 46 16 00-0020 LF 3/8" Pocket, Aluminum J-Channel	3.53	1.53
07 46 16 00-0021 LF 1/2" Pocket, Aluminum J-Channel	3.53	1.53
07 46 16 00-0022 LF 3/4" Pocket, Aluminum J-Channel	4.09	1.53
07 46 16 00-0023 LF 3/8" Pocket, Aluminum F-Channel	3.74	1.53
07 46 16 00-0024 LF 1/2" Pocket, Aluminum F-Channel	3.74	1.53
07 46 19 Steel Siding (07 46)		
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 19 00-0001 Steel Siding Panels (07 46 19)		
07 46 19 00-0002 Corrugated Steel Siding Panels (07 46 19 00-0001)		
Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0003 SF 20 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.92	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.30	
07 46 19 00-0004 SF 22 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.26	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.13	
07 46 19 00-0005 SF 24 Gauge, Painted Finish, Corrugated Steel Siding Panel	9.10	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.09	
07 46 19 00-0006 SF 26 Gauge, Painted Finish, Corrugated Steel Siding Panel	7.15	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	0.60	
07 46 19 00-0007 SF 28 Gauge, Painted Finish, Corrugated Steel Siding Panel	7.01	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	0.57	
07 46 19 00-0008 SF 30 Gauge, Painted Finish, Corrugated Steel Siding Panel	6.92	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	0.55	
07 46 19 00-0009 Box Ribbed Steel Siding Panels (07 46 19 00-0001)		
Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0010 SF 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	9.42	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.17	
07 46 19 00-0011 SF 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	9.12	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.10	
07 46 19 00-0012 SF 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	8.92	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	1.05	
07 46 19 00-0013 SF 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	8.59	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	0.97	
07 46 19 00-0014 SF 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel	7.88	2.37
<i>For Galvanized Instead Of Painted Steel, Add</i>		
	0.79	



Thermal And Moisture Protection		07
Roofing and Siding Panels		07 40
Siding		07 46

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 19 00-0015 Clapboard Steel Siding Panels <small>(07 46 19 00-0001)</small> Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.		
07 46 19 00-0016 SF 29 Gauge, Painted Finish, Clapboard Steel Siding Panel.....	8.13	1.18
07 46 23 Wood Siding <small>(07 46)</small> Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 23 00-0001 Wood Lap Siding <small>(07 46 23)</small>		
07 46 23 00-0002 LF 8" Wide Rough Sawn Cedar Lap Siding	3.91	1.58
07 46 23 00-0003 LF 10" Wide Rough Sawn Cedar Lap Siding	4.31	1.68
07 46 23 00-0004 LF 12" Wide Rough Sawn Cedar Lap Siding	4.75	1.79
07 46 23 00-0005 LF 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade	4.13	1.58
07 46 23 00-0006 LF 6" To 8" Wide Spruce Lap Siding, #2 Or Better	4.51	1.58
07 46 23 00-0007 LF 6" To 8" Wide Western Red Cedar, B Grade Lap Siding	5.35	1.58
07 46 23 00-0008 LF 6" To 8" Wide Western Red Cedar, A Grade Lap Siding	5.67	1.58
07 46 23 00-0009 LF 6" To 8" Wide Clear Heart Redwood Lap Siding	5.21	1.58
07 46 23 00-0010 LF 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin.....	4.24	1.68
07 46 23 00-0011 LF 1" x 8" Cedar Beveled Siding, Channel, Rustic.....	4.24	1.68
07 46 23 00-0012 Tongue And Groove Siding <small>(07 46 23)</small>		
07 46 23 00-0013 SF 1" x 6" Tongue And Groove Southern Yellow Pine Siding.....	3.89	1.58
07 46 23 00-0014 SF 1" x 8" Tongue And Groove Southern Yellow Pine Siding	4.23	1.58
07 46 23 00-0015 SF 1" x 6" 105 Southern Yellow Pine Siding	3.97	1.58
07 46 23 00-0016 SF 1" x 8" 105 Southern Yellow Pine Siding	4.44	1.58
07 46 29 Plywood Siding <small>(07 46)</small> Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 29 00-0001 T-111 Siding <small>(07 46 29)</small>		
07 46 29 00-0002 SF 5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud..... <i>For Pressure Treated, Add</i>	3.49 0.18	0.82
07 46 33 Plastic Siding <small>(07 46)</small> Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 33 00-0001 Vinyl Siding <small>(07 46 33)</small> Note: Includes standard manufacturer's colors.		
07 46 33 00-0002 Vinyl Siding Panels <small>(07 46 33 00-0001)</small> Note: Excludes J-channels, starter strips and trim.		
07 46 33 00-0003 Horizontal Vinyl Siding Panels <small>(07 46 33 00-0002)</small> Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		
07 46 33 00-0004 SF 7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	5.11 -0.16 0.24 0.65 0.06	2.00
07 46 33 00-0005 SF 8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.88 -0.16 0.24 0.65 0.06	1.89
07 46 33 00-0006 SF 9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.69 -0.16 0.24 0.65 0.06	1.80
07 46 33 00-0007 SF 10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.52 -0.16 0.24 0.65 0.06	1.71
07 46 33 00-0008 SF 12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.29 -0.16 0.24 0.65 0.06	1.59
07 46 33 00-0009 Vertical Vinyl Siding Panels <small>(07 46 33 00-0002)</small>		
07 46 33 00-0010 SF 7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel..... <i>For Manufacturer's Custom Colors, Add</i>	5.96 0.10	2.00
07 46 33 00-0011 Vinyl Siding Accessories <small>(07 46 33 00-0001)</small>		
07 46 33 00-0012 LF 3/4" Pocket, Outside Corner Post For Vinyl Siding	5.88	1.53
<i>For Manufacturer's Custom Colors, Add</i>	0.14	
07 46 33 00-0013 LF 1-1/8" Pocket, Outside Corner Post For Vinyl Siding	10.16	1.53
<i>For Manufacturer's Custom Colors, Add</i>	0.35	

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0014 LF 3/4" Pocket, Inside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.80 0.09	1.53
07 46 33 00-0015 LF 1-1/8" Pocket, Inside Corner Post For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.70 0.13	1.53
07 46 33 00-0016 LF 3/8" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.69 0.04	1.53
07 46 33 00-0017 LF 1/2" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.48 0.03	1.53
07 46 33 00-0018 LF 5/8" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.44 0.03	1.53
07 46 33 00-0019 LF 3/4" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	3.57 0.04	1.53
07 46 33 00-0020 LF 1" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	4.18 0.06	1.53
07 46 33 00-0021 LF 1-1/4" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	4.49 0.07	1.53
07 46 33 00-0022 LF 2-1/2" Pocket, J-Channel For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	5.10 0.07	1.53
07 46 33 00-0023 LF 1/2" Pocket, F-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	3.43 0.05	1.53
07 46 33 00-0024 LF 3/4" Pocket, 3-1/2" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	7.54 0.17	2.12
07 46 33 00-0025 LF 3/4" Pocket, 5" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	7.84 0.18	2.12
07 46 33 00-0026 LF 1-1/8" Pocket, 3-1/2" Lineal Trim For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	8.51 0.21	2.12
07 46 33 00-0027 LF 3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.63 0.08	1.53
07 46 33 00-0028 LF Vinyl Starter Strip For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.57 0.12	1.53
07 46 33 00-0029 LF Undersill Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.89 0.09	1.53
07 46 33 00-0030 Vinyl Soffit And Fascia (07 46 33 00-0001) Note: Excludes J-channel.		
07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	4.30 -0.46 -0.37 0.05	1.63
07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	5.13 -0.77 -0.63 0.08	1.73
07 46 33 00-0033 LF 1" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	5.55 -0.91 -0.76 0.10	1.77
07 46 33 00-0034 LF 1-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	6.75 -1.39 -1.15 0.15	1.86
07 46 33 00-0035 LF 2" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	8.13 -1.84 -1.54 0.20	2.04
07 46 33 00-0036 LF 3" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	10.55 -2.77 -2.32 0.30	2.25
07 46 33 00-0037 LF 4" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	13.02 -3.71 -3.11 0.40	2.48
07 46 33 00-0038 LF 5" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	15.53 -4.64 -3.89 0.51	2.72
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	4.43 0.06	1.60
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	4.86 0.08	1.63
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	4.83 0.07	1.69
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	5.43 0.10	1.73
07 46 33 00-0043 Fiberglass Siding (07 46 33)		
07 46 33 00-0044 Corrugated Panels (07 46 33 00-0043)		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....	6.39	2.36
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....	6.73	2.12
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....	7.34	2.12



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0048				Flat Panels <small>(07 46 33 00-0043)</small>		
	07 46 33 00-0049	SF		6 Ounce Flat Fiberglass Panels.....	6.17	2.12
	07 46 33 00-0050	SF		8 Ounce Flat Fiberglass Panels.....	6.73	2.12
07 46 46				Fiber-Cement Siding <small>(07 46)</small>		
				Note: Smooth or patterns. Includes sealer and primer.		
07 46 46 00-0001				5/16" Thick, Fiber Cement Lap Siding <small>(07 46 46)</small>		
	07 46 46 00-0002	SF		5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	7.14	2.48
	07 46 46 00-0003	SF		6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.79	2.36
	07 46 46 00-0004	SF		7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.64	2.29
	07 46 46 00-0005	SF		8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.48	2.24
	07 46 46 00-0006	SF		9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.20	2.12
	07 46 46 00-0007	SF		12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.91	2.00
	07 46 46 00-0008	LF		Starter Strip, Fiber Cement Lap Siding.....	1.57	0.59
07 46 46 00-0009				Fiber Cement Shingle Siding <small>(07 46 46)</small>		
	07 46 46 00-0010	SF		Fiber Cement Shingle Siding.....	11.02	2.18
07 46 46 00-0011				Fiber Cement Vertical Panel Siding <small>(07 46 46)</small>		
	07 46 46 00-0012	SF		Fiber Cement Vertical Panel Siding.....	5.24	1.77
07 46 46 00-0013				Fiber Cement Trim Boards <small>(07 46 46)</small>		
07 46 46 00-0014				7/16" Thick, Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
	07 46 46 00-0015	LF		4" Wide, 7/16" Thick, Fiber Cement Trim Board.....	3.42	1.18
	07 46 46 00-0016	LF		6" Wide, 7/16" Thick, Fiber Cement Trim Board.....	4.35	1.30
	07 46 46 00-0017	LF		8" Wide, 7/16" Thick, Fiber Cement Trim Board.....	5.25	1.41
	07 46 46 00-0018	LF		12" Wide, 7/16" Thick, Fiber Cement Trim Board.....	6.91	1.65
07 46 46 00-0019				3/4" Thick Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
	07 46 46 00-0020	LF		4" Wide, 3/4" Thick, Fiber Cement Trim Board.....	3.59	1.18
	07 46 46 00-0021	LF		6" Wide, 3/4" Thick, Fiber Cement Trim Board.....	4.62	1.30
	07 46 46 00-0022	LF		8" Wide, 3/4" Thick, Fiber Cement Trim Board.....	5.69	1.41
	07 46 46 00-0023	LF		12" Wide, 3/4" Thick, Fiber Cement Trim Board.....	5.94	1.65
07 46 46 00-0024				1" Thick Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
	07 46 46 00-0025	LF		4" Wide, 1" Thick, Fiber Cement Trim Board.....	3.81	1.18
	07 46 46 00-0026	LF		6" Wide, 1" Thick, Fiber Cement Trim Board.....	5.01	1.30
	07 46 46 00-0027	LF		8" Wide, 1" Thick, Fiber Cement Trim Board.....	6.27	1.41
	07 46 46 00-0028	LF		12" Wide, 1" Thick, Fiber Cement Trim Board.....	8.37	1.65
07 46 46 00-0029				Fiber Cement Fascia Board <small>(07 46 46)</small>		
	07 46 46 00-0030	LF		5/4" x 3-1/2" Fiber Cement Fascia Board.....	6.18	2.34
	07 46 46 00-0031	LF		5/4" x 5-1/2" Fiber Cement Fascia Board.....	7.59	2.60
	07 46 46 00-0032	LF		5/4" x 7-1/4" Fiber Cement Fascia Board.....	8.34	2.60
	07 46 46 00-0033	LF		5/4" x 11-1/4" Fiber Cement Fascia Board.....	10.89	3.06
07 46 46 00-0034				Fiber Cement Soffit Boards <small>(07 46 46)</small>		
	07 46 46 00-0035	SF		1/4" Thick, Non Vented Fiber Cement Soffit.....	6.60	1.69
	07 46 46 00-0036	SF		1/4" Thick, Vented Fiber Cement Soffit.....	7.01	1.69
07 46 63				Fabricated Panel Assemblies with Siding <small>(07 46)</small>		
07 46 63 00-0001				Metal Liner Panels <small>(07 46 63)</small>		
07 46 63 00-0002				Galvanized Metal Liner Panels <small>(07 46 63 00-0001)</small>		
	07 46 63 00-0003	SF		24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	9.94	2.10
	07 46 63 00-0004	SF		22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	10.84	2.10
	07 46 63 00-0005	SF		20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	12.43	2.10
	07 46 63 00-0006	SF		18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	12.59	2.10
07 50				Membrane Roofing <small>(07)</small>		
				See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.		
07 51				Built-Up Bituminous Roofing <small>(07 50)</small>		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 51 13 Built-Up Asphalt Roofing (07 51)**

07 51 13 00-0001	Built-Up Asphalt Roofing Components (07 51 13)	
07 51 13 00-0002	Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)	
	Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0067 for built-up roofing demolition.	
07 51 13 00-0003	Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)	
	Note: Includes applying cold adhesive and embedding the membrane.	
07 51 13 00-0004	Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)	
07 51 13 00-0005	SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied	103.88
	For Up To 10, Add	27.65
	For >10 To 20, Add	15.54
	For >20 To 40, Add	8.63
	For >75 To 100, Deduct	-4.31
	For >100 To 200, Deduct	-9.49
	For >200, Deduct	-13.80
07 51 13 00-0006	SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied	285.08
	For Up To 10, Add	63.89
	For >10 To 20, Add	33.66
	For >20 To 40, Add	17.69
	For >75 To 100, Deduct	-8.84
	For >100 To 200, Deduct	-18.55
	For >200, Deduct	-27.39
07 51 13 00-0007	Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)	
07 51 13 00-0008	SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied	6.86
07 51 13 00-0009	Hot-Mopped, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)	
	Note: Includes mopping hot asphalt and embedding the membrane.	
07 51 13 00-0010	Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0009)	
07 51 13 00-0011	SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	76.90
	For Up To 10, Add	22.37
	For >10 To 20, Add	12.94
	For >20 To 40, Add	7.34
	For >75 To 100, Deduct	-3.67
	For >100 To 200, Deduct	-8.22
	For >200, Deduct	-11.89
07 51 13 00-0012	SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	82.07
	For Up To 10, Add	23.41
	For >10 To 20, Add	13.45
	For >20 To 40, Add	7.60
	For >75 To 100, Deduct	-3.80
	For >100 To 200, Deduct	-8.47
	For >200, Deduct	-12.28
07 51 13 00-0013	SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped	87.94
	For Up To 10, Add	24.58
	For >10 To 20, Add	14.04
	For >20 To 40, Add	7.89
	For >75 To 100, Deduct	-3.95
	For >100 To 200, Deduct	-8.77
	For >200, Deduct	-12.72
07 51 13 00-0014	SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped	153.05
	For Up To 10, Add	37.60
	For >10 To 20, Add	20.55
	For >20 To 40, Add	11.15
	For >75 To 100, Deduct	-5.57
	For >100 To 200, Deduct	-12.02
	For >200, Deduct	-17.60
07 51 13 00-0015	SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped	258.11
	For Up To 10, Add	58.62
	For >10 To 20, Add	31.06
	For >20 To 40, Add	16.40
	For >75 To 100, Deduct	-8.20
	For >100 To 200, Deduct	-17.28
	For >200, Deduct	-25.48
07 51 13 00-0016	SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped	196.12
	For Up To 10, Add	46.89
	For >10 To 20, Add	25.36
	For >20 To 40, Add	13.64
	For >75 To 100, Deduct	-6.82
	For >100 To 200, Deduct	-14.59
	For >200, Deduct	-21.41
07 51 13 00-0017	Hot-Mopped, Built-Up Asphalt Roofing Flashing (07 51 13 00-0009)	
07 51 13 00-0018	SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped	4.40



Thermal And Moisture Protection		07
Membrane Roofing		07 50
Built-Up Bituminous Roofing		07 51

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002) Note: Includes fasteners.		
07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0019)		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	80.12	
For Up To 10, Add	19.46	
For >10 To 20, Add	10.59	
For >20 To 40, Add	5.72	
For >75 To 100, Deduct	-2.86	
For >100 To 200, Deduct	-6.15	
For >200, Deduct	-9.01	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	151.10	
For Up To 10, Add	33.65	
For >10 To 20, Add	17.68	
For >20 To 40, Add	9.27	
For >75 To 100, Deduct	-4.64	
For >100 To 200, Deduct	-9.70	
For >200, Deduct	-14.34	
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened	256.16	
For Up To 10, Add	54.66	
For >10 To 20, Add	28.19	
For >20 To 40, Add	14.52	
For >75 To 100, Deduct	-7.26	
For >100 To 200, Deduct	-14.95	
For >200, Deduct	-22.22	
07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing (07 51 13 00-0019)		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened	5.31	
07 51 13 00-0026 Asphalt Saturated Organic Felt (07 51 13 00-0001)		
07 51 13 00-0027 Cold Adhesive Applied, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	100.64	
For Up To 10, Add	27.00	
For >10 To 20, Add	15.22	
For >20 To 40, Add	8.47	
For >75 To 100, Deduct	-4.23	
For >100 To 200, Deduct	-9.33	
For >200, Deduct	-13.56	
07 51 13 00-0029 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	113.97	
For Up To 10, Add	29.66	
For >10 To 20, Add	16.55	
For >20 To 40, Add	9.13	
For >75 To 100, Deduct	-4.57	
For >100 To 200, Deduct	-9.99	
For >200, Deduct	-14.56	
07 51 13 00-0030 Hot-Mopped, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	73.67	
For Up To 10, Add	21.73	
For >10 To 20, Add	12.61	
For >20 To 40, Add	7.18	
For >75 To 100, Deduct	-3.59	
For >100 To 200, Deduct	-8.05	
For >200, Deduct	-11.65	
07 51 13 00-0032 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	86.99	
For Up To 10, Add	24.39	
For >10 To 20, Add	13.94	
For >20 To 40, Add	7.85	
For >75 To 100, Deduct	-3.92	
For >100 To 200, Deduct	-8.72	
For >200, Deduct	-12.64	
07 51 13 00-0033 Mechanically Fastened, Asphalt Saturated Organic Felt (07 51 13 00-0026) Note: Includes fasteners.		
07 51 13 00-0034 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened	36.99	
For Up To 10, Add	10.83	
For >10 To 20, Add	6.27	
For >20 To 40, Add	3.57	
For >75 To 100, Deduct	-1.78	
For >100 To 200, Deduct	-3.99	
For >200, Deduct	-5.78	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0035	SQ		30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	50.32	
			<i>For Up To 10, Add</i>	13.50	
			<i>For >10 To 20, Add</i>	7.61	
			<i>For >20 To 40, Add</i>	4.23	
			<i>For >75 To 100, Deduct</i>	-2.12	
			<i>For >100 To 200, Deduct</i>	-4.66	
			<i>For >200, Deduct</i>	-6.78	
07 51 13 00-0036			Surfacing <small>(07 51 13 00-0001)</small>		
07 51 13 00-0037	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat.....	162.45	
			<i>For Up To 10, Add</i>	49.67	
			<i>For >10 To 20, Add</i>	29.13	
			<i>For >20 To 40, Add</i>	16.71	
			<i>For >75 To 100, Deduct</i>	-8.36	
			<i>For >100 To 200, Deduct</i>	-18.86	
			<i>For >200, Deduct</i>	-27.22	
07 51 13 00-0038	SQ		400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....	240.86	
			<i>For Up To 10, Add</i>	65.35	
			<i>For >10 To 20, Add</i>	36.97	
			<i>For >20 To 40, Add</i>	20.63	
			<i>For >75 To 100, Deduct</i>	-10.32	
			<i>For >100 To 200, Deduct</i>	-22.78	
			<i>For >200, Deduct</i>	-33.10	
07 51 13 00-0039	CY		Gravel Roofing Ballast, Spread To Desired Thickness	164.17	
			Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040	SQ		Protective Polypropylene Fabric Mat, Loose Laid.....	43.86	
			Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
			<i>For Up To 10, Add</i>	11.04	
			<i>For >10 To 20, Add</i>	6.09	
			<i>For >20 To 40, Add</i>	3.33	
			<i>For >75 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-3.61	
			<i>For >200, Deduct</i>	-5.27	
07 51 13 00-0041	SQ		Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat	117.03	
			Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.		
			<i>For Up To 10, Add</i>	27.53	
			<i>For >10 To 20, Add</i>	14.80	
			<i>For >20 To 40, Add</i>	7.91	
			<i>For >75 To 100, Deduct</i>	-3.96	
			<i>For >100 To 200, Deduct</i>	-8.43	
			<i>For >200, Deduct</i>	-12.39	
07 51 13 00-0042	SQ		Fibred Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat.....	104.60	
			Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.		
			<i>For Up To 10, Add</i>	24.94	
			<i>For >10 To 20, Add</i>	13.50	
			<i>For >20 To 40, Add</i>	7.27	
			<i>For >75 To 100, Deduct</i>	-3.63	
			<i>For >100 To 200, Deduct</i>	-7.78	
			<i>For >200, Deduct</i>	-11.41	
07 51 13 00-0043	SQ		Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat	139.44	
			Note: Reflective coating for use over smooth-surfaced built-up roofs.		
			<i>For Up To 10, Add</i>	32.01	
			<i>For >10 To 20, Add</i>	17.04	
			<i>For >20 To 40, Add</i>	9.03	
			<i>For >75 To 100, Deduct</i>	-4.52	
			<i>For >100 To 200, Deduct</i>	-9.55	
			<i>For >200, Deduct</i>	-14.07	
07 51 13 00-0044	SQ		100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat.....	140.60	
			Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
			<i>For Up To 10, Add</i>	32.24	
			<i>For >10 To 20, Add</i>	17.15	
			<i>For >20 To 40, Add</i>	9.09	
			<i>For >75 To 100, Deduct</i>	-4.55	
			<i>For >100 To 200, Deduct</i>	-9.61	
			<i>For >200, Deduct</i>	-14.15	
			<i>For Installation Over Granule Surfaced Asphalt Roof Systems, Add</i>	41.66	
07 51 13 00-0045	SQ		100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat.....	145.37	
			Note: Bleed blocking coating for use over built-up, Styrene-Butadiene-Styrene (SBS) and Atactic-Polypropylene (APP) modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
			<i>For Up To 10, Add</i>	33.20	
			<i>For >10 To 20, Add</i>	17.63	
			<i>For >20 To 40, Add</i>	9.33	
			<i>For >75 To 100, Deduct</i>	-4.67	
			<i>For >100 To 200, Deduct</i>	-9.85	
			<i>For >200, Deduct</i>	-14.51	
			<i>For Installation Over Granule Surfaced Asphalt Roof Systems, Add</i>	43.23	
07 51 13 00-0046	SF		Ceramic Coated Roofing Granules, Hand Broadcast.....	2.33	
			Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047	SF		Energy Star, Ceramic Coated UltraWhite Roofing Granules, Hand Broadcast.....	3.79	
			Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0048 SQ Vapor Permeable Synthetic Underlayment (GAF Deck-Armor™).....	35.44	
07 51 13 00-0049 Walkway Pads (07 51 13 00-0001) Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0050 LF 5/16" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	29.25	
07 51 13 00-0051 LF 1/2" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	34.83	
07 51 13 00-0052 Cant And Tapered Edge Strips (07 51 13 00-0001)		
07 51 13 00-0053 LF 2" x 2" Perlite Cant Strip	4.08	
07 51 13 00-0054 LF 3" x 3" Perlite Cant Strip	4.21	
07 51 13 00-0055 LF 4" x 4" Perlite Cant Strip	4.82	
07 51 13 00-0056 LF 3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally	3.99	
07 51 13 00-0057 LF 4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally	4.12	
07 51 13 00-0058 LF 1/2" x 6" Perlite Tapered Edge Strip	4.57	
07 51 13 00-0059 LF 1/2" x 12" Perlite Tapered Edge Strip	5.27	
07 51 13 00-0060 LF 1" x 12" Perlite Tapered Edge Strip	5.45	
07 51 13 00-0061 LF 1" x 24" Perlite Tapered Edge Strip	6.18	
07 51 13 00-0062 LF 1-1/2" x 12" Perlite Tapered Edge Strip.....	6.11	
07 51 13 00-0063 LF 1-1/2" x 18" Perlite Tapered Edge Strip	7.43	
07 51 13 00-0064 LF 1-1/2" x 24" Perlite Tapered Edge Strip	8.39	
07 51 13 00-0065 Asphalt Primer (07 51 13 00-0001)		
07 51 13 00-0066 SQ Asphalt Primer For Roofing Systems	33.07	
Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.		
07 51 13 00-0067 Demolish Built-Up Roofing (07 51 13 00-0001)		
Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling.		
07 51 13 00-0068 SQ Demolish Gravel/Slag Surfaced, Built Up Roofing System.....	360.80	
For Up To 10, Add		89.46
For >10 To 25, Add		53.67
07 51 13 00-0069 SQ Demolish Cap Sheet Surfaced, Built Up Roofing System.....	278.33	
Note: Includes protective surfacing.		
For Up To 10, Add		69.01
For >10 To 25, Add		41.40
07 51 13 00-0070 Roofing System Warranty (07 51 13 00-0001)		
Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.		
07 51 13 00-0071 EA Up To 50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	509.32	
07 51 13 00-0072 SQ >50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty.....	7.28	
07 51 13 00-0073 EA Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	582.08	
07 51 13 00-0074 SQ >50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty.....	11.64	
07 51 13 00-0075 EA Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty	800.36	
07 51 13 00-0076 SQ >50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty.....	16.01	
07 51 13 00-0077 Built-Up Roofing Components (Tremco) (07 51 13)		
Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0078 Cold Applied BUR Base Plies And Ply Sheets (07 51 13 00-0077)		
07 51 13 00-0079 SQ BURmastic Composite Ply, Cold Applied BUR Component.....	114.91	
Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.		
07 51 13 00-0080 SQ BURmastic Premium Composite Ply, Cold Applied BUR Component	139.05	
Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0081 SQ BURmastic Supreme Composite Ply, Cold Applied BUR Component.....	164.33	
Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0082 SQ 28 LB BURmastic Glass Ply, Cold Applied BUR Component	37.60	
Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0083 SQ 33 LB BURmastic Glass Ply, Cold Applied BUR Component	54.28	
Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0084 SQ POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component.....	223.72	
Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.		
07 51 13 00-0085 SQ POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component.....	206.99	
Note: A smooth surfaced, non woven fiberglass/scrium fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.		
07 51 13 00-0086 Hot Or Cold Applied Modified Bitumen Cap Membrane (07 51 13 00-0077)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0087 SQ POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component.....	127.58	
Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0088 SQ POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component.....	335.75	
Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0089 SQ POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component.....	554.51	
Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0090 SQ POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component.....	149.34	
Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.		
07 51 13 00-0091 SQ POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component	228.18	
Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.		
07 51 13 00-0092 SQ POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component	550.70	
Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.		
07 51 13 00-0093 SQ POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component.....	401.49	
Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.		
07 51 13 00-0094 SQ POWERply HE FR Cap Sheet, Hot Applied BUR Component.....	396.63	
Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.		
07 51 13 00-0095 Self Adhesive Base Plies And Ply Sheets (07 51 13 00-0077)		
07 51 13 00-0096 SQ POWERply SA Base Sheet, Self Adhesive Roofing	230.52	
Note: A self adhesive, fiberglass reinforced Styrene-Butadiene-Styrene (SBS) modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.		
07 51 13 00-0097 SQ POWERply SA FR Membrane, Self Adhesive Roofing.....	457.89	
Note: A fire rated, granule surfaced, polyester reinforced, self adhesive Styrene-Butadiene-Styrene (SBS) modified bitumen membrane. Type I, Grade G. 130 mils.		
07 51 13 00-0098 Flashings (07 51 13 00-0077)		
07 51 13 00-0099 LF 11-1/2" Hypalon Elastomeric Flashing	14.70	
Note: 45 mils.		
07 51 13 00-0100 LF 19" Hypalon Elastomeric Flashing	23.92	
Note: 45 mils.		
07 51 13 00-0101 LF 25" Hypalon Elastomeric Flashing	31.78	
Note: 45 mils.		
07 51 13 00-0102 LF 38" Hypalon Elastomeric Flashing	46.57	
Note: 45 mils.		
07 51 13 00-0103 LF 60-1/2" Hypalon Elastomeric Flashing	76.76	
Note: 45 mils.		
07 51 13 00-0104 LF 12" TRA Elastomeric Flashing Membrane	11.74	
Note: Polyester reinforced flashing membrane. 45 mils.		
07 51 13 00-0105 LF 18" TRA Elastomeric Flashing Membrane	19.18	
Note: Polyester reinforced flashing membrane. 45 mils.		
07 51 13 00-0106 LF 24" TRA Elastomeric Flashing Membrane	25.57	
Note: Polyester reinforced flashing membrane. 45 mils.		
07 51 13 00-0107 LF 36" TRA Elastomeric Flashing Membrane	37.32	
Note: Polyester reinforced flashing membrane. 45 mils.		
07 51 13 00-0108 LF 60" TRA Elastomeric Flashing Membrane	62.85	
Note: Polyester reinforced flashing membrane. 45 mils.		
07 51 13 00-0109 LF 4" BURmesh Fabric	3.45	
Note: Glass membrane for reinforcement or repair of roof membranes and flashings.		
07 51 13 00-0110 LF 6" BURmesh Fabric	3.59	
Note: Glass membrane for reinforcement or repair of roof membranes and flashings.		
07 51 13 00-0111 LF 12" BURmesh Fabric	5.04	
Note: Glass membrane for reinforcement or repair of roof membranes and flashings.		
07 51 13 00-0112 LF 36" BURmesh Fabric	13.01	
Note: Glass membrane for reinforcement or repair of roof membranes and flashings.		
07 51 13 00-0113 Cold Applied Adhesives (07 51 13 00-0077)		
07 51 13 00-0114 SQ BURmastic Inter-Ply Cold Applied Adhesive.....	145.05	
07 51 13 00-0115 SQ BURmastic Flood Coat Cold Applied Adhesive	238.93	
07 51 13 00-0116 SQ BURmastic SF Inter-Ply Cold Applied Adhesive	184.14	
07 51 13 00-0117 SQ BURmastic LV Inter-Ply Cold Applied Adhesive	145.05	
07 51 13 00-0118 SQ POWERply Standard Inter-Ply Cold Applied Adhesive.....	74.61	
07 51 13 00-0119 SQ POWERply Standard Flood Coat Cold Applied Adhesive.....	164.37	
07 51 13 00-0120 SQ POWERply White On White Cold Applied Adhesive.....	162.24	
07 51 13 00-0121 SQ Rock-It Cold Applied Adhesive For Gravel Applications	446.72	
07 51 13 00-0122 SQ FAS-n-FREE Cold Applied Adhesive (Beads 12" OC).....	246.62	
Note: For insulation only.		
07 51 13 00-0123 SQ ECOlastic Cold Applied Adhesive.....	278.59	
07 51 13 00-0124 Hot Applied Adhesives (07 51 13 00-0077)		
07 51 13 00-0125 SQ Premium III Asphalt Inter-Ply Hot Applied Adhesive	53.86	
07 51 13 00-0126 SQ Premium III Asphalt Flood Coat Hot Applied Adhesive.....	98.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0127 Flashings Adhesives <small>(07 51 13 00-0077)</small>		
07 51 13 00-0128 LF Sheeting Bond Flashing Adhesive.....	18.53	
Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.		
07 51 13 00-0129 LF Polyroof SF Flashing Mastic.....	24.12	
Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.		
07 51 13 00-0130 LF ELS Flashing Mastic.....	15.17	
Note: Used for repairing flashings and asphalt built-up roof defects.		
07 51 13 00-0131 LF TremSEAL D General Purpose Sealant.....	5.82	
07 51 13 00-0132 LF TremSEAL HP High Performance Sealant.....	5.96	
07 51 13 00-0133 LF TremSEAL S Silicone Sealant.....	5.84	
07 51 13 00-0134 Surfacing <small>(07 51 13 00-0077)</small>		
07 51 13 00-0135 SQ TremLastic SP Non Fibered Elastomeric Emulsion Cold Applied Coating.....	215.12	
07 51 13 00-0136 SQ ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating.....	482.15	
07 51 13 00-0137 SQ Polar Coat.....	125.58	
07 51 13 00-0138 SQ Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating.....	153.20	
07 51 13 00-0139 SQ Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls.....	440.73	
07 51 13 00-0140 SQ Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls.....	202.47	
07 51 13 00-0141 SQ 100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB).....	56.67	
07 51 13 00-0142 Walkway Protection Pads <small>(07 51 13 00-0077)</small>		
07 51 13 00-0143 LF 36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®).....	28.76	
07 51 13 00-0144 Primer <small>(07 51 13 00-0077)</small>		
07 51 13 00-0145 SQ TREMprime WB Primer.....	33.25	
Note: Water based polymer modified asphalt primer.		
07 51 13 00-0146 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating.....	71.74	
07 51 13 00-0147 Liquid Applied Roofing <small>(07 51 13 00-0077)</small>		
07 51 13 00-0148 SQ Trem-LAR LRM H Waterproofing (Horizontal).....	366.93	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0149 SQ Trem-LAR LRM V Waterproofing (Vertical).....	374.30	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces.....	465.87	
Note: Two part liquid applied polyurethane roof coating. 48 mils.		
07 51 13 00-0151 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces.....	604.30	
Note: Two part liquid applied polyurethane roof coating. 64 mils.		
07 51 13 00-0152 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating.....	354.89	
Note: Two part liquid applied polyurethane roof coating. 32 mils.		
07 51 13 00-0153 SQ AlphaGuard Glass Mat.....	68.28	
Note: Reinforcement mat for AlphaGuard systems.		
07 51 13 00-0154 SQ AlphaGuard C-Prime Primer.....	70.77	
Note: 100% solids epoxy primer for concrete surfaces.		
07 51 13 00-0155 SQ AlphaGuard M-Prime Primer.....	75.84	
Note: Water based primer for metal and plastic surfaces.		
07 51 13 00-0156 SQ Geogard Primer.....	56.66	
Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.		
07 51 13 00-0157 SQ AlphaGuard Primer WB.....	51.25	
Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.		
07 51 13 00-0158 Atactic-Polypropylene (APP) Products <small>(07 51 13 00-0077)</small>		
07 51 13 00-0159 SQ POWERply Atactic-Polypropylene (APP) Base Sheet.....	189.53	
07 51 13 00-0160 SQ POWERply Atactic-Polypropylene (APP) FR.....	357.72	
07 51 13 00-0161 SQ POWERply Atactic-Polypropylene (APP) Smooth.....	286.71	
07 51 13 00-0162 Tri-Polymer Alloy (TPA) White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0163 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane.....	504.82	
07 51 13 00-0164 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane.....	688.45	
07 51 13 00-0165 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane.....	780.44	
07 51 13 00-0166 Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0167 SQ 45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	578.37	
07 51 13 00-0168 SQ 60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	707.05	
07 51 13 00-0169 SQ 80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane.....	862.76	
07 51 13 00-0170 Tri-Polymer Alloy (TPA) Membrane Accessories <small>(07 51 13 00-0077)</small>		
07 51 13 00-0171 EA >1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	103.82	
07 51 13 00-0172 EA >4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco).....	117.87	
07 51 13 00-0173 LF 36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco).....	17.74	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0174	SQ		Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco).....	61.70	
07 51 13 00-0175			Thermoplastic Polyolefin (TPO) Polyester White Membrane (07 51 13 00-0077)		
07 51 13 00-0176	SQ		45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	275.01	
07 51 13 00-0177	SQ		60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	277.57	
07 51 13 00-0178	SQ		80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane.....	489.91	
07 51 13 00-0179			Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane (07 51 13 00-0077)		
07 51 13 00-0180	SQ		45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	317.45	
07 51 13 00-0181	SQ		60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	356.00	
07 51 13 00-0182	SQ		80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane.....	514.20	
07 51 13 00-0183			Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510) (07 51 13 00-0077)		
07 51 13 00-0184	SQ		45 Mil Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510).....	838.10	
07 51 13 00-0185			Single Ply Adhesives (07 51 13 00-0077)		
07 51 13 00-0186	SQ		Low VOC, TPA Bonding Adhesive (Tremco).....	138.36	
07 51 13 00-0187	SQ		Water Based, TPA Bonding Adhesive (Tremco).....	155.82	
07 51 13 00-0188	SQ		Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco).....	135.82	
07 51 13 00-0189	SQ		Low VOC, TPO Bonding Adhesive (Tremco).....	91.78	
07 51 13 00-0190			Warranty (Tremco) (07 51 13 00-0077)		
07 51 13 00-0191	EA		Up To 10,000 SF 15 Year Roofing System Warranty.....	1,500.00	
07 51 13 00-0192	SF		>10,000 SF 15 Year Roofing System Warranty.....	0.15	
07 51 13 00-0193	EA		Up To 10,000 SF 20 Year Roofing System Warranty.....	2,000.00	
07 51 13 00-0194	SF		>10,000 SF 20 Year Roofing System Warranty.....	0.20	
07 51 13 00-0195			Built-Up Roofing Components (Garland) (07 51 13)		
			Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0196			Modified Cap Membranes (07 51 13 00-0195)		
07 51 13 00-0197			Modified Cap Membranes, Hot/Cold Applied (07 51 13 00-0196)		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0198	SQ		Stressply® FR Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane, Minimum 145 Mil.....	584.03	
07 51 13 00-0199	SQ		Stressply® Plus Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane With Recycled Rubber, 105 Mil.....	418.28	
07 51 13 00-0200	SQ		Stressply® Plus FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil.....	517.49	
07 51 13 00-0201	SQ		Stressply® E Eco-Responsible, Smooth Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials.....	537.69	
07 51 13 00-0202	SQ		Stressply® E FR Mineral Eco-Responsible, Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil.....	748.00	
07 51 13 00-0203	SQ		Stressply® EUV Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Modified Membrane With Recycled Rubber, 160 Mil.....	840.67	
07 51 13 00-0204	SQ		Versiply® III 80 Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 80 Mil.....	353.14	
			Note: Low strength cap sheet for hot or cold modified systems used with gravel.		
07 51 13 00-0205	SQ		Versiply® III Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Minimum 145 Mil.....	446.20	
07 51 13 00-0206	SQ		BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 140 Mil.....	273.49	
07 51 13 00-0207			Modified Cap Membranes, Self-Adhering (07 51 13 00-0196)		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.		
07 51 13 00-0208	SQ		Stressply® SA FR Mineral Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil.....	528.78	
			Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.		
07 51 13 00-0209			Modified Cap Membranes, Torch-Applied (07 51 13 00-0196)		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0210	SQ		Stressply® IV Dual Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil.....	650.58	
			Note: Smooth surfaced Styrene-Butadiene-Styrene (SBS) torch modified top ply of torch system with gravel.		
07 51 13 00-0211	SQ		Stressply® IV Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Minimum 195 Mil.....	707.61	
07 51 13 00-0212	SQ		Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil.....	745.62	
07 51 13 00-0213			Modified Cap Membranes, Coal Tar Pitch Systems (07 51 13 00-0196)		
			Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 51	13 00-0214	SQ	Millennium® Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 120 Mil	598.44	
	07 51	13 00-0215	SQ	Millennium® FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil.....	947.61	
	07 51	13 00-0216	SQ	Millennium® Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 160 Mil	771.77	
07 51 13 00-0217				Base Ply (07 51 13 00-0195) Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems.		
	07 51	13 00-0218	SQ	Flexbase® E120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil.....	534.12	
	07 51	13 00-0219	SQ	Flexbase® 80 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil	336.29	
	07 51	13 00-0220	SQ	HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil	77.49	
	07 51	13 00-0221	SQ	HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil	51.59	
	07 51	13 00-0222	SQ	HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil.....	62.63	
	07 51	13 00-0223	SQ	HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil.....	67.98	
	07 51	13 00-0224	SQ	HPR® Tribase Premium Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet, 60 Mil.....	104.75	
	07 51	13 00-0225	SQ	Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil.....	339.42	
	07 51	13 00-0226	SQ	HPR® SA FR Base Sheet Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil	294.12	
	07 51	13 00-0227	SQ	StressBase® 120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil.....	297.89	
	07 51	13 00-0228	SQ	StressBase® 80 Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil.....	247.40	
	07 51	13 00-0229	LF	Garmesh® 6" Styrene-Butadiene-Styrene (SBS) Coated Woven Fiberglass Reinforcing Fabric	4.91	
	07 51	13 00-0230	LF	Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems.....	13.10	
	07 51	13 00-0231	SQ	Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	59.96	
	07 51	13 00-0232	LF	Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	6.37	
	07 51	13 00-0233	LF	Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	4.67	
	07 51	13 00-0234	LF	Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	5.37	
	07 51	13 00-0235	SQ	HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications.....	130.01	
07 51 13 00-0236				Coatings And Mastics For Roof Installation, Restoration And Repairs (07 51 13 00-0195)		
	07 51	13 00-0237	SQ	Water Based Roof Primer, GarlaPrime VOC Primer.....	38.98	
	07 51	13 00-0238	SQ	Black-Knight® Primer	36.19	
	07 51	13 00-0239	SQ	Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply	143.84	
	07 51	13 00-0240	SQ	Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ).....	153.34	
	07 51	13 00-0241	SQ	Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ)	244.07	
	07 51	13 00-0242	SQ	Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply.....	388.72	
	07 51	13 00-0243	SQ	Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat.....	401.37	
	07 51	13 00-0244	SQ	Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	188.34	
	07 51	13 00-0245	SQ	Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration	311.09	
	07 51	13 00-0246	SQ	Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	476.27	
	07 51	13 00-0247	SQ	Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration.....	791.11	
	07 51	13 00-0248	SQ	Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproof, Interply	332.23	
	07 51	13 00-0249	SQ	Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproof, Flood Coat	344.88	
	07 51	13 00-0250	SQ	Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only	725.52	
	07 51	13 00-0251	SQ	Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only	315.61	
	07 51	13 00-0252	SQ	HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply	155.63	
	07 51	13 00-0253	SQ	HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat.....	168.28	
	07 51	13 00-0254	SQ	Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel	146.73	
	07 51	13 00-0255	SQ	Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers	137.29	
	07 51	13 00-0256	SQ	Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products	18.43	
	07 51	13 00-0257	SQ	Pyramic® Plus LO White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required.....	162.99	
	07 51	13 00-0258	SQ	Pyramic® Plus LO Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System	158.05	
	07 51	13 00-0259	LF	Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh.....	21.16	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51	13 00-0260	SQ	Solex® White, Kynar® Acrylic Topcoat Roof Coating Used With Pyramic Base Coat.....	210.54	
07 51	13 00-0261	SQ	Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric.....	1,222.13	
07 51	13 00-0262	SQ	Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ).....	270.61	
07 51	13 00-0263	SQ	Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel.....	329.31	
07 51	13 00-0264	SQ	Weatherking® Cold Applied Rubber Modified Asphalt Interplay Adhesive For Slopes Up To 3:12, Interply.....	123.72	
07 51	13 00-0265	SQ	Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System.....	424.69	
07 51	13 00-0266	SQ	Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply.....	122.81	
			Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.		

07 52 Modified Bituminous Membrane Roofing (07 50)**07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing (07 52)**

Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.

07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)**07 52 13 11-0001 Cold Adhesive Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 11)**

Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.

07 52 13 11-0002 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)

07 52 13 11-0003	SQ	80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied.....	190.74
		For Up To 10, Add	45.02
		For >10 To 20, Add	24.23
		For >20 To 40, Add	12.97
		For >75 To 100, Deduct	-6.49
		For >100 To 200, Deduct	-13.83
		For >200, Deduct	-20.32
07 52 13 11-0004	SQ	90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	232.11
		For Up To 10, Add	53.29
		For >10 To 20, Add	28.36
		For >20 To 40, Add	15.04
		For >75 To 100, Deduct	-7.52
		For >100 To 200, Deduct	-15.90
		For >200, Deduct	-23.42
07 52 13 11-0005	SQ	160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	364.22
		For Up To 10, Add	79.71
		For >10 To 20, Add	41.57
		For >20 To 40, Add	21.65
		For >75 To 100, Deduct	-10.82
		For >100 To 200, Deduct	-22.50
		For >200, Deduct	-33.33
07 52 13 11-0006	SQ	160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	367.50
		For Up To 10, Add	81.03
		For >10 To 20, Add	42.39
		For >20 To 40, Add	22.14
		For >75 To 100, Deduct	-11.07
		For >100 To 200, Deduct	-23.08
		For >200, Deduct	-34.15
07 52 13 11-0007	SQ	160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	263.16
		For Up To 10, Add	60.16
		For >10 To 20, Add	31.96
		For >20 To 40, Add	16.92
		For >75 To 100, Deduct	-8.46
		For >100 To 200, Deduct	-17.86
		For >200, Deduct	-26.32
		For Factory Applied White Reflective Surfacing, Add	84.29
07 52 13 11-0008	SQ	160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	305.00
		For Up To 10, Add	68.53
		For >10 To 20, Add	36.14
		For >20 To 40, Add	19.01
		For >75 To 100, Deduct	-9.51
		For >100 To 200, Deduct	-19.95
		For >200, Deduct	-29.46
		For Factory Applied White Reflective Surfacing, Add	84.29
07 52 13 11-0009	SQ	180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	419.03
		For Up To 10, Add	91.33
		For >10 To 20, Add	47.55
		For >20 To 40, Add	24.71
		For >75 To 100, Deduct	-12.36
		For >100 To 200, Deduct	-25.66
		For >200, Deduct	-38.01
		For Factory Applied White Reflective Surfacing, Add	84.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 11-0010 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 11-0001)</small>		
07 52 13 11-0011 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	7.65	
07 52 13 11-0012 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	8.17	
<i>For Factory Applied White Reflective Surfacing, Add</i>	<i>0.84</i>	
 07 52 13 13 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 13-0001 Torch-Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 13)</small>		
<small>Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.</small>		
07 52 13 13-0002 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 13 13-0001)</small>		
07 52 13 13-0003 SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Torch-Applied.....	137.73	
<i>For Up To 10, Add</i>	<i>34.41</i>	
<i>For >10 To 20, Add</i>	<i>18.92</i>	
<i>For >20 To 40, Add</i>	<i>10.32</i>	
<i>For >75 To 100, Deduct</i>	<i>-5.16</i>	
<i>For >100 To 200, Deduct</i>	<i>-11.18</i>	
<i>For >200, Deduct</i>	<i>-16.34</i>	
07 52 13 13-0004 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	179.11	
<i>For Up To 10, Add</i>	<i>42.69</i>	
<i>For >10 To 20, Add</i>	<i>23.06</i>	
<i>For >20 To 40, Add</i>	<i>12.39</i>	
<i>For >75 To 100, Deduct</i>	<i>-6.19</i>	
<i>For >100 To 200, Deduct</i>	<i>-13.25</i>	
<i>For >200, Deduct</i>	<i>-19.44</i>	
07 52 13 13-0005 SQ 150 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied	215.76	
<i>For Up To 10, Add</i>	<i>53.46</i>	
<i>For >10 To 20, Add</i>	<i>29.31</i>	
<i>For >20 To 40, Add</i>	<i>15.94</i>	
<i>For >75 To 100, Deduct</i>	<i>-7.97</i>	
<i>For >100 To 200, Deduct</i>	<i>-17.23</i>	
<i>For >200, Deduct</i>	<i>-25.20</i>	
07 52 13 13-0006 SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied	226.36	
<i>For Up To 10, Add</i>	<i>55.58</i>	
<i>For >10 To 20, Add</i>	<i>30.37</i>	
<i>For >20 To 40, Add</i>	<i>16.47</i>	
<i>For >75 To 100, Deduct</i>	<i>-8.24</i>	
<i>For >100 To 200, Deduct</i>	<i>-17.76</i>	
<i>For >200, Deduct</i>	<i>-26.00</i>	
07 52 13 13-0007 SQ 180 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied	312.30	
<i>For Up To 10, Add</i>	<i>72.77</i>	
<i>For >10 To 20, Add</i>	<i>38.96</i>	
<i>For >20 To 40, Add</i>	<i>20.77</i>	
<i>For >75 To 100, Deduct</i>	<i>-10.39</i>	
<i>For >100 To 200, Deduct</i>	<i>-22.06</i>	
<i>For >200, Deduct</i>	<i>-32.44</i>	
07 52 13 13-0008 SQ 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	215.76	
<i>For Up To 10, Add</i>	<i>53.46</i>	
<i>For >10 To 20, Add</i>	<i>29.31</i>	
<i>For >20 To 40, Add</i>	<i>15.94</i>	
<i>For >75 To 100, Deduct</i>	<i>-7.97</i>	
<i>For >100 To 200, Deduct</i>	<i>-17.23</i>	
<i>For >200, Deduct</i>	<i>-25.20</i>	
07 52 13 13-0009 SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	229.00	
<i>For Up To 10, Add</i>	<i>56.11</i>	
<i>For >10 To 20, Add</i>	<i>30.63</i>	
<i>For >20 To 40, Add</i>	<i>16.61</i>	
<i>For >75 To 100, Deduct</i>	<i>-8.30</i>	
<i>For >100 To 200, Deduct</i>	<i>-17.89</i>	
<i>For >200, Deduct</i>	<i>-26.20</i>	
07 52 13 13-0010 SQ 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	312.30	
<i>For Up To 10, Add</i>	<i>72.77</i>	
<i>For >10 To 20, Add</i>	<i>38.96</i>	
<i>For >20 To 40, Add</i>	<i>20.77</i>	
<i>For >75 To 100, Deduct</i>	<i>-10.39</i>	
<i>For >100 To 200, Deduct</i>	<i>-22.06</i>	
<i>For >200, Deduct</i>	<i>-32.44</i>	
07 52 13 13-0011 SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied	224.11	
<i>For Up To 10, Add</i>	<i>55.13</i>	
<i>For >10 To 20, Add</i>	<i>30.14</i>	
<i>For >20 To 40, Add</i>	<i>16.36</i>	
<i>For >75 To 100, Deduct</i>	<i>-8.18</i>	
<i>For >100 To 200, Deduct</i>	<i>-17.65</i>	
<i>For >200, Deduct</i>	<i>-25.83</i>	
<i>For Factory Applied White Reflective Surfacing, Add</i>	<i>84.29</i>	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0012 SQ 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	236.95	
For Up To 10, Add	57.70	
For >10 To 20, Add	31.43	
For >20 To 40, Add	17.00	
For >75 To 100, Deduct	-8.50	
For >100 To 200, Deduct	-18.29	
For >200, Deduct	-26.79	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0013 SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	268.47	
For Up To 10, Add	64.00	
For >10 To 20, Add	34.58	
For >20 To 40, Add	18.58	
For >75 To 100, Deduct	-9.29	
For >100 To 200, Deduct	-19.87	
For >200, Deduct	-29.16	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0014 SQ 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	272.31	
For Up To 10, Add	64.77	
For >10 To 20, Add	34.96	
For >20 To 40, Add	18.77	
For >75 To 100, Deduct	-9.39	
For >100 To 200, Deduct	-20.06	
For >200, Deduct	-29.44	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0015 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	379.97	
For Up To 10, Add	86.30	
For >10 To 20, Add	45.73	
For >20 To 40, Add	24.15	
For >75 To 100, Deduct	-12.08	
For >100 To 200, Deduct	-25.44	
For >200, Deduct	-37.52	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 13 13-0016 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing (07 52 13 13-0001)		
07 52 13 13-0017 SF 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.18	
07 52 13 13-0018 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.31	
07 52 13 13-0019 SF 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.15	
07 52 13 13-0020 SF 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied.....	3.39	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 13 13-0021 SF 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.75	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 13 13-0022 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.82	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 13 14 Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)		
07 52 13 14-0001 Mechanically Fastened Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing (07 52 13 14)		
Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002 Mechanically Fastened, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base And Ply Sheets (07 52 13 14-0001)		
07 52 13 14-0003 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	203.19	
For Up To 10, Add	44.07	
For >10 To 20, Add	22.89	
For >20 To 40, Add	11.88	
For >75 To 100, Deduct	-5.94	
For >100 To 200, Deduct	-12.30	
For >200, Deduct	-18.24	
07 52 16 Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52)		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11 Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 11-0001 Cold Adhesive Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 11)		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 11-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	150.23	
For Up To 10, Add	36.92	
For >10 To 20, Add	20.18	
For >20 To 40, Add	10.95	
For >75 To 100, Deduct	-5.47	
For >100 To 200, Deduct	-11.81	
For >200, Deduct	-17.28	
07 52 16 11-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	196.17	
For Up To 10, Add	46.10	
For >10 To 20, Add	24.77	
For >20 To 40, Add	13.24	
For >75 To 100, Deduct	-6.62	
For >100 To 200, Deduct	-14.10	
For >200, Deduct	-20.72	
07 52 16 11-0005 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	202.09	
For Up To 10, Add	47.29	
For >10 To 20, Add	25.36	
For >20 To 40, Add	13.54	
For >75 To 100, Deduct	-6.77	
For >100 To 200, Deduct	-14.40	
For >200, Deduct	-21.17	
07 52 16 11-0006 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	275.37	
For Up To 10, Add	61.94	
For >10 To 20, Add	32.69	
For >20 To 40, Add	17.20	
For >75 To 100, Deduct	-8.60	
For >100 To 200, Deduct	-18.06	
For >200, Deduct	-26.66	
07 52 16 11-0007 SQ 125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	349.53	
For Up To 10, Add	76.78	
For >10 To 20, Add	40.11	
For >20 To 40, Add	20.91	
For >75 To 100, Deduct	-10.46	
For >100 To 200, Deduct	-21.77	
For >200, Deduct	-32.23	
07 52 16 11-0008 SQ 140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	291.34	
For Up To 10, Add	65.79	
For >10 To 20, Add	34.78	
For >20 To 40, Add	18.33	
For >75 To 100, Deduct	-9.17	
For >100 To 200, Deduct	-19.27	
For >200, Deduct	-28.44	
07 52 16 11-0009 SQ 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	299.31	
For Up To 10, Add	67.39	
For >10 To 20, Add	35.58	
For >20 To 40, Add	18.73	
For >75 To 100, Deduct	-9.36	
For >100 To 200, Deduct	-19.67	
For >200, Deduct	-29.03	
07 52 16 11-0010 SQ 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	261.96	
For Up To 10, Add	59.92	
For >10 To 20, Add	31.84	
For >20 To 40, Add	16.86	
For >75 To 100, Deduct	-8.43	
For >100 To 200, Deduct	-17.80	
For >200, Deduct	-26.23	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0011 SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	265.41	
For Up To 10, Add	60.61	
For >10 To 20, Add	32.19	
For >20 To 40, Add	17.03	
For >75 To 100, Deduct	-8.52	
For >100 To 200, Deduct	-17.97	
For >200, Deduct	-26.49	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0012 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	297.19	
For Up To 10, Add	66.96	
For >10 To 20, Add	35.36	
For >20 To 40, Add	18.62	
For >75 To 100, Deduct	-9.31	
For >100 To 200, Deduct	-19.56	
For >200, Deduct	-28.87	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 11-0013 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	302.49	
For Up To 10, Add	68.02	
For >10 To 20, Add	35.89	
For >20 To 40, Add	18.89	
For >75 To 100, Deduct	-9.44	
For >100 To 200, Deduct	-19.83	
For >200, Deduct	-29.27	
For Factory Applied White Reflective Surfacing, Add	84.29	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0014	SQ		170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	348.84	
			<i>For Up To 10, Add</i>	77.29	
			<i>For >10 To 20, Add</i>	40.53	
			<i>For >20 To 40, Add</i>	21.21	
			<i>For >75 To 100, Deduct</i>	-10.60	
			<i>For >100 To 200, Deduct</i>	-22.15	
			<i>For >200, Deduct</i>	-32.75	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0015	SQ		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	433.27	
			<i>For Up To 10, Add</i>	94.18	
			<i>For >10 To 20, Add</i>	48.97	
			<i>For >20 To 40, Add</i>	25.43	
			<i>For >75 To 100, Deduct</i>	-12.71	
			<i>For >100 To 200, Deduct</i>	-26.37	
			<i>For >200, Deduct</i>	-39.08	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0016	SQ		125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	267.71	
			<i>For Up To 10, Add</i>	61.07	
			<i>For >10 To 20, Add</i>	32.42	
			<i>For >20 To 40, Add</i>	17.15	
			<i>For >75 To 100, Deduct</i>	-8.57	
			<i>For >100 To 200, Deduct</i>	-18.09	
			<i>For >200, Deduct</i>	-26.66	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0017	SQ		140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	276.00	
			<i>For Up To 10, Add</i>	62.73	
			<i>For >10 To 20, Add</i>	33.24	
			<i>For >20 To 40, Add</i>	17.56	
			<i>For >75 To 100, Deduct</i>	-8.78	
			<i>For >100 To 200, Deduct</i>	-18.50	
			<i>For >200, Deduct</i>	-27.29	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0018	SQ		150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	321.03	
			<i>For Up To 10, Add</i>	71.73	
			<i>For >10 To 20, Add</i>	37.75	
			<i>For >20 To 40, Add</i>	19.81	
			<i>For >75 To 100, Deduct</i>	-9.91	
			<i>For >100 To 200, Deduct</i>	-20.76	
			<i>For >200, Deduct</i>	-30.66	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0019	SQ		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	322.09	
			<i>For Up To 10, Add</i>	71.94	
			<i>For >10 To 20, Add</i>	37.85	
			<i>For >20 To 40, Add</i>	19.87	
			<i>For >75 To 100, Deduct</i>	-9.93	
			<i>For >100 To 200, Deduct</i>	-20.81	
			<i>For >200, Deduct</i>	-30.74	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	
07 52 16 11-0020	SQ		170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	342.22	
			<i>For Up To 10, Add</i>	75.97	
			<i>For >10 To 20, Add</i>	39.87	
			<i>For >20 To 40, Add</i>	20.87	
			<i>For >75 To 100, Deduct</i>	-10.44	
			<i>For >100 To 200, Deduct</i>	-21.81	
			<i>For >200, Deduct</i>	-32.25	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	

07 52 16 11-0021 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 11-0001)

07 52 16 11-0022	SF		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.97	
07 52 16 11-0023	SF		125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.60	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0024	SF		140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.63	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0025	SF		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.00	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0026	SF		170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.47	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0027	SF		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	8.31	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0028	SF		125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.65	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0029	SF		140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.74	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	



Thermal And Moisture Protection		07
Membrane Roofing		07 50
Modified Bituminous Membrane Roofing		07 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0030	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.20	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0031	SF		170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	7.40	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.84	
07 52 16 11-0032	SF		145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied	9.05	
07 52 16 11-0033	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied	15.00	

07 52 16 12 Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
(07 52 16)

07 52 16 12-0001			Hot-Mopped Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 12)</small> Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.		
07 52 16 12-0002			Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 12-0001)</small>		
07 52 16 12-0003	SQ		50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	123.25	
			<i>For Up To 10, Add</i>	31.64	
			<i>For >10 To 20, Add</i>	17.57	
			<i>For >20 To 40, Add</i>	9.66	
			<i>For >75 To 100, Deduct</i>	-4.83	
			<i>For >100 To 200, Deduct</i>	-10.53	
			<i>For >200, Deduct</i>	-15.36	
07 52 16 12-0004	SQ		80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	169.19	
			<i>For Up To 10, Add</i>	40.83	
			<i>For >10 To 20, Add</i>	22.16	
			<i>For >20 To 40, Add</i>	11.96	
			<i>For >75 To 100, Deduct</i>	-5.98	
			<i>For >100 To 200, Deduct</i>	-12.83	
			<i>For >200, Deduct</i>	-18.81	
07 52 16 12-0005	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	175.12	
			<i>For Up To 10, Add</i>	42.02	
			<i>For >10 To 20, Add</i>	22.76	
			<i>For >20 To 40, Add</i>	12.25	
			<i>For >75 To 100, Deduct</i>	-6.13	
			<i>For >100 To 200, Deduct</i>	-13.13	
			<i>For >200, Deduct</i>	-19.25	
07 52 16 12-0006	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Hot-Mopped.....	248.40	
			<i>For Up To 10, Add</i>	56.67	
			<i>For >10 To 20, Add</i>	30.09	
			<i>For >20 To 40, Add</i>	15.92	
			<i>For >75 To 100, Deduct</i>	-7.96	
			<i>For >100 To 200, Deduct</i>	-16.79	
			<i>For >200, Deduct</i>	-24.75	
07 52 16 12-0007	SQ		125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Hot-Mopped.....	322.56	
			<i>For Up To 10, Add</i>	71.51	
			<i>For >10 To 20, Add</i>	37.50	
			<i>For >20 To 40, Add</i>	19.63	
			<i>For >75 To 100, Deduct</i>	-9.81	
			<i>For >100 To 200, Deduct</i>	-20.50	
			<i>For >200, Deduct</i>	-30.31	
07 52 16 12-0008	SQ		140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	264.42	
			<i>For Up To 10, Add</i>	60.55	
			<i>For >10 To 20, Add</i>	32.19	
			<i>For >20 To 40, Add</i>	17.05	
			<i>For >75 To 100, Deduct</i>	-8.53	
			<i>For >100 To 200, Deduct</i>	-18.01	
			<i>For >200, Deduct</i>	-26.54	
07 52 16 12-0009	SQ		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	272.40	
			<i>For Up To 10, Add</i>	62.14	
			<i>For >10 To 20, Add</i>	32.99	
			<i>For >20 To 40, Add</i>	17.45	
			<i>For >75 To 100, Deduct</i>	-8.73	
			<i>For >100 To 200, Deduct</i>	-18.41	
			<i>For >200, Deduct</i>	-27.13	
07 52 16 12-0010	SQ		125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	235.05	
			<i>For Up To 10, Add</i>	54.67	
			<i>For >10 To 20, Add</i>	29.25	
			<i>For >20 To 40, Add</i>	15.58	
			<i>For >75 To 100, Deduct</i>	-7.79	
			<i>For >100 To 200, Deduct</i>	-16.54	
			<i>For >200, Deduct</i>	-24.33	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	84.29	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0011 SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	238.49	
For Up To 10, Add	55.36	
For >10 To 20, Add	29.60	
For >20 To 40, Add	15.76	
For >75 To 100, Deduct	-7.88	
For >100 To 200, Deduct	-16.71	
For >200, Deduct	-24.59	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0012 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	270.28	
For Up To 10, Add	61.72	
For >10 To 20, Add	32.77	
For >20 To 40, Add	17.35	
For >75 To 100, Deduct	-8.67	
For >100 To 200, Deduct	-18.30	
For >200, Deduct	-26.98	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0013 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	275.57	
For Up To 10, Add	62.78	
For >10 To 20, Add	33.30	
For >20 To 40, Add	17.61	
For >75 To 100, Deduct	-8.80	
For >100 To 200, Deduct	-18.57	
For >200, Deduct	-27.37	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	321.92	
For Up To 10, Add	72.05	
For >10 To 20, Add	37.94	
For >20 To 40, Add	19.93	
For >75 To 100, Deduct	-9.96	
For >100 To 200, Deduct	-20.88	
For >200, Deduct	-30.85	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	406.36	
For Up To 10, Add	88.93	
For >10 To 20, Add	46.38	
For >20 To 40, Add	24.15	
For >75 To 100, Deduct	-12.07	
For >100 To 200, Deduct	-25.11	
For >200, Deduct	-37.18	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	240.80	
For Up To 10, Add	55.82	
For >10 To 20, Add	29.83	
For >20 To 40, Add	15.87	
For >75 To 100, Deduct	-7.94	
For >100 To 200, Deduct	-16.83	
For >200, Deduct	-24.76	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	249.09	
For Up To 10, Add	57.48	
For >10 To 20, Add	30.66	
For >20 To 40, Add	16.29	
For >75 To 100, Deduct	-8.14	
For >100 To 200, Deduct	-17.24	
For >200, Deduct	-25.39	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	294.11	
For Up To 10, Add	66.48	
For >10 To 20, Add	35.16	
For >20 To 40, Add	18.54	
For >75 To 100, Deduct	-9.27	
For >100 To 200, Deduct	-19.49	
For >200, Deduct	-28.76	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	295.17	
For Up To 10, Add	66.70	
For >10 To 20, Add	35.26	
For >20 To 40, Add	18.59	
For >75 To 100, Deduct	-9.29	
For >100 To 200, Deduct	-19.55	
For >200, Deduct	-28.84	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 12-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	315.30	
For Up To 10, Add	70.72	
For >10 To 20, Add	37.28	
For >20 To 40, Add	19.60	
For >75 To 100, Deduct	-9.80	
For >100 To 200, Deduct	-20.55	
For >200, Deduct	-30.35	
For Factory Applied White Reflective Surfacing, Add	84.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 52 16 12-0021 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing
(07 52 16 12-0001)

07 52 16 12-0022	SF	150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.51	
07 52 16 12-0023	SF	125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.13	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0024	SF	140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.17	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0025	SF	150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.49	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0026	SF	160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.54	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0027	SF	170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		5.00	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0028	SF	180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		5.85	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0029	SF	125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.19	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0030	SF	140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.27	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0031	SF	160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.65	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0032	SF	170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		4.94	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		0.84	
07 52 16 12-0033	SF	145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		6.59	
07 52 16 12-0034	SF	160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped		12.54	

07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing
(07 52 16)

07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing
(07 52 16 13)

Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.

07 52 16 13-0002 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets
(07 52 16 13-0001)

07 52 16 13-0003	SQ	120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Torch-Applied		252.84	
		<i>For Up To 10, Add</i>		60.88	
		<i>For >10 To 20, Add</i>		33.02	
		<i>For >20 To 40, Add</i>		17.80	
		<i>For >75 To 100, Deduct</i>		-8.90	
		<i>For >100 To 200, Deduct</i>		-19.09	
		<i>For >200, Deduct</i>		-27.98	
07 52 16 13-0004	SQ	150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied		227.15	
		<i>For Up To 10, Add</i>		55.74	
		<i>For >10 To 20, Add</i>		30.45	
		<i>For >20 To 40, Add</i>		16.51	
		<i>For >75 To 100, Deduct</i>		-8.26	
		<i>For >100 To 200, Deduct</i>		-17.80	
		<i>For >200, Deduct</i>		-26.06	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		84.29	
07 52 16 13-0005	SQ	160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied		257.34	
		<i>For Up To 10, Add</i>		61.78	
		<i>For >10 To 20, Add</i>		33.47	
		<i>For >20 To 40, Add</i>		18.02	
		<i>For >75 To 100, Deduct</i>		-9.01	
		<i>For >100 To 200, Deduct</i>		-19.31	
		<i>For >200, Deduct</i>		-28.32	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		84.29	
07 52 16 13-0006	SQ	180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied		394.22	
		<i>For Up To 10, Add</i>		89.15	
		<i>For >10 To 20, Add</i>		47.15	
		<i>For >20 To 40, Add</i>		24.87	
		<i>For >75 To 100, Deduct</i>		-12.43	
		<i>For >100 To 200, Deduct</i>		-26.15	
		<i>For >200, Deduct</i>		-38.59	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		84.29	
07 52 16 13-0007	SQ	150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied		235.79	
		<i>For Up To 10, Add</i>		57.47	
		<i>For >10 To 20, Add</i>		31.31	
		<i>For >20 To 40, Add</i>		16.94	
		<i>For >75 To 100, Deduct</i>		-8.47	
		<i>For >100 To 200, Deduct</i>		-18.23	
		<i>For >200, Deduct</i>		-26.71	
		<i>For Factory Applied White Reflective Surfacing, Add</i>		84.29	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 13-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	271.38	
For Up To 10, Add	64.59	
For >10 To 20, Add	34.87	
For >20 To 40, Add	18.72	
For >75 To 100, Deduct	-9.36	
For >100 To 200, Deduct	-20.01	
For >200, Deduct	-29.37	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 13-0009 SQ 165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	282.90	
For Up To 10, Add	67.07	
For >10 To 20, Add	36.16	
For >20 To 40, Add	19.39	
For >75 To 100, Deduct	-9.70	
For >100 To 200, Deduct	-20.70	
For >200, Deduct	-30.40	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 13-0010 SQ 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	365.98	
For Up To 10, Add	83.69	
For >10 To 20, Add	44.47	
For >20 To 40, Add	23.55	
For >75 To 100, Deduct	-11.77	
For >100 To 200, Deduct	-24.86	
For >200, Deduct	-36.63	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 13-0011 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 13-0001)</small>		
07 52 16 13-0012 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.63	
07 52 16 13-0013 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.61	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 13-0014 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	4.97	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 13-0015 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.77	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 13-0016 SF 165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	3.84	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 13-0017 SF 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	4.68	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 13-0018 SF 150 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	4.86	
07 52 16 13-0019 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied.....	11.66	
07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52 16)</small>		
07 52 16 14-0001 Mechanically Fastened Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 14)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 16 14-0002 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 16 14-0001)</small>		
07 52 16 14-0003 SQ 35 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Mechanically Fastened.....	157.54	
For Up To 10, Add	34.94	
For >10 To 20, Add	18.33	
For >20 To 40, Add	9.59	
For >75 To 100, Deduct	-4.80	
For >100 To 200, Deduct	-10.02	
For >200, Deduct	-14.82	
07 52 16 14-0004 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	121.30	
For Up To 10, Add	27.69	
For >10 To 20, Add	14.70	
For >20 To 40, Add	7.78	
For >75 To 100, Deduct	-3.89	
For >100 To 200, Deduct	-8.21	
For >200, Deduct	-12.10	
07 52 16 14-0005 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	156.98	
For Up To 10, Add	34.83	
For >10 To 20, Add	18.27	
For >20 To 40, Add	9.57	
For >75 To 100, Deduct	-4.78	
For >100 To 200, Deduct	-9.99	
For >200, Deduct	-14.78	



Thermal And Moisture Protection		07
Membrane Roofing		07 50
Modified Bituminous Membrane Roofing		07 52

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 14-0006 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened.....	196.39	
For Up To 10, Add	42.71	
For >10 To 20, Add	22.21	
For >20 To 40, Add	11.54	
For >75 To 100, Deduct	-5.77	
For >100 To 200, Deduct	-11.96	
For >200, Deduct	-17.73	
07 52 16 14-0007 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	246.45	
For Up To 10, Add	52.72	
For >10 To 20, Add	27.22	
For >20 To 40, Add	14.04	
For >75 To 100, Deduct	-7.02	
For >100 To 200, Deduct	-14.47	
For >200, Deduct	-21.49	
07 52 16 14-0008 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 14-0001)		
07 52 16 14-0009 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....	3.12	
07 52 16 14-0010 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened.....	3.19	
07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 15-0001 Self-Adhering Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 15)		
Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.		
07 52 16 15-0002 Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 15-0001)		
07 52 16 15-0003 SQ 60 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	126.47	
For Up To 10, Add	29.42	
For >10 To 20, Add	15.74	
For >20 To 40, Add	8.39	
For >75 To 100, Deduct	-4.19	
For >100 To 200, Deduct	-8.90	
For >200, Deduct	-13.09	
07 52 16 15-0004 SQ 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	133.98	
For Up To 10, Add	30.92	
For >10 To 20, Add	16.49	
For >20 To 40, Add	8.76	
For >75 To 100, Deduct	-4.38	
For >100 To 200, Deduct	-9.28	
For >200, Deduct	-13.66	
07 52 16 15-0005 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	225.78	
For Up To 10, Add	49.59	
For >10 To 20, Add	25.90	
For >20 To 40, Add	13.51	
For >75 To 100, Deduct	-6.75	
For >100 To 200, Deduct	-14.06	
For >200, Deduct	-20.81	
07 52 16 15-0006 SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering	269.80	
For Up To 10, Add	58.39	
For >10 To 20, Add	30.30	
For >20 To 40, Add	15.71	
For >75 To 100, Deduct	-7.85	
For >100 To 200, Deduct	-16.26	
For >200, Deduct	-24.11	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 15-0007 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering	399.58	
For Up To 10, Add	84.35	
For >10 To 20, Add	43.28	
For >20 To 40, Add	22.20	
For >75 To 100, Deduct	-11.10	
For >100 To 200, Deduct	-22.75	
For >200, Deduct	-33.85	
For Factory Applied White Reflective Surfacing, Add	84.29	
07 52 16 15-0008 Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 15-0001)		
07 52 16 15-0009 SF 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	3.59	
07 52 16 15-0010 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	4.02	
For Factory Applied White Reflective Surfacing, Add	0.84	
07 52 16 15-0011 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	5.31	
For Factory Applied White Reflective Surfacing, Add	0.84	

07 53 Elastomeric Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices.

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

See CSI section 07 26 13 00-0000 for wood deck building paper.

07 53 16 Chlorosulfonate-Polyethylene Roofing (07 53)**07 53 16 00-0001 Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes** (07 53 16)

Note: Includes hot air welding or adhesive bonding of seams.

07 53 16 00-0002	SQ	45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered	514.28	82.47
		Note: Includes adhesive.		
		<i>For Up To 10, Add</i>	135.84	
		<i>For >10 To 20, Add</i>	76.17	
		<i>For >20 To 40, Add</i>	42.21	
		<i>For >75 To 100, Deduct</i>	-21.10	
		<i>For >100 To 200, Deduct</i>	-46.33	
		<i>For >200, Deduct</i>	-67.43	
		<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0003	SQ	45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted	390.88	41.23
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	94.67	
		<i>For >10 To 20, Add</i>	51.46	
		<i>For >20 To 40, Add</i>	27.79	
		<i>For >75 To 100, Deduct</i>	-13.90	
		<i>For >100 To 200, Deduct</i>	-29.85	
		<i>For >200, Deduct</i>	-43.75	
		<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0004	SQ	45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened.....	419.46	61.85
		Note: Includes fasteners.		
		<i>For Up To 10, Add</i>	108.63	
		<i>For >10 To 20, Add</i>	60.50	
		<i>For >20 To 40, Add</i>	33.34	
		<i>For >75 To 100, Deduct</i>	-16.67	
		<i>For >100 To 200, Deduct</i>	-36.44	
		<i>For >200, Deduct</i>	-53.11	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For Mechanically Fastened To Concrete Decks, Add</i>	30.93	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	31.96	

07 53 23 Ethylene-Propylene-Diene-Monomer Roofing (07 53)**07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes** (07 53 23)

Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM).

07 53 23 00-0002	SQ	45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	212.46	41.23
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	58.99	
		<i>For >10 To 20, Add</i>	33.62	
		<i>For >20 To 40, Add</i>	18.87	
		<i>For >75 To 100, Deduct</i>	-9.44	
		<i>For >100 To 200, Deduct</i>	-20.93	
		<i>For >200, Deduct</i>	-30.37	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For Low Slope Fire Rated, Add</i>	6.77	
		<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
07 53 23 00-0003	SQ	60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	237.59	43.81
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	65.04	
		<i>For >10 To 20, Add</i>	36.90	
		<i>For >20 To 40, Add</i>	20.64	
		<i>For >75 To 100, Deduct</i>	-10.32	
		<i>For >100 To 200, Deduct</i>	-22.83	
		<i>For >200, Deduct</i>	-33.15	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	7.00	
		<i>For 25 Year Warranty, Add</i>	9.00	
		<i>For Low Slope Fire Rated, Add</i>	6.77	
		<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
07 53 23 00-0004	SQ	90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	346.57	46.39
		Note: Includes ballast.		
		<i>For Up To 10, Add</i>	87.87	
		<i>For >10 To 20, Add</i>	48.57	
		<i>For >20 To 40, Add</i>	26.61	
		<i>For >75 To 100, Deduct</i>	-13.30	
		<i>For >100 To 200, Deduct</i>	-28.93	
		<i>For >200, Deduct</i>	-42.23	
		<i>For 15 Year Warranty, Add</i>	3.00	
		<i>For 20 Year Warranty, Add</i>	7.00	
		<i>For 25 Year Warranty, Add</i>	9.00	
		<i>For Low Slope Fire Rated, Add</i>	6.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0005 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	254.80	61.85
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	75.70	
<i>For >10 To 20, Add</i>	44.04	
<i>For >20 To 40, Add</i>	25.11	
<i>For >75 To 100, Deduct</i>	-12.56	
<i>For >100 To 200, Deduct</i>	-28.20	
<i>For >200, Deduct</i>	-40.76	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Low VOC Adhesive, Add</i>	32.47	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	95.86	
07 53 23 00-0006 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	279.93	64.43
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	81.76	
<i>For >10 To 20, Add</i>	47.32	
<i>For >20 To 40, Add</i>	26.88	
<i>For >75 To 100, Deduct</i>	-13.44	
<i>For >100 To 200, Deduct</i>	-30.10	
<i>For >200, Deduct</i>	-43.54	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Low VOC Adhesive, Add</i>	32.47	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	105.79	
07 53 23 00-0007 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	388.91	67.00
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	104.58	
<i>For >10 To 20, Add</i>	58.99	
<i>For >20 To 40, Add</i>	32.85	
<i>For >75 To 100, Deduct</i>	-16.42	
<i>For >100 To 200, Deduct</i>	-36.20	
<i>For >200, Deduct</i>	-52.62	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Low VOC Adhesive, Add</i>	32.47	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	116.63	
07 53 23 00-0008 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	336.51	82.47
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	100.29	
<i>For >10 To 20, Add</i>	58.39	
<i>For >20 To 40, Add</i>	33.32	
<i>For >75 To 100, Deduct</i>	-16.66	
<i>For >100 To 200, Deduct</i>	-37.44	
<i>For >200, Deduct</i>	-54.10	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For Low VOC Adhesive, Add</i>	81.17	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	95.86	
07 53 23 00-0009 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	361.65	85.04
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	106.35	
<i>For >10 To 20, Add</i>	61.68	
<i>For >20 To 40, Add</i>	35.09	
<i>For >75 To 100, Deduct</i>	-17.55	
<i>For >100 To 200, Deduct</i>	-39.34	
<i>For >200, Deduct</i>	-56.89	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low Slope Fire Rated, Add</i>	6.77	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	16.90	
<i>For Low VOC Adhesive, Add</i>	81.17	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	64.62	
<i>For Integral Polyester Fleece-Backing, Add</i>	105.79	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	470.64	87.62
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	129.18	
			For >10 To 20, Add	73.35	
			For >20 To 40, Add	41.06	
			For >75 To 100, Deduct	-20.53	
			For >100 To 200, Deduct	-45.44	
			For >200, Deduct	-65.97	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For Low VOC Adhesive, Add	81.17	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Integral Polyester Fleece-Backing, Add	116.63	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	240.84	61.85
			Note: Includes fasteners.		
			For Up To 10, Add	72.91	
			For >10 To 20, Add	42.64	
			For >20 To 40, Add	24.41	
			For >75 To 100, Deduct	-12.21	
			For >100 To 200, Deduct	-27.50	
			For >200, Deduct	-39.71	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	6.77	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Mechanically Fastened To Concrete Decks, Add	30.93	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	31.96	
07 53 23 00-0012	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	265.97	64.43
			Note: Includes fasteners.		
			For Up To 10, Add	78.96	
			For >10 To 20, Add	45.92	
			For >20 To 40, Add	26.18	
			For >75 To 100, Deduct	-13.09	
			For >100 To 200, Deduct	-29.40	
			For >200, Deduct	-42.50	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	16.90	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Mechanically Fastened To Concrete Decks, Add	32.21	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.24	
07 53 23 00-0013	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	374.95	67.00
			Note: Includes fasteners.		
			For Up To 10, Add	101.79	
			For >10 To 20, Add	57.60	
			For >20 To 40, Add	32.15	
			For >75 To 100, Deduct	-16.07	
			For >100 To 200, Deduct	-35.50	
			For >200, Deduct	-51.57	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Low Slope Fire Rated, Add	6.77	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	64.62	
			For Mechanically Fastened To Concrete Decks, Add	33.50	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.53	
07 53 23 00-0014			Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane Accessories <small>(07 53 23)</small>		
07 53 23 00-0015	SQ		Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat	60.24	
			For Up To 10, Add	16.17	
			For >10 To 20, Add	9.12	
			For >20 To 40, Add	5.07	
			For >75 To 100, Deduct	-2.54	
			For >100 To 200, Deduct	-5.59	
			For >200, Deduct	-8.13	
07 53 23 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat	62.22	
			Note: 55% solids by volume.		
			For Up To 10, Add	16.57	
			For >10 To 20, Add	9.32	
			For >20 To 40, Add	5.17	
			For >75 To 100, Deduct	-2.59	
			For >100 To 200, Deduct	-5.69	
			For >200, Deduct	-8.28	
07 53 23 00-0017	EA		Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	38.82	9.79
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018	EA		>4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	54.46	9.79
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019	EA		>8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	99.58	9.79
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0020 EA 6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	131.47	10.82
07 53 23 00-0021 LF 30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad Note: Includes factory installed peel and stick adhesive tape.	29.76	5.98
07 53 23 00-0022 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing.....	5.76	1.54
07 53 23 00-0023 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing	7.30	2.32

07 53 29 Polyisobutylene Roofing (07 53)

07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes (07 53 29)

Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.

07 53 29 00-0002 SQ 100 Mil, Single Ply PIB Roofing Membrane, Ballasted	430.20	46.39
Note: Includes ballast.		
For Up To 10, Add	104.60	
For >10 To 20, Add	56.94	
For >20 To 40, Add	30.79	
For >75 To 100, Deduct	-15.39	
For >100 To 200, Deduct	-33.11	
For >200, Deduct	-48.50	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
07 53 29 00-0003 SQ 100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%)	484.46	67.00
Note: Includes adhesive.		
For Up To 10, Add	123.69	
For >10 To 20, Add	68.55	
For >20 To 40, Add	37.62	
For >75 To 100, Deduct	-18.81	
For >100 To 200, Deduct	-40.97	
For >200, Deduct	-59.79	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
07 53 29 00-0004 SQ 100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered	584.06	87.62
Note: Includes adhesive.		
For Up To 10, Add	151.86	
For >10 To 20, Add	84.69	
For >20 To 40, Add	46.73	
For >75 To 100, Deduct	-23.36	
For >100 To 200, Deduct	-51.11	
For >200, Deduct	-74.47	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	

07 54 Thermoplastic Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 54 19 Polyvinyl-Chloride Roofing (07 54)

07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes (07 54 19)

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	208.07	41.23
Note: Includes ballast.		
For Up To 10, Add	58.11	
For >10 To 20, Add	33.18	
For >20 To 40, Add	18.65	
For >75 To 100, Deduct	-9.33	
For >100 To 200, Deduct	-20.71	
For >200, Deduct	-30.04	
For 15 Year Warranty, Add	3.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	37.92	
07 54 19 00-0003 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	233.05	43.81
Note: Includes ballast.		
For Up To 10, Add	64.13	
For >10 To 20, Add	36.45	
For >20 To 40, Add	20.41	
For >75 To 100, Deduct	-10.21	
For >100 To 200, Deduct	-22.61	
For >200, Deduct	-32.81	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Colors, Add	26.00	
For Integral Polyester Fleece-Backing, Add	37.92	

07 Thermal And Moisture Protection

07 50 Membrane Roofing

07 54 Thermoplastic Membrane Roofing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54	19 00-0004	SQ	72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	260.96	45.10
			Note: Includes ballast.		
			For Up To 10, Add	70.23	
			For >10 To 20, Add	39.62	
			For >20 To 40, Add	22.07	
			For >75 To 100, Deduct	-11.03	
			For >100 To 200, Deduct	-24.32	
			For >200, Deduct	-35.36	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54	19 00-0005	SQ	80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	274.57	46.39
			Note: Includes ballast.		
			For Up To 10, Add	73.47	
			For >10 To 20, Add	41.37	
			For >20 To 40, Add	23.01	
			For >75 To 100, Deduct	-11.50	
			For >100 To 200, Deduct	-25.33	
			For >200, Deduct	-36.83	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54	19 00-0006	SQ	48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	305.04	82.47
			Note: Includes adhesive.		
			For Up To 10, Add	93.99	
			For >10 To 20, Add	55.24	
			For >20 To 40, Add	31.75	
			For >75 To 100, Deduct	-15.87	
			For >100 To 200, Deduct	-35.87	
			For >200, Deduct	-51.74	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	48.17	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54	19 00-0007	SQ	60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	330.04	85.04
			Note: Includes adhesive.		
			For Up To 10, Add	100.03	
			For >10 To 20, Add	58.52	
			For >20 To 40, Add	33.51	
			For >75 To 100, Deduct	-16.76	
			For >100 To 200, Deduct	-37.76	
			For >200, Deduct	-54.52	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	48.17	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54	19 00-0008	SQ	72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	357.95	86.33
			Note: Includes adhesive.		
			For Up To 10, Add	106.12	
			For >10 To 20, Add	61.69	
			For >20 To 40, Add	35.16	
			For >75 To 100, Deduct	-17.58	
			For >100 To 200, Deduct	-39.48	
			For >200, Deduct	-57.06	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	48.17	
			For Integral Polyester Fleece-Backing, Add	37.92	
07 54	19 00-0009	SQ	80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered	371.56	87.62
			Note: Includes adhesive.		
			For Up To 10, Add	109.36	
			For >10 To 20, Add	63.44	
			For >20 To 40, Add	36.10	
			For >75 To 100, Deduct	-18.05	
			For >100 To 200, Deduct	-40.48	
			For >200, Deduct	-58.54	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	48.17	
			For Integral Polyester Fleece-Backing, Add	37.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0010 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened 230.03		61.85
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	70.75	
<i>For >10 To 20, Add</i>	41.56	
<i>For >20 To 40, Add</i>	23.87	
<i>For >75 To 100, Deduct</i>	-11.94	
<i>For >100 To 200, Deduct</i>	-26.96	
<i>For >200, Deduct</i>	-38.90	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	30.93	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	31.96	
07 54 19 00-0011 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened 255.02		64.43
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	76.77	
<i>For >10 To 20, Add</i>	44.83	
<i>For >20 To 40, Add</i>	25.64	
<i>For >75 To 100, Deduct</i>	-12.82	
<i>For >100 To 200, Deduct</i>	-28.86	
<i>For >200, Deduct</i>	-41.68	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.21	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.24	
07 54 19 00-0012 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened 282.94		65.71
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	82.87	
<i>For >10 To 20, Add</i>	48.01	
<i>For >20 To 40, Add</i>	27.29	
<i>For >75 To 100, Deduct</i>	-13.65	
<i>For >100 To 200, Deduct</i>	-30.58	
<i>For >200, Deduct</i>	-44.22	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	32.86	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	33.89	
07 54 19 00-0013 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened 296.54		67.00
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	86.11	
<i>For >10 To 20, Add</i>	49.76	
<i>For >20 To 40, Add</i>	28.23	
<i>For >75 To 100, Deduct</i>	-14.11	
<i>For >100 To 200, Deduct</i>	-31.58	
<i>For >200, Deduct</i>	-45.69	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	37.92	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	34.53	
07 54 19 00-0014 Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)		
07 54 19 00-0015 SQ Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat 60.24		
<i>For Up To 10, Add</i>	16.17	
<i>For >10 To 20, Add</i>	9.12	
<i>For >20 To 40, Add</i>	5.07	
<i>For >75 To 100, Deduct</i>	-2.54	
<i>For >100 To 200, Deduct</i>	-5.59	
<i>For >200, Deduct</i>	-8.13	
07 54 19 00-0016 SQ Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat..... 62.22		
Note: 55% solids by volume.		
<i>For Up To 10, Add</i>	16.57	
<i>For >10 To 20, Add</i>	9.32	
<i>For >20 To 40, Add</i>	5.17	
<i>For >75 To 100, Deduct</i>	-2.59	
<i>For >100 To 200, Deduct</i>	-5.69	
<i>For >200, Deduct</i>	-8.28	
07 54 19 00-0017 EA Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... 62.36		8.76
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0018 EA >3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... 86.88		9.79
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0019 EA >7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... 110.68		10.82
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0020 EA 6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket 140.04		10.82
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 19 00-0021 LF 36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad 25.72		5.98
07 54 19 00-0022 SF Polyvinyl Chloride (PVC) Membrane Base Flashing..... 6.78		1.54

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0023	SF		Polyvinyl Chloride (PVC) Membrane Curb Flashing	8.32	2.32
07 54 19 00-0024	SF		Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing.....	9.02	1.54
Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.					
07 54 23 Thermoplastic-Polyolefin Roofing (07 54)					
07 54 23 00-0001 Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)					
Note: Includes polyester fabric reinforcement and hot air welding of seams.					
07 54 23 00-0002	SQ		45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	320.92	82.47
Note: Includes adhesive.					
For Up To 10, Add				97.17	
For >10 To 20, Add				56.83	
For >20 To 40, Add				32.54	
For >75 To 100, Deduct				-16.27	
For >100 To 200, Deduct				-36.66	
For >200, Deduct				-52.93	
For 15 Year Warranty, Add				3.00	
For Low VOC Adhesive, Add				81.17	
For Integral Polyester Fleece-Backing, Add				33.25	
07 54 23 00-0003	SQ		50 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	334.01	83.75
Note: Includes adhesive.					
For Up To 10, Add				100.30	
For >10 To 20, Add				58.53	
For >20 To 40, Add				33.45	
For >75 To 100, Deduct				-16.73	
For >100 To 200, Deduct				-37.64	
For >200, Deduct				-54.37	
For 15 Year Warranty, Add				3.00	
For 20 Year Warranty, Add				7.00	
For 25 Year Warranty, Add				9.00	
For Low VOC Adhesive, Add				81.17	
For Integral Polyester Fleece-Backing, Add				33.25	
07 54 23 00-0004	SQ		60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	341.27	85.04
Note: Includes adhesive.					
For Up To 10, Add				102.27	
For >10 To 20, Add				59.64	
For >20 To 40, Add				34.07	
For >75 To 100, Deduct				-17.04	
For >100 To 200, Deduct				-38.32	
For >200, Deduct				-55.36	
For 15 Year Warranty, Add				3.00	
For 20 Year Warranty, Add				7.00	
For 25 Year Warranty, Add				9.00	
For Low VOC Adhesive, Add				81.17	
For Integral Polyester Fleece-Backing, Add				33.25	
07 54 23 00-0005	SQ		80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered.....	424.45	87.62
Note: Includes adhesive.					
For Up To 10, Add				119.94	
For >10 To 20, Add				68.73	
For >20 To 40, Add				38.75	
For >75 To 100, Deduct				-19.37	
For >100 To 200, Deduct				-43.13	
For >200, Deduct				-62.50	
For 15 Year Warranty, Add				3.00	
For 20 Year Warranty, Add				7.00	
For 25 Year Warranty, Add				9.00	
For Low VOC Adhesive, Add				81.17	
For Integral Polyester Fleece-Backing, Add				33.25	
07 54 23 00-0006	SQ		45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	220.52	61.85
Note: Includes fasteners.					
For Up To 10, Add				68.84	
For >10 To 20, Add				40.61	
For >20 To 40, Add				23.40	
For >75 To 100, Deduct				-11.70	
For >100 To 200, Deduct				-26.49	
For >200, Deduct				-38.19	
For 15 Year Warranty, Add				3.00	
For Integral Polyester Fleece-Backing, Add				33.25	
For Mechanically Fastened To Concrete Decks, Add				30.93	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add				31.96	
07 54 23 00-0007	SQ		50 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	233.61	63.14
Note: Includes fasteners.					
For Up To 10, Add				71.98	
For >10 To 20, Add				42.30	
For >20 To 40, Add				24.31	
For >75 To 100, Deduct				-12.15	
For >100 To 200, Deduct				-27.47	
For >200, Deduct				-39.62	
For 15 Year Warranty, Add				3.00	
For 20 Year Warranty, Add				7.00	
For 25 Year Warranty, Add				9.00	
For Integral Polyester Fleece-Backing, Add				33.25	
For Mechanically Fastened To Concrete Decks, Add				31.57	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add				32.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0008 SQ 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....	240.85	64.43
Note: Includes fasteners.		
For Up To 10, Add	73.94	
For >10 To 20, Add	43.41	
For >20 To 40, Add	24.93	
For >75 To 100, Deduct	-12.46	
For >100 To 200, Deduct	-28.15	
For >200, Deduct	-40.61	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	32.21	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	33.24	
07 54 23 00-0009 SQ 80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened.....	324.04	67.00
Note: Includes fasteners.		
For Up To 10, Add	91.61	
For >10 To 20, Add	52.51	
For >20 To 40, Add	29.60	
For >75 To 100, Deduct	-14.80	
For >100 To 200, Deduct	-32.95	
For >200, Deduct	-47.75	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	33.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.53	
07 54 23 00-0010 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)		
07 54 23 00-0011 SQ Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat	71.14	
For Up To 10, Add	18.35	
For >10 To 20, Add	10.21	
For >20 To 40, Add	5.62	
For >75 To 100, Deduct	-2.81	
For >100 To 200, Deduct	-6.13	
For >200, Deduct	-8.94	
07 54 23 00-0012 SQ Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat.....	62.22	
Note: 55% solids by volume.		
For Up To 10, Add	16.57	
For >10 To 20, Add	9.32	
For >20 To 40, Add	5.17	
For >75 To 100, Deduct	-2.59	
For >100 To 200, Deduct	-5.69	
For >200, Deduct	-8.28	
For Tan Or Gray Color, Add	2.08	
07 54 23 00-0013 EA Up To 3" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	54.04	8.76
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0014 EA >3" To 8" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	58.41	9.79
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0015 EA 6" Diameter, Prefabricated TPO Penetration Pocket.....	105.39	10.82
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 23 00-0016 LF 30" Wide, TPO Walkway Protection Pad	25.43	5.98
07 54 23 00-0017 SF Thermoplastic Polyolefin Membrane Base Flashing.....	7.07	1.54
07 54 23 00-0018 SF Thermoplastic Polyolefin Curb Flashing	6.35	1.54
For Tan Or Gray Color, Add	0.09	
07 54 23 00-0019 SF Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing.....	10.17	1.54
Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.		
07 56 Fluid-Applied Roofing (07 50)		
07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)		
07 56 00 00-0002 SQ 60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing	954.48	137.07
For Each Additional Coat, Add	143.17	
07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)		
07 56 00 00-0004 SQ 2 Mil Vinyl Liquid Roofing.....	943.05	144.44
07 56 00 00-0005 SQ 4 Mil Vinyl Liquid Roofing.....	1,054.92	161.31
07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)		
07 56 00 00-0007 SQ 65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	374.64	82.76
07 56 00 00-0008 SQ 65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....	454.86	82.76
07 56 00 00-0009 SQ 65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	515.19	82.76
07 56 00 00-0010 Rubberized Acrylic Roof Coating, Sprayed On (07 56)		
Note: As manufactured by Tru-Co, Inc.		
07 56 00 00-0011 Rubberized Acrylic Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 56 Fluid-Applied Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 56 00 00-0012	SQ		Elastomeric Installation Over Urethane Foam	849.37	
07 56 00 00-0013	SQ		Elastomeric Installation Over Decks	871.90	
07 56 00 00-0014	SQ		Elastomeric Installation Over Exterior, Waterproofing	350.80	
07 56 00 00-0015	SQ		Installation Over Existing Tar (Asphalt) And Gravel Roof	1,111.46	
07 56 00 00-0016	SQ		Installation Over New Construction, Waterproofing	620.62	
07 56 00 00-0017	SQ		Installation Over Mobile Home	409.80	
07 56 00 00-0018	SQ		Installation Over Corrugated Metal Roofs	480.39	
07 56 00 00-0019	SQ		Installation Over Granulate Mineral Surface, Cap Sheet (Semi-Smooth) Surface	919.97	
07 56 00 00-0020	SQ		4" Acrylic Gel With Fabric (Apply At Edges)	3.26	
07 56 00 00-0021	SQ		6" Acrylic Gel With Fabric (Apply At Edges)	4.61	
07 56 00 00-0022			Polyurethane Roof Coating, Sprayed On Assemblies (07 56) Note: Includes pressure wash, primer, base coat, polyester reinforcement, top coat and finish coat.		
07 56 00 00-0023	SF		Up To 50 SF White (High-Albedo) Polyurethane Coating	10.80	
07 56 00 00-0024	SF		>50 To 100 SF White (High-Albedo) Polyurethane Coating	10.36	
07 56 00 00-0025	SF		>100 To 500 SF White (High-Albedo) Polyurethane Coating	9.92	
07 56 00 00-0026	SEA		>500 To 1,000 SF White (High-Albedo) Polyurethane Coating	9.37	
07 56 00 00-0027			Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)		
07 56 00 00-0028	SQ		90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane	1,599.48	82.76
			Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 60 mil second coat.		
07 56 00 00-0029			Urethane Liquid Roofing Membrane (07 56) Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.		
07 56 00 00-0030	SQ		Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems	79.55	
07 56 00 00-0031	LF		Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems	4.81	
07 56 00 00-0032	SQ		White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ)	302.93	
07 56 00 00-0033	SQ		White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System	79.04	
07 56 00 00-0034	SQ		White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	743.27	
07 56 00 00-0035	SQ		White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	1,121.22	
07 56 00 00-0036	SQ		White-Knight® Plus WC High Strength, Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	768.85	
07 56 00 00-0037	SQ		White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ)	200.41	
07 57 Coated Foamed Roofing (07 50)					
07 57 13 Sprayed Polyurethane Foam Roofing (07 57)					
			Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.		
07 57 13 00-0001			Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002			Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0003			Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002) Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0004	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	289.12	50.18
07 57 13 00-0005	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	342.00	53.76
07 57 13 00-0006	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	394.89	57.35
07 57 13 00-0007	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	510.63	64.51
07 57 13 00-0008	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	606.41	71.68
07 57 13 00-0009	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	712.18	78.85
07 57 13 00-0010	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	817.94	86.01
07 57 13 00-0011			Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002) Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0012	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	296.88	50.18
07 57 13 00-0013	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	349.76	53.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0014 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	402.65	57.35
07 57 13 00-0015 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	508.41	64.51
07 57 13 00-0016 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	614.17	71.68
07 57 13 00-0017 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	719.94	78.85
07 57 13 00-0018 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	825.70	86.01
07 57 13 00-0019 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating <small>(07 57 13 00-0002)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.</small>		
07 57 13 00-0020 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	315.73	50.18
07 57 13 00-0021 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	366.94	53.76
07 57 13 00-0022 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	418.17	57.35
07 57 13 00-0023 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	523.93	64.51
07 57 13 00-0024 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	671.16	71.68
07 57 13 00-0025 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	785.36	78.85
07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating	899.54	86.01
07 57 13 00-0027 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating <small>(07 57 13 00-0001)</small>		
07 57 13 00-0028 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.</small>		
07 57 13 00-0029 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	321.27	50.18
07 57 13 00-0030 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	378.36	53.76
07 57 13 00-0031 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	435.47	57.35
07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	549.65	64.51
07 57 13 00-0033 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	663.84	71.68
07 57 13 00-0034 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	778.04	78.85
07 57 13 00-0035 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating	892.23	86.01
07 57 13 00-0036 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.</small>		
07 57 13 00-0037 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	332.25	50.18
07 57 13 00-0038 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	389.34	53.76
07 57 13 00-0039 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	446.44	57.35
07 57 13 00-0040 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	560.63	64.51
07 57 13 00-0041 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	674.82	71.68
07 57 13 00-0042 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	789.02	78.85
07 57 13 00-0043 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	903.20	86.01
07 57 13 00-0044 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0027)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.</small>		
07 57 13 00-0045 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	340.78	50.18

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0046	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	397.88	53.76
07 57 13 00-0047	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	454.98	57.35
07 57 13 00-0048	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	569.17	64.51
07 57 13 00-0049	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	683.35	71.68
07 57 13 00-0050	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	797.55	78.85
07 57 13 00-0051	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	911.74	86.01

07 58 Roll Roofing (07 50)**07 58 00 00-0001 Prepared Roll Roofing** (07 58)

Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.

07 58 00 00-0002	SQ		Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....	228.29	32.26
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07 59 Membrane Roofing Termination Bar (07 50)**07 59 00 00-0001 Membrane Roofing Termination Bar** (07 59)

07 59 00 00-0002	LF		Membrane Roofing Termination Bar.....	4.44	1.48
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Note: Includes fasteners and caulking.

07 60 Flashing and Sheet Metal (07)**07 61 Sheet Metal Roofing** (07 60)**07 61 13 Standing Seam Sheet Metal Roofing** (07 61)**07 61 13 00-0001 Standing Seam Concealed Fastener Roofing** (07 61 13)**07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing** (07 61 13 00-0001)

07 61 13 00-0003	SF		Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....	25.85	3.65
			For Steep Roof, Over 6 To 12, Add	2.18	
			For Panels <16" Wide, Add	2.64	
			For 140 MPH Wind Load, Add	1.10	
			For Up To 1,500, Add	6.46	
			For >1,500 To 5,000, Add	3.88	
			For >5,000 To 10,000, Add	0.65	
07 61 13 00-0004	SF		Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing.....	28.27	3.95
			For Steep Roof, Over 6 To 12, Add	2.37	
			For Panels <16" Wide, Add	2.87	
			For 140 MPH Wind Load, Add	1.20	
			For Up To 1,500, Add	7.07	
			For >1,500 To 5,000, Add	4.24	
			For >5,000 To 10,000, Add	0.71	
07 61 13 00-0005	SF		Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....	33.07	4.30
			For Steep Roof, Over 6 To 12, Add	2.58	
			For Panels <16" Wide, Add	3.25	
			For 140 MPH Wind Load, Add	1.35	
			For Up To 1,500, Add	8.27	
			For >1,500 To 5,000, Add	4.96	
			For >5,000 To 10,000, Add	0.83	

07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)

07 61 13 00-0007	SF		0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	29.99	3.95
			For Steep Roof, Over 6 To 12, Add	2.37	
			For Panels <16" Wide, Add	2.96	
			For 140 MPH Wind Load, Add	1.23	
			For Up To 1,500, Add	7.50	
			For >1,500 To 5,000, Add	4.50	
			For >5,000 To 10,000, Add	0.75	
			For Tin/Copper, Deduct	-0.44	
07 61 13 00-0008	SF		0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	35.86	4.12
			For Steep Roof, Over 6 To 12, Add	2.47	
			For Panels <16" Wide, Add	3.32	
			For 140 MPH Wind Load, Add	1.38	
			For Up To 1,500, Add	8.97	
			For >1,500 To 5,000, Add	5.38	
			For >5,000 To 10,000, Add	0.90	
			For Tin/Copper, Deduct	-0.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 13 00-0009 SF 0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i> <i>For Tin/Copper, Deduct</i>	40.50 2.58 3.62 1.50 10.13 6.08 1.01 -0.64	4.30
07 61 13 00-0010 SF 0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i> <i>For Tin/Copper, Deduct</i>	50.15 2.71 4.18 1.72 12.54 7.52 1.25 -0.82	4.51
07 61 13 00-0011 Accessories For Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0012 LF Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	104.35 5.65 3.59	7.53
07 61 13 00-0013 LF Eave Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	62.93 5.65 2.76	7.53
07 61 13 00-0014 LF Valley Flashing For Copper Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	143.52 5.65 4.38	7.53
07 61 13 00-0015 LF Hip Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	107.45 5.65 3.65	7.53
07 61 16 Batten Seam Sheet Metal Roofing (07 61)		
07 61 16 00-0001 Copper Batten Seam Concealed Fastener Roofing (07 61 16)		
07 61 16 00-0002 Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0003 SF 16 Ounce Copper Batten Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	31.71 2.58 3.18 1.32 7.93 4.76 0.79	4.30
07 61 16 00-0004 SF 18 Ounce Copper Batten Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	34.86 2.71 3.42 1.42 8.72 5.23 0.87	4.52
07 61 16 00-0005 SF 20 Ounce Copper Batten Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	40.27 2.84 3.77 1.56 10.07 6.04 1.01	4.74
07 61 16 00-0006 Zinc/Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0007 SF 0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i> <i>For Tin/Copper, Deduct</i>	31.90 2.37 3.05 1.27 7.98 4.79 0.80 -0.48	3.95
07 61 16 00-0008 SF 0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i> <i>For Tin/Copper, Deduct</i>	38.59 2.47 3.45 1.43 9.65 5.79 0.96 -0.61	4.12

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 16 00-0009	SF		0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	43.03	4.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
			<i>For Panels <16" Wide, Add</i>	3.74	
			<i>For 140 MPH Wind Load, Add</i>	1.55	
			<i>For Up To 1,500, Add</i>	10.76	
			<i>For >1,500 To 5,000, Add</i>	6.45	
			<i>For >5,000 To 10,000, Add</i>	1.08	
			<i>For Tin/Copper, Deduct</i>	-0.69	
07 61 16 00-0010	SF		0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	53.41	4.51
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
			<i>For Panels <16" Wide, Add</i>	4.34	
			<i>For 140 MPH Wind Load, Add</i>	1.79	
			<i>For Up To 1,500, Add</i>	13.35	
			<i>For >1,500 To 5,000, Add</i>	8.01	
			<i>For >5,000 To 10,000, Add</i>	1.34	
			<i>For Tin/Copper, Deduct</i>	-0.89	
07 61 19 Flat Seam Sheet Metal Roofing (07 61)					
07 61 19 00-0001			Copper Flat Seam Concealed Fastener Roofing (07 61 19)		
07 61 19 00-0002			Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0003	SF		16 Ounce Copper Flat Seam Concealed Fastener Roofing	24.92	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.37	
			<i>For Panels <16" Wide, Add</i>	2.71	
			<i>For 140 MPH Wind Load, Add</i>	1.13	
			<i>For Up To 1,500, Add</i>	6.23	
			<i>For >1,500 To 5,000, Add</i>	3.74	
			<i>For >5,000 To 10,000, Add</i>	0.62	
07 61 19 00-0004	SF		18 Ounce Copper Flat Seam Concealed Fastener Roofing	27.26	4.12
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.47	
			<i>For Panels <16" Wide, Add</i>	2.89	
			<i>For 140 MPH Wind Load, Add</i>	1.20	
			<i>For Up To 1,500, Add</i>	6.82	
			<i>For >1,500 To 5,000, Add</i>	4.09	
			<i>For >5,000 To 10,000, Add</i>	0.68	
07 61 19 00-0005	SF		20 Ounce Copper Flat Seam Concealed Fastener Roofing	31.26	4.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
			<i>For Panels <16" Wide, Add</i>	3.16	
			<i>For 140 MPH Wind Load, Add</i>	1.31	
			<i>For Up To 1,500, Add</i>	7.82	
			<i>For >1,500 To 5,000, Add</i>	4.69	
			<i>For >5,000 To 10,000, Add</i>	0.78	
07 61 19 00-0006			Zinc/Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0007	SF		0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	28.27	3.95
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.37	
			<i>For Panels <16" Wide, Add</i>	2.87	
			<i>For 140 MPH Wind Load, Add</i>	1.20	
			<i>For Up To 1,500, Add</i>	7.07	
			<i>For >1,500 To 5,000, Add</i>	4.24	
			<i>For >5,000 To 10,000, Add</i>	0.71	
			<i>For Tin/Copper, Deduct</i>	-0.41	
07 61 19 00-0008	SF		0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	34.06	4.12
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.47	
			<i>For Panels <16" Wide, Add</i>	3.23	
			<i>For 140 MPH Wind Load, Add</i>	1.34	
			<i>For Up To 1,500, Add</i>	8.52	
			<i>For >1,500 To 5,000, Add</i>	5.11	
			<i>For >5,000 To 10,000, Add</i>	0.85	
			<i>For Tin/Copper, Deduct</i>	-0.52	
07 61 19 00-0009	SF		0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	38.05	4.30
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.58	
			<i>For Panels <16" Wide, Add</i>	3.50	
			<i>For 140 MPH Wind Load, Add</i>	1.45	
			<i>For Up To 1,500, Add</i>	9.51	
			<i>For >1,500 To 5,000, Add</i>	5.71	
			<i>For >5,000 To 10,000, Add</i>	0.95	
			<i>For Tin/Copper, Deduct</i>	-0.59	
07 61 19 00-0010	SF		0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	47.07	4.51
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
			<i>For Panels <16" Wide, Add</i>	4.02	
			<i>For 140 MPH Wind Load, Add</i>	1.66	
			<i>For Up To 1,500, Add</i>	11.77	
			<i>For >1,500 To 5,000, Add</i>	7.06	
			<i>For >5,000 To 10,000, Add</i>	1.18	
			<i>For Tin/Copper, Deduct</i>	-0.76	

07 62 Sheet Metal Flashing and Trim (07 60)**07 62 13 Fabricated Copings (07 62)****07 62 13 00-0001 Lead Flashing And Trim (07 62 13)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0002 SF 2.5 LB/SF Sheet Lead Flashing.....	21.89	6.31
<i>For Up To 100, Add</i>	5.47	
07 62 13 00-0003 SF 4 LB/SF Sheet Lead Flashing.....	27.75	6.31
<i>For Up To 100, Add</i>	6.94	
07 62 13 00-0004 Copper Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0005 Copper Flashing And Trim <small>(07 62 13 00-0004)</small>		
07 62 13 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim.....	24.35	6.16
<i>For Up To 100, Add</i>	6.09	
<i>For >500 To 2,000, Deduct</i>	-3.41	
<i>For >2,000, Deduct</i>	-4.02	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.44	
<i>For Wrap Around Window Panning, Add</i>	12.19	
07 62 13 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim.....	25.20	6.31
<i>For Up To 100, Add</i>	6.30	
<i>For >500 To 2,000, Deduct</i>	-3.53	
<i>For >2,000, Deduct</i>	-4.15	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.55	
<i>For Wrap Around Window Panning, Add</i>	12.74	
07 62 13 00-0008 SF 24 Ounce, 0.032" Thick, Copper Flashing And Trim.....	28.30	6.73
<i>For Up To 100, Add</i>	7.08	
<i>For >500 To 2,000, Deduct</i>	-3.95	
<i>For >2,000, Deduct</i>	-4.69	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.67	
<i>For Wrap Around Window Panning, Add</i>	13.35	
07 62 13 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim.....	33.96	7.01
<i>For Up To 100, Add</i>	8.49	
<i>For >500 To 2,000, Deduct</i>	-4.70	
<i>For >2,000, Deduct</i>	-5.69	
<i>For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add</i>	2.80	
<i>For Wrap Around Window Panning, Add</i>	14.02	
07 62 13 00-0010 Stainless Steel Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0011 Stainless Steel Flashing And Trim <small>(07 62 13 00-0010)</small>		
07 62 13 00-0012 SF 32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....	11.10	3.36
<i>For Up To 100, Add</i>	2.78	
<i>For Wrap Around Window Panning, Add</i>	8.65	
<i>For Mechanically Keyed Flashing, Add</i>	0.98	
07 62 13 00-0013 SF 30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim.....	11.85	3.78
<i>For Up To 100, Add</i>	2.96	
<i>For Wrap Around Window Panning, Add</i>	8.79	
<i>For Mechanically Keyed Flashing, Add</i>	1.22	
07 62 13 00-0014 SF 28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim.....	12.60	4.20
<i>For Up To 100, Add</i>	3.15	
<i>For Wrap Around Window Panning, Add</i>	8.93	
<i>For Mechanically Keyed Flashing, Add</i>	1.47	
07 62 13 00-0015 SF 26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim.....	13.81	4.63
<i>For Up To 100, Add</i>	3.45	
<i>For Wrap Around Window Panning, Add</i>	9.22	
<i>For Mechanically Keyed Flashing, Add</i>	1.84	
07 62 13 00-0016 SF 24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim.....	15.85	4.91
<i>For Up To 100, Add</i>	3.96	
<i>For Wrap Around Window Panning, Add</i>	9.74	
<i>For Mechanically Keyed Flashing, Add</i>	2.44	
07 62 13 00-0017 SF 22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim.....	17.20	5.15
<i>For Up To 100, Add</i>	4.30	
<i>For Wrap Around Window Panning, Add</i>	10.30	
<i>For Mechanically Keyed Flashing, Add</i>	2.76	
07 62 13 00-0018 SF 20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim.....	18.38	5.47
<i>For Up To 100, Add</i>	4.60	
<i>For Wrap Around Window Panning, Add</i>	10.90	
<i>For Mechanically Keyed Flashing, Add</i>	2.99	
07 62 13 00-0019 Aluminum Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0020 Aluminum Flashing And Trim <small>(07 62 13 00-0019)</small>		
07 62 13 00-0021 SF 0.013" Thick, Mill Finish, Aluminum Flashing And Trim.....	12.55	4.34
<i>For Up To 100, Add</i>	3.14	
<i>For Baked Aluminum Colors, Add</i>	0.29	
<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0022 SF 0.016" Thick, Mill Finish, Aluminum Flashing And Trim.....	13.19	4.34
<i>For Up To 100, Add</i>	3.30	
<i>For Baked Aluminum Colors, Add</i>	0.35	
<i>For Wrap Around Window Panning, Add</i>	9.66	
07 62 13 00-0023 SF 0.019" Thick, Mill Finish, Aluminum Flashing And Trim.....	13.68	4.34
<i>For Up To 100, Add</i>	3.42	
<i>For Baked Aluminum Colors, Add</i>	0.40	
<i>For Wrap Around Window Panning, Add</i>	9.66	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0024 SF 0.024" Thick, Mill Finish, Aluminum Flashing And Trim	14.41	4.34
For Up To 100, Add	3.60	
For Baked Aluminum Colors, Add	0.48	
For Wrap Around Window Panning, Add	9.66	
07 62 13 00-0025 SF 0.032" Thick, Mill Finish, Aluminum Flashing And Trim	15.42	4.34
For Up To 100, Add	3.86	
For Baked Aluminum Colors, Add	0.58	
For Wrap Around Window Panning, Add	9.66	
07 62 13 00-0026 SF 0.040" Thick, Mill Finish, Aluminum Flashing And Trim	16.04	4.34
For Up To 100, Add	4.01	
For Baked Aluminum Colors, Add	0.64	
For Wrap Around Window Panning, Add	9.66	
07 62 13 00-0027 SF 0.050" Thick, Mill Finish, Aluminum Flashing And Trim	16.55	4.34
For Up To 100, Add	4.14	
For Baked Aluminum Colors, Add	0.69	
For Wrap Around Window Panning, Add	9.66	
07 62 13 00-0028 Steel Flashing And Trim (07 62 13)		
07 62 13 00-0029 Galvanized Steel Flashing And Trim (07 62 13 00-0028)		
07 62 13 00-0030 SF 28 Gauge, 0.019" Thick, Galvanized Steel Flashing	13.88	4.20
For Up To 100, Add	3.47	
For Wrap Around Window Panning, Add	8.93	
07 62 13 00-0031 SF 26 Gauge, 0.022" Thick, Galvanized Steel Flashing	14.44	4.63
For Up To 100, Add	3.61	
For Wrap Around Window Panning, Add	9.22	
07 62 13 00-0032 SF 24 Gauge, 0.028" Thick, Galvanized Steel Flashing	15.37	4.91
For Up To 100, Add	3.84	
For Wrap Around Window Panning, Add	9.74	
07 62 13 00-0033 SF 22 Gauge, 0.034" Thick, Galvanized Steel Flashing	16.34	5.15
For Up To 100, Add	4.09	
For Wrap Around Window Panning, Add	10.30	
07 62 13 00-0034 SF 20 Gauge, 0.04" Thick, Galvanized Steel Flashing	17.66	5.47
For Up To 100, Add	4.42	
For Wrap Around Window Panning, Add	10.90	
07 62 19 Fabricated Gravel Stops and Fasciae (07 62)		
07 62 19 00-0001 Drip Edge (07 62 19)		
07 62 19 00-0002 Aluminum Drip Edge (07 62 19 00-0001)		
Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0003 KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0004 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0005 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	10.62	1.62
07 62 19 00-0006 LF >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.13	1.72
07 62 19 00-0007 LF >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.78	1.94
07 62 19 00-0008 LF >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.69	2.04
07 62 19 00-0009 LF >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.40	2.15
07 62 19 00-0010 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0011 LF Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	11.31	1.62
07 62 19 00-0012 LF >5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.90	1.72
07 62 19 00-0013 LF >7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.94	1.94
07 62 19 00-0014 LF >9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.07	2.04
07 62 19 00-0015 LF >12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.71	2.15
07 62 19 00-0016 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0017 LF Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	12.00	1.62
07 62 19 00-0018 LF >5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.82	1.72
07 62 19 00-0019 LF >7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.05	1.94
07 62 19 00-0020 LF >9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.46	2.04
07 62 19 00-0021 LF >12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	25.55	2.15
07 62 19 00-0022 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0023 LF Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.39	1.62
07 62 19 00-0024 LF >5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.67	1.72
07 62 19 00-0025 LF >7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.25	1.94
07 62 19 00-0026 LF >9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.23	2.04
07 62 19 00-0027 LF >12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	29.25	2.15
07 62 19 00-0028 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0029 LF Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.85	1.62
07 62 19 00-0030 LF >5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.36	1.72
07 62 19 00-0031 LF >7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.98	1.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0032 LF >9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.16	2.04
07 62 19 00-0033 LF >12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	30.48	2.15
07 62 19 00-0034 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0035 LF Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	15.47	1.62
07 62 19 00-0036 LF >5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.44	1.72
07 62 19 00-0037 LF >7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.52	1.94
07 62 19 00-0038 LF >9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.39	2.04
07 62 19 00-0039 LF >12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	34.80	2.15
07 62 19 00-0040 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0041 LF Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.78	1.62
07 62 19 00-0042 LF >5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	22.53	1.72
07 62 19 00-0043 LF >7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.18	1.94
07 62 19 00-0044 LF >9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.01	2.04
07 62 19 00-0045 LF >12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	40.96	2.15
07 62 19 00-0046 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0047 LF Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.55	1.62
07 62 19 00-0048 LF >5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	26.22	1.72
07 62 19 00-0049 LF >7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	30.57	1.94
07 62 19 00-0050 LF >9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	37.56	2.04
07 62 19 00-0051 LF >12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	48.36	2.15
07 62 19 00-0052 Mill Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0053 0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0054 LF Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	8.82	1.62
07 62 19 00-0055 LF >5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	10.69	1.72
07 62 19 00-0056 LF >7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	11.96	1.94
07 62 19 00-0057 LF >9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	14.10	2.04
07 62 19 00-0058 LF >12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	17.45	2.15
07 62 19 00-0059 0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0060 LF Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	9.30	1.62
07 62 19 00-0061 LF >5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	11.22	1.72
07 62 19 00-0062 LF >7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	12.76	1.94
07 62 19 00-0063 LF >9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	15.06	2.04
07 62 19 00-0064 LF >12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	18.35	2.15
07 62 19 00-0065 0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0066 LF Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	9.78	1.62
07 62 19 00-0067 LF >5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	11.86	1.72
07 62 19 00-0068 LF >7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	13.53	1.94
07 62 19 00-0069 LF >9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	16.01	2.04
07 62 19 00-0070 LF >12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	19.63	2.15
07 62 19 00-0071 0.032" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0072 LF Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	10.74	1.62
07 62 19 00-0073 LF >5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	13.13	1.72
07 62 19 00-0074 LF >7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	15.04	1.94
07 62 19 00-0075 LF >9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	17.92	2.04
07 62 19 00-0076 LF >12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	22.18	2.15
07 62 19 00-0077 0.040" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0078 LF Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	11.06	1.62
07 62 19 00-0079 LF >5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	13.61	1.72
07 62 19 00-0080 LF >7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	15.54	1.94
07 62 19 00-0081 LF >9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	18.56	2.04
07 62 19 00-0082 LF >12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	23.03	2.15
07 62 19 00-0083 0.050" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0084 LF Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	12.17	1.62
07 62 19 00-0085 LF >5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	15.05	1.72
07 62 19 00-0086 LF >7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	17.30	1.94
07 62 19 00-0087 LF >9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	20.79	2.04
07 62 19 00-0088 LF >12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	26.00	2.15
07 62 19 00-0089 0.063" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0090	LF		Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	13.77	1.62
07 62 19 00-0091	LF		>5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	17.17	1.72
07 62 19 00-0092	LF		>7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	19.82	1.94
07 62 19 00-0093	LF		>9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	23.98	2.04
07 62 19 00-0094	LF		>12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	30.25	2.15
07 62 19 00-0095			0.080" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0096	LF		Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	15.68	1.62
07 62 19 00-0097	LF		>5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	19.72	1.72
07 62 19 00-0098	LF		>7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	22.85	1.94
07 62 19 00-0099	LF		>9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	27.81	2.04
07 62 19 00-0100	LF		>12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	35.35	2.15
07 62 19 00-0101			Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0102			0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0103	LF		Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	10.96	1.62
07 62 19 00-0104	LF		>5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.60	1.72
07 62 19 00-0105	LF		>7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.33	1.94
07 62 19 00-0106	LF		>9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.38	2.04
07 62 19 00-0107	LF		>12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.35	2.15
07 62 19 00-0108			0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0109	LF		Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	11.70	1.62
07 62 19 00-0110	LF		>5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.42	1.72
07 62 19 00-0111	LF		>7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.55	1.94
07 62 19 00-0112	LF		>9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.85	2.04
07 62 19 00-0113	LF		>12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.74	2.15
07 62 19 00-0114			0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0115	LF		Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	12.43	1.62
07 62 19 00-0116	LF		>5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.40	1.72
07 62 19 00-0117	LF		>7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.73	1.94
07 62 19 00-0118	LF		>9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.32	2.04
07 62 19 00-0119	LF		>12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	26.70	2.15
07 62 19 00-0120			0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0121	LF		Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.90	1.62
07 62 19 00-0122	LF		>5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.35	1.72
07 62 19 00-0123	LF		>7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.06	1.94
07 62 19 00-0124	LF		>9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.26	2.04
07 62 19 00-0125	LF		>12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	30.62	2.15
07 62 19 00-0126			0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0127	LF		Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.39	1.62
07 62 19 00-0128	LF		>5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.09	1.72
07 62 19 00-0129	LF		>7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.84	1.94
07 62 19 00-0130	LF		>9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.24	2.04
07 62 19 00-0131	LF		>12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	31.93	2.15
07 62 19 00-0132			0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0133	LF		Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.11	1.62
07 62 19 00-0134	LF		>5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	20.29	1.72
07 62 19 00-0135	LF		>7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.53	1.94
07 62 19 00-0136	LF		>9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.67	2.04
07 62 19 00-0137	LF		>12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	36.50	2.15
07 62 19 00-0138			0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0139	LF		Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.56	1.62
07 62 19 00-0140	LF		>5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	23.56	1.72
07 62 19 00-0141	LF		>7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	27.41	1.94
07 62 19 00-0142	LF		>9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	33.57	2.04
07 62 19 00-0143	LF		>12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	43.03	2.15
07 62 19 00-0144			0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0145	LF		Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.50	1.62
07 62 19 00-0146	LF		>5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	27.48	1.72
07 62 19 00-0147	LF		>7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	32.06	1.94
07 62 19 00-0148	LF		>9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	39.45	2.04
07 62 19 00-0149	LF		>12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	50.87	2.15



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0150				Galvanized Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0151				Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0152				26 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
			LF	Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	10.15	1.62
			LF	>5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	12.40	1.72
			LF	>7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	14.12	1.94
			LF	>9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	16.76	2.04
			LF	>12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	20.62	2.15
07 62 19 00-0158				24 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
			LF	Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	10.96	1.62
			LF	>5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	13.47	1.72
			LF	>7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	15.38	1.94
			LF	>9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	18.36	2.04
			LF	>12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	22.74	2.15
07 62 19 00-0164				KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0165				26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
			LF	Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	12.55	1.62
			LF	>5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	15.61	1.72
			LF	>7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	17.91	1.94
			LF	>9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	21.54	2.04
			LF	>12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	27.00	2.15
07 62 19 00-0171				24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
			LF	Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	13.70	1.62
			LF	>5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	17.16	1.72
			LF	>7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	19.74	1.94
			LF	>9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	23.85	2.04
			LF	>12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	30.08	2.15
07 62 19 00-0177				Stainless Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0178				26 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
			LF	Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	16.96	1.62
			LF	>5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	21.43	1.72
			LF	>7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge.....	24.88	1.94
			LF	>9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	30.37	2.04
			LF	>12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge.....	38.78	2.15
07 62 19 00-0184				24 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
			LF	Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	20.78	1.62
			LF	>5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge.....	26.52	1.72
			LF	>7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge.....	30.95	1.94
			LF	>9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge.....	38.01	2.04
			LF	>12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge.....	48.95	2.15
07 62 19 00-0190				22 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
			LF	Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge.....	25.27	1.62
			LF	>5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge.....	32.51	1.72
			LF	>7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge.....	38.05	1.94
			LF	>9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge.....	46.99	2.04
			LF	>12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge.....	60.93	2.15
07 63				Sheet Metal Roofing Specialties (07 60)		
07 63 00 00-0001				Pitch Pockets (07 63) Note: Cut into deck, filled with non-shrink grout, includes blocking.		
07 63 00 00-0002				24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets (07 63 00 00-0001)		
			EA	4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	80.19	
				<i>For Pourable Sealer Filled, Add</i>	31.59	
				<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	15.80	
			EA	6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	95.01	
				<i>For Pourable Sealer Filled, Add</i>	71.12	
				<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	35.66	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 63 Sheet Metal Roofing Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0005	EA		8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	114.59	
			<i>For Pourable Sealer Filled, Add</i>	126.37	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	63.04	
07 63 00 00-0006	EA		8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	126.34	
			<i>For Pourable Sealer Filled, Add</i>	157.96	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	79.24	
07 63 00 00-0007	EA		8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	137.08	
			<i>For Pourable Sealer Filled, Add</i>	189.55	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	94.79	
07 63 00 00-0008	SF		24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	160.66	
			<i>For Pourable Sealer Filled, Add</i>	284.32	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	141.29	
07 63 00 00-0009			16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0010	EA		4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	97.56	
			<i>For Pourable Sealer Filled, Add</i>	31.59	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	15.80	
07 63 00 00-0011	EA		6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	115.46	
			<i>For Pourable Sealer Filled, Add</i>	71.12	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	35.66	
07 63 00 00-0012	EA		8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	138.73	
			<i>For Pourable Sealer Filled, Add</i>	126.37	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	63.04	
07 63 00 00-0013	EA		8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	154.19	
			<i>For Pourable Sealer Filled, Add</i>	157.96	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	79.24	
07 63 00 00-0014	EA		8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	165.46	
			<i>For Pourable Sealer Filled, Add</i>	189.55	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	94.79	
07 63 00 00-0015	SF		16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	190.74	
			<i>For Pourable Sealer Filled, Add</i>	284.32	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	141.29	
07 63 00 00-0016			24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0017	EA		4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	99.90	
			<i>For Pourable Sealer Filled, Add</i>	31.59	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	15.80	
07 63 00 00-0018	EA		6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	117.31	
			<i>For Pourable Sealer Filled, Add</i>	71.12	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	35.66	
07 63 00 00-0019	EA		8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	135.07	
			<i>For Pourable Sealer Filled, Add</i>	126.37	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	63.04	
07 63 00 00-0020	EA		8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	146.51	
			<i>For Pourable Sealer Filled, Add</i>	157.96	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	79.24	
07 63 00 00-0021	EA		8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	156.85	
			<i>For Pourable Sealer Filled, Add</i>	189.55	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	94.79	
07 63 00 00-0022	SF		24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	179.31	
			<i>For Pourable Sealer Filled, Add</i>	284.32	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	141.29	
07 63 00 00-0023			Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout <small>(07 63 00 00-0001)</small>		
			Note: Includes removing existing filler and refilling with non-shrink grout.		
07 63 00 00-0024	EA		Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....	70.51	
			<i>For Pourable Sealer Filled, Add</i>	31.59	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	15.80	
07 63 00 00-0025	EA		Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....	80.13	
			<i>For Pourable Sealer Filled, Add</i>	71.12	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	35.66	
07 63 00 00-0026	EA		Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....	92.83	
			<i>For Pourable Sealer Filled, Add</i>	126.37	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	63.04	
07 63 00 00-0027	EA		Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout.....	100.99	
			<i>For Pourable Sealer Filled, Add</i>	157.96	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	79.24	
07 63 00 00-0028	EA		Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout.....	109.14	
			<i>For Pourable Sealer Filled, Add</i>	189.55	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	94.79	
07 63 00 00-0029	SF		Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout.....	129.31	
			<i>For Pourable Sealer Filled, Add</i>	284.32	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	141.29	
07 63 00 00-0030			Lead Pipe Flashing For Roofs <small>(07 63)</small>		
			Note: Includes 6" skirt base.		
07 63 00 00-0031	EA		1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	106.35	37.04
07 63 00 00-0032	EA		1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe.....	106.35	37.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0033 EA 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe	124.43	37.04
07 63 00 00-0034 EA 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe	134.76	37.04
07 63 00 00-0035 EA 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe	139.93	37.04
07 63 00 00-0036 EA 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe	142.51	37.04
07 63 00 00-0037 EA 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe	168.34	37.04
07 63 00 00-0038 EA 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe	179.96	37.04
07 63 00 00-0039 Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing (07 63)		
07 63 00 00-0040 EA 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	84.69	23.94
07 63 00 00-0041 EA 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	85.34	23.94
07 63 00 00-0042 EA 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	87.71	23.94
07 63 00 00-0043 EA 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	89.74	23.94
07 65 Flexible Flashing (07 60)		
07 65 16 Modified Bituminous Sheet Flashing (07 65)		
07 65 16 00-0001 Liquid Flashing System For Modified And BUR Systems (07 65 16) See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.		
07 65 16 00-0002 SF 60 Mil, Urethane Elastomer Liquid Applied Flashing	12.90	2.06
Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 30 mil second coat.		
07 65 19 Plastic Sheet Flashing (07 65)		
07 65 19 00-0001 Plastic Flashing And Trim (07 65 19)		
07 65 19 00-0002 Neoprene Flashing (07 65 19 00-0001)		
07 65 19 00-0003 60 Mil Neoprene Flashing (07 65 19 00-0002)		
07 65 19 00-0004 LF 6" Wide Strip, 60 Mil, Neoprene Flashing	8.78	2.90
07 65 19 00-0005 LF 12" Wide Strip, 60 Mil, Neoprene Flashing	11.45	3.11
07 65 19 00-0006 LF 18" Wide Strip, 60 Mil, Neoprene Flashing	14.45	3.44
07 65 19 00-0007 LF 24" Wide Strip, 60 Mil, Neoprene Flashing	17.63	3.87
07 65 33 Flexible Roof Boot (07 65)		
07 65 33 00-0001 Neoprene Roof Boot (07 65 33)		
07 65 33 00-0002 EA 2" Diameter Pipe, Neoprene Roof Boot	45.12	8.93
07 65 33 00-0003 EA 3" Diameter Pipe, Neoprene Roof Boot	53.41	10.00
07 65 33 00-0004 EA 4" Diameter Pipe, Neoprene Roof Boot	59.62	10.76
07 70 Roof and Wall Specialties and Accessories (07)		
07 71 Roof Specialties (07 70)		
07 71 13 Manufactured Copings (07 71)		
07 71 13 00-0001 Galvanized Steel Copings (07 71 13)		
07 71 13 00-0002 KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats (07 71 13 00-0001) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0003 LF 10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	28.08	2.32
07 71 13 00-0004 LF >14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	29.65	2.52
07 71 13 00-0005 LF >16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	33.74	2.64
07 71 13 00-0006 LF >22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	39.14	2.90
07 71 13 00-0007 LF >30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	47.16	3.03
07 71 13 00-0008 Aluminum Copings (07 71 13)		
07 71 13 00-0009 Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0008) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0010 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0011 LF 10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	22.43	2.32
07 71 13 00-0012 LF >14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	23.96	2.52
07 71 13 00-0013 LF >16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	27.84	2.64

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0014 LF >22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.17	2.90
07 71 13 00-0015 LF >30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	41.03	3.03
07 71 13 00-0016 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0017 LF 10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	24.29	2.32
07 71 13 00-0018 LF >14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	25.94	2.52
07 71 13 00-0019 LF >16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	30.18	2.64
07 71 13 00-0020 LF >22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	36.00	2.90
07 71 13 00-0021 LF >30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	44.63	3.03
07 71 13 00-0022 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0023 LF 10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	25.81	2.32
07 71 13 00-0024 LF >14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	27.70	2.52
07 71 13 00-0025 LF >16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.10	2.64
07 71 13 00-0026 LF >22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	41.22	2.90
07 71 13 00-0027 LF >30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	53.08	3.03
07 71 13 00-0028 KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small>		
Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0029 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0030 LF 10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	30.78	2.32
07 71 13 00-0031 LF >14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	32.86	2.52
07 71 13 00-0032 LF >16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	38.39	2.64
07 71 13 00-0033 LF >22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	45.91	2.90
07 71 13 00-0034 LF >30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	57.23	3.03
07 71 13 00-0035 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0036 LF 10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	33.47	2.32
07 71 13 00-0037 LF >14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	35.72	2.52
07 71 13 00-0038 LF >16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	41.78	2.64
07 71 13 00-0039 LF >22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	50.02	2.90
07 71 13 00-0040 LF >30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	62.44	3.03
07 71 13 00-0041 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0028)</small>		
07 71 13 00-0042 LF 10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	35.68	2.32
07 71 13 00-0043 LF >14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	38.28	2.52
07 71 13 00-0044 LF >16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.01	2.64
07 71 13 00-0045 LF >22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	57.59	2.90
07 71 13 00-0046 LF >30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	74.69	3.03
07 71 13 00-0047 Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0008)</small>		
Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0047)</small>		
07 71 13 00-0049 LF 10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	32.40	2.32
07 71 13 00-0050 LF >14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	34.58	2.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0051 LF >16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	40.42	2.64
07 71 13 00-0052 LF >22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	48.38	2.90
07 71 13 00-0053 LF >30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	60.36	3.03
07 71 13 00-0054 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0055 LF 10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	35.25	2.32
07 71 13 00-0056 LF >14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	37.61	2.52
07 71 13 00-0057 LF >16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	44.03	2.64
07 71 13 00-0058 LF >22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	52.73	2.90
07 71 13 00-0059 LF >30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	65.89	3.03
07 71 13 00-0060 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0061 LF 10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	37.59	2.32
07 71 13 00-0062 LF >14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	40.33	2.52
07 71 13 00-0063 LF >16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	48.50	2.64
07 71 13 00-0064 LF >22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	60.75	2.90
07 71 13 00-0065 LF >30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	78.87	3.03
07 71 13 00-0066 Removal And Reinstallation Of Metal Coping (07 71 13)		
07 71 13 00-0067 LF Removal And Reinstallation Of Metal Coping	9.74	
07 71 19 Manufactured Gravel Stops and Fasciae (07 71)		
07 71 19 00-0001 Gravel Stop (07 71 19)		
07 71 19 00-0002 Aluminum Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0003 Aluminum Gravel Stop (07 71 19 00-0002)		
07 71 19 00-0004 KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0005 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0006 LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	31.40	1.83
07 71 19 00-0007 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	32.59	2.15
07 71 19 00-0008 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	33.78	2.37
07 71 19 00-0009 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0010 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	33.31	1.83
07 71 19 00-0011 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	34.59	2.15
07 71 19 00-0012 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	35.89	2.37
07 71 19 00-0013 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0014 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	35.81	1.83
07 71 19 00-0015 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	36.98	2.15
07 71 19 00-0016 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	38.54	2.37
07 71 19 00-0017 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0018 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	37.51	1.83
07 71 19 00-0019 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	38.73	2.15
07 71 19 00-0020 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	40.40	2.37
07 71 19 00-0021 Mill Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0022 0.032" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0023 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	20.78	1.83
07 71 19 00-0024 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	22.50	2.15
07 71 19 00-0025 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop	24.20	2.37

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0026 0.040" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0027 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	22.37	1.83
07 71 19 00-0028 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	23.88	2.15
07 71 19 00-0029 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop	25.26	2.37
07 71 19 00-0030 0.050" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0031 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	23.96	1.83
07 71 19 00-0032 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	25.48	2.15
07 71 19 00-0033 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	26.99	2.37
07 71 19 00-0034 0.063" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0035 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	25.69	1.83
07 71 19 00-0036 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	27.07	2.15
07 71 19 00-0037 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	28.27	2.37
07 71 19 00-0038 Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0039 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0040 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	37.29	1.83
07 71 19 00-0041 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	38.74	2.15
07 71 19 00-0042 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	40.02	2.37
07 71 19 00-0043 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0044 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	39.59	1.83
07 71 19 00-0045 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	41.14	2.15
07 71 19 00-0046 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	42.53	2.37
07 71 19 00-0047 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0048 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	42.59	1.83
07 71 19 00-0049 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	44.01	2.15
07 71 19 00-0050 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	45.19	2.37
07 71 19 00-0051 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop <small>(07 71 19 00-0038)</small>		
07 71 19 00-0052 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	44.62	1.83
07 71 19 00-0053 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	46.11	2.15
07 71 19 00-0054 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	47.38	2.37
07 71 19 00-0055 Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0002)</small> Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0056 KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0057 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0058 LF 4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	35.40	1.94
07 71 19 00-0059 LF >6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	37.74	2.31
07 71 19 00-0060 LF >10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	40.37	2.63
07 71 19 00-0061 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0062 LF 4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	37.32	1.94
07 71 19 00-0063 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	39.74	2.31
07 71 19 00-0064 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	42.48	2.63
07 71 19 00-0065 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0066 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	39.81	1.94
07 71 19 00-0067 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	42.13	2.31
07 71 19 00-0068 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	45.14	2.63
07 71 19 00-0069 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0070 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	41.51	1.94
07 71 19 00-0071 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	43.89	2.31
07 71 19 00-0072 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	47.00	2.63
07 71 19 00-0073 Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0074 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	26.25	1.94
07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	28.20	2.31
07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	30.40	2.63
07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	27.57	1.94
07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	29.58	2.31
07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	31.86	2.63
07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	29.30	1.94
07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	31.23	2.31
07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	33.58	2.63
07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)		
07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	30.46	1.94
07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	32.44	2.31
07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	34.87	2.63
07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)		
07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	41.30	1.94
07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	43.89	2.31
07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.61	2.63
07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	43.60	1.94
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.29	2.31
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	49.12	2.63
07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	46.59	1.94
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	49.16	2.31
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.78	2.63
07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	48.63	1.94
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.27	2.31
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	53.97	2.63
07 71 19 00-0107 Stainless Steel Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0108 Stainless Steel Gravel Stop (07 71 19 00-0107)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	30.14	1.83
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	39.50	2.15
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	58.23	2.37
07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	37.32	1.83
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	49.08	2.15
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	72.60	2.37
07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	44.95	1.83
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	59.25	2.15
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	87.87	2.37
07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0107)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	35.55	1.94
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	46.50	2.31
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	67.21	2.63
07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	42.74	1.94
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	56.08	2.31
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	81.58	2.63
07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0121)</small>		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	50.37	1.94
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	66.25	2.31
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	96.85	2.63
07 71 19 00-0134 Galvanized Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0135 Galvanized Steel Gravel Stop <small>(07 71 19 00-0134)</small>		
07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0135)</small>		
07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop <small>(07 71 19 00-0136)</small>		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	28.87	1.83
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	30.01	2.15
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	31.33	2.37
07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0134)</small>		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0141)</small>		
07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0142)</small>		
07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	32.99	1.94
07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	35.32	2.31
07 71 19 00-0146 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	38.11	2.63
07 71 19 00-0147 Copper Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0148 Copper Gravel Stop <small>(07 71 19 00-0147)</small>		
07 71 19 00-0149 20 Ounce, Copper Gravel Stop <small>(07 71 19 00-0148)</small>		
07 71 19 00-0150 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop.....	47.76	1.83
07 71 19 00-0151 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop.....	54.73	2.15
07 71 19 00-0152 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop.....	63.20	2.37
07 71 19 00-0153 16 Ounce, Copper Gravel Stop <small>(07 71 19 00-0148)</small>		
07 71 19 00-0154 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop.....	57.81	1.83
07 71 19 00-0155 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop.....	67.02	2.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0156 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop.....	76.60	2.37
07 71 19 00-0157 Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158 20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0159 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	49.76	1.94
07 71 19 00-0160 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	57.27	2.31
07 71 19 00-0161 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat	66.41	2.63
07 71 19 00-0162 16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0163 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	59.82	1.94
07 71 19 00-0164 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	69.56	2.31
07 71 19 00-0165 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	79.81	2.63
07 71 19 00-0166 Fascia (07 71 19)		
07 71 19 00-0167 Snap-On Cover Fascia (07 71 19 00-0166) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168 Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0169 KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0168)		
07 71 19 00-0170 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0169)		
07 71 19 00-0171 LF 3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	35.11	2.69
07 71 19 00-0172 LF >5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	39.43	2.79
07 71 19 00-0173 LF >7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	42.21	2.90
07 71 19 00-0174 Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0169)		
07 71 19 00-0175 Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0176 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	239.91	3.77
07 71 19 00-0177 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	256.17	3.77
07 71 19 00-0178 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	266.38	3.77
07 71 19 00-0179 Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0180 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	195.64	3.77
07 71 19 00-0181 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	203.84	3.77
07 71 19 00-0182 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	208.84	3.77
07 71 19 00-0183 Aluminum Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0184 KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0185 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0186 LF 3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	20.22	2.69
07 71 19 00-0187 LF >5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	22.78	2.79
07 71 19 00-0188 LF >7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	24.16	2.90
07 71 19 00-0189 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0190 LF 3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	21.19	2.69
07 71 19 00-0191 LF >5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	24.03	2.79
07 71 19 00-0192 LF >7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	25.56	2.90

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 19 00-0193		Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0194)		
07 71 19 00-0194		Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)		
07 71 19 00-0195	EA	Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	125.70	3.77
07 71 19 00-0196	EA	Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	136.20	3.77
07 71 19 00-0197	EA	Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	140.79	3.77
07 71 19 00-0198		Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)		
07 71 19 00-0199	EA	Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	99.83	3.77
07 71 19 00-0200	EA	Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	105.06	3.77
07 71 19 00-0201	EA	Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems	107.34	3.77
07 71 19 00-0202		Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0203		0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)		
07 71 19 00-0204	LF	3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	23.19	2.69
07 71 19 00-0205	LF	>5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	26.22	2.79
07 71 19 00-0206	LF	>7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	27.82	2.90
07 71 19 00-0207		0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)		
07 71 19 00-0208	LF	3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	24.36	2.69
07 71 19 00-0209	LF	>5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	27.72	2.79
07 71 19 00-0210	LF	>7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	29.50	2.90
07 71 19 00-0211		Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0202)		
07 71 19 00-0212		Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0213	EA	Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	155.25	3.77
07 71 19 00-0214	EA	Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	168.37	3.77
07 71 19 00-0215	EA	Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	174.11	3.77
07 71 19 00-0216		Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0217	EA	Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	122.90	3.77
07 71 19 00-0218	EA	Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	129.44	3.77
07 71 19 00-0219	EA	Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems	132.30	3.77
07 71 23		Manufactured Gutters and Downspouts (07 71)		
		Note: Includes all necessary support straps.		
07 71 23 00-0001		Aluminum Gutters And Downspouts (07 71 23)		
07 71 23 00-0002		Aluminum Gutters (07 71 23 00-0001)		
		Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0003		K-Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0004	LF	5", 0.027" Thick, K-Style Aluminum Gutter	11.02	5.19
		For Up To 100', Add	2.38	
		For >100' To 250', Add	0.98	
		For >1,000', Deduct	-0.86	
		For Kynar 500® Finish, Add	1.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0005 LF 6", 0.027" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	12.11 2.56 1.05 -0.90 1.41	5.47
07 71 23 00-0006 LF 5", 0.032" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	11.37 2.42 1.00 -0.86 1.27	5.19
07 71 23 00-0007 LF 6", 0.032" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	12.57 2.60 1.08 -0.90 1.62	5.47
07 71 23 00-0008 LF 7", 0.032" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	21.31 3.58 1.55 -0.97 5.24	5.74
07 71 23 00-0009 LF 8", 0.032" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	23.37 3.93 1.70 -1.07 5.72	6.45
07 71 23 00-0010 LF 8", 0.040" Thick, K-Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	25.83 4.18 1.82 -1.07 6.83	6.45
07 71 23 00-0011 Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012 LF 5", 0.027" Thick, Half Round Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	18.13 3.10 1.33 -0.86 4.31	5.19
07 71 23 00-0013 LF 6", 0.032" Thick, Half Round Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	21.44 3.49 1.52 -0.90 5.61	5.47
07 71 23 00-0014 Box Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0015 LF 6", 0.027" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	19.54 3.55 1.51 -1.07 4.00	6.45
07 71 23 00-0016 LF 6", 0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	19.58 3.56 1.51 -1.07 4.02	6.45
07 71 23 00-0017 LF 7", 0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	22.48 3.95 1.69 -1.14 5.01	6.87
07 71 23 00-0018 LF 8", 0.032" Thick, Box Style Aluminum Gutter <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	25.17 4.33 1.86 -1.21 5.90	7.29
07 71 23 00-0019 Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020 K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021 EA 5", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	3.67 0.39	
07 71 23 00-0022 EA 6", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	4.36 0.70	
07 71 23 00-0023 EA 7", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	8.60 2.61	
07 71 23 00-0024 EA 8", K-Style Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	9.90 3.19	
07 71 23 00-0025 Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026 EA 5", Half Round Aluminum Gutter End Cap <i>For Kynar 500® Finish, Add</i>	5.45 1.19	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0027	EA		6", Half Round Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	8.02 2.34	
07 71 23 00-0028			Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029	EA		6", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	9.31 2.93	
07 71 23 00-0030	EA		7", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	10.06 3.26	
07 71 23 00-0031	EA		8", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	11.68 3.99	
07 71 23 00-0032			Aluminum Gutter Miters (07 71 23 00-0001) Note: Inside or outside miters.		
07 71 23 00-0033			K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034	EA		5", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	20.94 3.05	
07 71 23 00-0035	EA		6", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	26.87 5.28	
07 71 23 00-0036	EA		7", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	72.58 25.41	
07 71 23 00-0037	EA		8", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	78.71 27.66	
07 71 23 00-0038			Half Round, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0039	EA		5", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	33.38 8.65	
07 71 23 00-0040	EA		6", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	50.54 15.93	
07 71 23 00-0041			Box Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0042	EA		6", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	59.39 19.91	
07 71 23 00-0043	EA		7", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	86.70 31.76	
07 71 23 00-0044	EA		8", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	94.08 34.58	
07 71 23 00-0045			Aluminum Gutter Wire Strainers (07 71 23 00-0001)		
07 71 23 00-0046	EA		3" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	14.73 3.34 1.04 2.15 3.12	3.50
07 71 23 00-0047	EA		4" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	20.99 6.16 1.92 3.97 5.75	3.50
07 71 23 00-0048			Aluminum Downspouts (07 71 23 00-0001) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0049			Round Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0050	LF		3" Diameter, 0.019" Thick, Round Aluminum Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	7.02 1.25 0.53 -0.36 1.52 0.47 0.98 1.42	3.36
07 71 23 00-0051	LF		4" Diameter, 0.019" Thick, Round Aluminum Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 0.024" Thick, Add</i> <i>For 0.027" Thick, Add</i> <i>For 0.031" Thick, Add</i>	7.81 1.33 0.57 -0.36 1.88 0.58 1.21 1.75	3.36
07 71 23 00-0052			Rectangular Aluminum Downspouts (07 71 23 00-0048)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0053 LF 2" x 3", 0.019" Thick, Rectangular Aluminum Downspout.....	5.37	3.36
For Up To 100', Add	1.08	
For >100 To 250', Add	0.45	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	0.78	
For 0.024" Thick, Add	0.24	
For 0.027" Thick, Add	0.50	
For 0.031" Thick, Add	0.73	
07 71 23 00-0054 LF 3" x 4", 0.019" Thick, Rectangular Aluminum Downspout.....	6.38	3.36
For Up To 100', Add	1.18	
For >100 To 250', Add	0.50	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	1.23	
For 0.024" Thick, Add	0.38	
For 0.027" Thick, Add	0.79	
For 0.031" Thick, Add	1.15	
07 71 23 00-0055 LF 4" x 5", 0.019" Thick, Rectangular Aluminum Downspout.....	10.63	3.36
For Up To 100', Add	1.61	
For >100 To 250', Add	0.71	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	3.15	
For 0.024" Thick, Add	0.98	
For 0.027" Thick, Add	2.03	
For 0.031" Thick, Add	2.94	
07 71 23 00-0056 Aluminum Devices (07 71 23 00-0001)		
07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet	184.42	24.19
For Kynar 500® Finish, Add	46.70	
07 71 23 00-0058 EA Aluminum Leader/Conductor Head.....	200.83	26.88
For Kynar 500® Finish, Add	66.18	
07 71 23 00-0059 Copper Gutters And Downspouts (07 71 23)		
07 71 23 00-0060 Copper Gutters (07 71 23 00-0059)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0061 K-Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter.....	18.99	4.91
For Up To 100', Add	3.12	
For >100' To 250', Add	1.36	
For >1,000', Deduct	-0.81	
07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter.....	26.19	5.19
For Up To 100', Add	3.90	
For >100' To 250', Add	1.74	
For >1,000', Deduct	-0.86	
07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter.....	30.95	5.47
For Up To 100', Add	4.44	
For >100' To 250', Add	2.00	
For >1,000', Deduct	-0.90	
07 71 23 00-0065 LF 5", 20 Ounce, K-Style Copper Gutter.....	32.54	5.19
For Up To 100', Add	4.54	
For >100' To 250', Add	2.05	
For >1,000', Deduct	-0.86	
07 71 23 00-0066 LF 6", 20 Ounce, K-Style Copper Gutter.....	39.94	5.47
For Up To 100', Add	5.34	
For >100' To 250', Add	2.45	
For >1,000', Deduct	-0.90	
07 71 23 00-0067 LF 7", 20 Ounce, K-Style Copper Gutter.....	46.36	5.74
For Up To 100', Add	6.09	
For >100' To 250', Add	2.80	
For >1,000', Deduct	-0.97	
07 71 23 00-0068 LF 8", 20 Ounce, K-Style Copper Gutter.....	51.52	6.45
For Up To 100', Add	6.75	
For >100' To 250', Add	3.11	
For >1,000', Deduct	-1.07	
07 71 23 00-0069 Half Round Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0070 LF 5", 16 Ounce, Half Round Copper Gutter	22.89	5.19
For Up To 100', Add	3.57	
For >100' To 250', Add	1.57	
For >1,000', Deduct	-0.86	
07 71 23 00-0071 LF 6", 16 Ounce, Half Round Copper Gutter	28.49	5.47
For Up To 100', Add	4.19	
For >100' To 250', Add	1.87	
For >1,000', Deduct	-0.90	
07 71 23 00-0072 LF 7", 16 Ounce, Half Round Copper Gutter	46.42	5.74
For Up To 100', Add	6.09	
For >100' To 250', Add	2.80	
For >1,000', Deduct	-0.97	
07 71 23 00-0073 LF 5", 20 Ounce, Half Round Copper Gutter	26.36	5.19
For Up To 100', Add	3.92	
For >100' To 250', Add	1.75	
For >1,000', Deduct	-0.86	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0074	LF	6", 20 Ounce, Half Round Copper Gutter.....	32.17	5.47	
		<i>For Up To 100', Add</i>	4.56		
		<i>For >100' To 250', Add</i>	2.06		
		<i>For >1,000', Deduct</i>	-0.90		
07 71 23 00-0075	LF	7", 20 Ounce, Half Round Copper Gutter.....	48.67	5.74	
		<i>For Up To 100', Add</i>	6.32		
		<i>For >100' To 250', Add</i>	2.92		
		<i>For >1,000', Deduct</i>	-0.97		
07 71 23 00-0076	LF	8", 20 Ounce, Half Round Copper Gutter.....	55.21	6.45	
		<i>For Up To 100', Add</i>	7.12		
		<i>For >100' To 250', Add</i>	3.29		
		<i>For >1,000', Deduct</i>	-1.07		
07 71 23 00-0077		Box Style Copper Gutters (07 71 23 00-0060)			
07 71 23 00-0078	LF	5", 16 Ounce, Box Style Copper Gutter	26.25	5.88	
		<i>For Up To 100', Add</i>	4.10		
		<i>For >100' To 250', Add</i>	1.80		
		<i>For >1,000', Deduct</i>	-0.98		
07 71 23 00-0079	LF	6", 16 Ounce, Box Style Copper Gutter	28.21	6.45	
		<i>For Up To 100', Add</i>	4.42		
		<i>For >100' To 250', Add</i>	1.94		
		<i>For >1,000', Deduct</i>	-1.07		
07 71 23 00-0080	LF	7", 16 Ounce, Box Style Copper Gutter	33.82	6.87	
		<i>For Up To 100', Add</i>	5.08		
		<i>For >100' To 250', Add</i>	2.26		
		<i>For >1,000', Deduct</i>	-1.14		
07 71 23 00-0081	LF	8", 16 Ounce, Box Style Copper Gutter	34.66	7.29	
		<i>For Up To 100', Add</i>	5.28		
		<i>For >100' To 250', Add</i>	2.34		
		<i>For >1,000', Deduct</i>	-1.21		
07 71 23 00-0082	LF	5", 20 Ounce, Box Style Copper Gutter	29.63	5.88	
		<i>For Up To 100', Add</i>	4.44		
		<i>For >100' To 250', Add</i>	1.97		
		<i>For >1,000', Deduct</i>	-0.98		
07 71 23 00-0083	LF	6", 20 Ounce, Box Style Copper Gutter	31.60	6.45	
		<i>For Up To 100', Add</i>	4.76		
		<i>For >100' To 250', Add</i>	2.11		
		<i>For >1,000', Deduct</i>	-1.07		
07 71 23 00-0084	LF	7", 20 Ounce, Box Style Copper Gutter	37.20	6.87	
		<i>For Up To 100', Add</i>	5.42		
		<i>For >100' To 250', Add</i>	2.43		
		<i>For >1,000', Deduct</i>	-1.14		
07 71 23 00-0085	LF	8", 20 Ounce, Box Style Copper Gutter	38.05	7.29	
		<i>For Up To 100', Add</i>	5.61		
		<i>For >100' To 250', Add</i>	2.51		
		<i>For >1,000', Deduct</i>	-1.21		
07 71 23 00-0086		Copper Gutter End Caps (07 71 23 00-0059)			
07 71 23 00-0087		K-Style, Copper Gutter End Caps (07 71 23 00-0086)			
07 71 23 00-0088	EA	4", K-Style Copper Gutter End Cap	6.55		
07 71 23 00-0089	EA	5", K-Style Copper Gutter End Cap	6.97		
07 71 23 00-0090	EA	6", K-Style Copper Gutter End Cap	7.38		
07 71 23 00-0091	EA	7", K-Style Copper Gutter End Cap	18.46		
07 71 23 00-0092	EA	8", K-Style Copper Gutter End Cap	22.35		
07 71 23 00-0093		Half Round, Copper Gutter End Caps (07 71 23 00-0086)			
07 71 23 00-0094	EA	4", Half Round Copper Gutter End Cap	7.78		
07 71 23 00-0095	EA	5", Half Round Copper Gutter End Cap	8.66		
07 71 23 00-0096	EA	6", Half Round Copper Gutter End Cap	12.71		
07 71 23 00-0097	EA	7", Half Round Copper Gutter End Cap	36.85		
07 71 23 00-0098	EA	8", Half Round Copper Gutter End Cap	43.40		
07 71 23 00-0099		Box Style, Copper Gutter End Caps (07 71 23 00-0086)			
07 71 23 00-0100	EA	5", Box Style Copper Gutter End Cap	14.31		
07 71 23 00-0101	EA	6", Box Style Copper Gutter End Cap	14.99		
07 71 23 00-0102	EA	7", Box Style Copper Gutter End Cap	15.66		
07 71 23 00-0103	EA	8", Box Style Copper Gutter End Cap	17.02		
07 71 23 00-0104		Copper Gutter Miters (07 71 23 00-0059)			
		Note: Inside or outside miters.			
07 71 23 00-0105		K-Style, Copper Gutter Miters (07 71 23 00-0104)			
07 71 23 00-0106	EA	4", K-Style Copper Gutter Miter	40.93		
07 71 23 00-0107	EA	5", K-Style Copper Gutter Miter	46.19		
07 71 23 00-0108	EA	6", K-Style Copper Gutter Miter	65.18		
07 71 23 00-0109	EA	7", K-Style Copper Gutter Miter	90.89		
07 71 23 00-0110	EA	8", K-Style Copper Gutter Miter	106.22		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0111				Half Round, Copper Gutter Miters (07 71 23 00-0104)		
	EA			4", Half Round Copper Gutter Miter	62.09	
	EA			5", Half Round Copper Gutter Miter	57.91	
	EA			6", Half Round Copper Gutter Miter	82.14	
	EA			7", Half Round Copper Gutter Miter	97.48	
	EA			8", Half Round Copper Gutter Miter	114.74	
07 71 23 00-0117				Box Style, Copper Gutter Miters (07 71 23 00-0104)		
	EA			5", 16 Ounce Box Style Copper Gutter Miter	68.21	
	EA			6", 16 Ounce Box Style Copper Gutter Miter	70.54	
	EA			7", 16 Ounce Box Style Copper Gutter Miter	76.93	
	EA			8", 16 Ounce Box Style Copper Gutter Miter	78.67	
	EA			5", 20 Ounce Box Style Copper Gutter Miter	74.97	
	EA			6", 20 Ounce Box Style Copper Gutter Miter	77.31	
	EA			7", 20 Ounce Box Style Copper Gutter Miter	83.70	
	EA			8", 20 Ounce Box Style Copper Gutter Miter	91.58	
07 71 23 00-0126				Copper Gutter Wire Strainers (07 71 23 00-0059)		
	EA			2" Diameter, Round Copper Wire Strainer	18.54	3.50
	EA			3" Diameter, Round Copper Wire Strainer	22.24	3.50
	EA			4" Diameter, Round Copper Wire Strainer	34.30	3.50
	EA			5" Diameter, Round Copper Wire Strainer	44.80	3.50
	EA			6" Diameter, Round Copper Wire Strainer	53.60	3.50
07 71 23 00-0132				Copper Downspouts (07 71 23 00-0059)		
				Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0133				Round Copper Downspouts (07 71 23 00-0132)		
	LF			2" Diameter, 16 Ounce, Round Copper Downspout	25.09	3.36
				For Up To 100', Add	3.06	
				For >100 To 250', Add	1.44	
				For >1,000', Deduct	-0.36	
	LF			3" Diameter, 16 Ounce, Round Copper Downspout	17.77	3.36
				For Up To 100', Add	2.32	
				For >100 To 250', Add	1.07	
				For >1,000', Deduct	-0.36	
	LF			4" Diameter, 16 Ounce, Round Copper Downspout	22.15	3.36
				For Up To 100', Add	2.76	
				For >100 To 250', Add	1.29	
				For >1,000', Deduct	-0.36	
	LF			5" Diameter, 16 Ounce, Round Copper Downspout	34.81	3.36
				For Up To 100', Add	4.03	
				For >100 To 250', Add	1.92	
				For >1,000', Deduct	-0.36	
	LF			6" Diameter, 16 Ounce, Round Copper Downspout	44.49	3.36
				For Up To 100', Add	5.00	
				For >100 To 250', Add	2.41	
				For >1,000', Deduct	-0.36	
	LF			3" Diameter, 20 Ounce, Round Copper Downspout	23.70	3.36
				For Up To 100', Add	2.92	
				For >100 To 250', Add	1.37	
				For >1,000', Deduct	-0.36	
	LF			4" Diameter, 20 Ounce, Round Copper Downspout	30.46	3.36
				For Up To 100', Add	3.59	
				For >100 To 250', Add	1.71	
				For >1,000', Deduct	-0.36	
	LF			5" Diameter, 20 Ounce, Round Copper Downspout	45.80	3.36
				For Up To 100', Add	5.13	
				For >100 To 250', Add	2.47	
				For >1,000', Deduct	-0.36	
07 71 23 00-0142				Square Copper Downspouts (07 71 23 00-0132)		
	LF			3" Diameter, 16 Ounce, Square Copper Downspout	12.60	3.36
				For Up To 100', Add	1.81	
				For >100 To 250', Add	0.81	
				For >1,000', Deduct	-0.36	
	LF			4" Diameter, 16 Ounce, Square Copper Downspout	15.51	3.36
				For Up To 100', Add	2.10	
				For >100 To 250', Add	0.96	
				For >1,000', Deduct	-0.36	
	LF			5" Diameter, 16 Ounce, Square Copper Downspout	21.79	3.36
				For Up To 100', Add	2.73	
				For >100 To 250', Add	1.27	
				For >1,000', Deduct	-0.36	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0146 LF 3" Diameter, 20 Ounce, Square Copper Downspout	14.40	3.36
For Up To 100', Add	1.99	
For >100 To 250', Add	0.90	
For >1,000', Deduct	-0.36	
07 71 23 00-0147 LF 4" Diameter, 20 Ounce, Square Copper Downspout	18.03	3.36
For Up To 100', Add	2.35	
For >100 To 250', Add	1.08	
For >1,000', Deduct	-0.36	
07 71 23 00-0148 LF 5" Diameter, 20 Ounce, Square Copper Downspout	25.48	3.36
For Up To 100', Add	3.09	
For >100 To 250', Add	1.46	
For >1,000', Deduct	-0.36	
07 71 23 00-0149 Rectangular Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0150 LF 2" x 3", 16 Ounce, Rectangular Copper Downspout	18.22	3.36
For Up To 100', Add	2.37	
For >100 To 250', Add	1.09	
For >1,000', Deduct	-0.36	
07 71 23 00-0151 LF 3" x 4", 16 Ounce, Rectangular Copper Downspout	22.79	3.36
For Up To 100', Add	2.83	
For >100 To 250', Add	1.32	
For >1,000', Deduct	-0.36	
07 71 23 00-0152 LF 4" x 5", 16 Ounce, Rectangular Copper Downspout	32.01	3.36
For Up To 100', Add	3.75	
For >100 To 250', Add	1.78	
For >1,000', Deduct	-0.36	
07 71 23 00-0153 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout	21.06	3.36
For Up To 100', Add	2.65	
For >100 To 250', Add	1.24	
For >1,000', Deduct	-0.36	
07 71 23 00-0154 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout	26.73	3.36
For Up To 100', Add	3.22	
For >100 To 250', Add	1.52	
For >1,000', Deduct	-0.36	
07 71 23 00-0155 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout	37.95	3.36
For Up To 100', Add	4.34	
For >100 To 250', Add	2.08	
For >1,000', Deduct	-0.36	
07 71 23 00-0156 Copper Devices And Accessories (07 71 23 00-0059)		
07 71 23 00-0157 EA Thru-Wall Copper Scupper Outlet.....	202.74	24.19
07 71 23 00-0158 EA Copper Leader/Conductor Head.....	286.21	26.88
07 71 23 00-0159 EA Copper Eave Box.....	137.01	21.02
07 71 23 00-0160 Galvanized Steel Gutters And Downspouts (07 71 23)		
07 71 23 00-0161 Galvanized Steel Gutters (07 71 23 00-0160)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0162 K-Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0163 LF 5", 26 Gauge, K-Style Galvanized Steel Gutter	12.77	5.19
For Up To 100', Add	2.56	
For >100' To 250', Add	1.07	
For >1,000', Deduct	-0.86	
For Kynar 500® Finish, Add	1.90	
For 24 Gauge, Add	1.18	
For 22 Gauge, Add	2.32	
07 71 23 00-0164 LF 6", 26 Gauge, K-Style Galvanized Steel Gutter	14.48	5.47
For Up To 100', Add	2.79	
For >100' To 250', Add	1.17	
For >1,000', Deduct	-0.90	
For Kynar 500® Finish, Add	2.48	
For 24 Gauge, Add	1.54	
For 22 Gauge, Add	3.03	
07 71 23 00-0165 LF 7", 26 Gauge, K-Style Galvanized Steel Gutter	26.61	5.74
For Up To 100', Add	4.11	
For >100' To 250', Add	1.81	
For >1,000', Deduct	-0.97	
For Kynar 500® Finish, Add	7.62	
For 24 Gauge, Add	4.74	
For 22 Gauge, Add	9.32	
07 71 23 00-0166 LF 8", 26 Gauge, K-Style Galvanized Steel Gutter	28.24	6.45
For Up To 100', Add	4.42	
For >100' To 250', Add	1.94	
For >1,000', Deduct	-1.07	
For Kynar 500® Finish, Add	7.92	
For 24 Gauge, Add	4.93	
For 22 Gauge, Add	9.67	
07 71 23 00-0167 Half Round Galvanized Steel Gutters (07 71 23 00-0161)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0168 LF 5", 26 Gauge, Half Round Galvanized Steel Gutter.....	17.13	5.19
For Up To 100', Add	3.00	
For >100' To 250', Add	1.28	
For >1,000', Deduct	-0.86	
For Kynar 500® Finish, Add	3.86	
For 24 Gauge, Add	2.40	
For 22 Gauge, Add	4.72	
07 71 23 00-0169 LF 6", 26 Gauge, Half Round Galvanized Steel Gutter.....	20.90	5.47
For Up To 100', Add	3.44	
For >100' To 250', Add	1.49	
For >1,000', Deduct	-0.90	
For Kynar 500® Finish, Add	5.37	
For 24 Gauge, Add	3.34	
For 22 Gauge, Add	6.56	
07 71 23 00-0170 LF 7", 26 Gauge, Half Round Galvanized Steel Gutter.....	47.66	5.74
For Up To 100', Add	6.22	
For >100' To 250', Add	2.87	
For >1,000', Deduct	-0.97	
For Kynar 500® Finish, Add	17.10	
For 24 Gauge, Add	10.64	
For 22 Gauge, Add	20.89	
07 71 23 00-0171 LF 8", 26 Gauge, Half Round Galvanized Steel Gutter.....	50.97	6.45
For Up To 100', Add	6.69	
For >100' To 250', Add	3.08	
For >1,000', Deduct	-1.07	
For Kynar 500® Finish, Add	18.14	
For 24 Gauge, Add	11.29	
For 22 Gauge, Add	22.18	
07 71 23 00-0172 Box Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0173 LF 5", 24 Gauge, Box Style Galvanized Steel Gutter.....	20.34	5.88
For Up To 100', Add	3.51	
For >100' To 250', Add	1.51	
For >1,000', Deduct	-0.98	
For Kynar 500® Finish, Add	4.73	
For 22 Gauge, Add	2.31	
07 71 23 00-0174 LF 6", 24 Gauge, Box Style Galvanized Steel Gutter.....	23.53	6.45
For Up To 100', Add	3.95	
For >100' To 250', Add	1.71	
For >1,000', Deduct	-1.07	
For Kynar 500® Finish, Add	5.80	
For 22 Gauge, Add	2.83	
07 71 23 00-0175 LF 7", 24 Gauge, Box Style Galvanized Steel Gutter.....	28.29	5.74
For Up To 100', Add	4.28	
For >100' To 250', Add	1.90	
For >1,000', Deduct	-0.97	
For Kynar 500® Finish, Add	8.38	
For 22 Gauge, Add	4.10	
07 71 23 00-0176 LF 8", 24 Gauge, Box Style Galvanized Steel Gutter.....	31.93	7.29
For Up To 100', Add	5.00	
For >100' To 250', Add	2.20	
For >1,000', Deduct	-1.21	
For Kynar 500® Finish, Add	8.94	
For 22 Gauge, Add	4.37	
07 71 23 00-0177 Galvanized Steel Gutter End Caps (07 71 23 00-0160)		
07 71 23 00-0178 K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0179 EA 5", K-Style Galvanized Steel Gutter End Cap.....	5.34	
For Kynar 500® Finish, Add	1.14	
07 71 23 00-0180 EA 6", K-Style Galvanized Steel Gutter End Cap.....	6.00	
For Kynar 500® Finish, Add	1.44	
07 71 23 00-0181 EA 7", K-Style Galvanized Steel Gutter End Cap.....	11.90	
For Kynar 500® Finish, Add	4.09	
07 71 23 00-0182 EA 8", K-Style Galvanized Steel Gutter End Cap.....	16.84	
For Kynar 500® Finish, Add	6.31	
07 71 23 00-0183 Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0184 EA 5", Half Round Galvanized Steel Gutter End Cap.....	6.59	
For Kynar 500® Finish, Add	1.70	
07 71 23 00-0185 EA 6", Half Round Galvanized Steel Gutter End Cap.....	7.44	
For Kynar 500® Finish, Add	2.08	
07 71 23 00-0186 EA 7", Half Round Galvanized Steel Gutter End Cap.....	13.03	
For Kynar 500® Finish, Add	4.60	
07 71 23 00-0187 EA 8", Half Round Galvanized Steel Gutter End Cap.....	17.28	
For Kynar 500® Finish, Add	6.51	
07 71 23 00-0188 Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0189 EA 5", Box Style Galvanized Steel Gutter End Cap.....	11.06	
For Kynar 500® Finish, Add	3.71	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0190	EA		6", Box Style Galvanized Steel Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	13.12 4.64	
07 71 23 00-0191	EA		7", Box Style Galvanized Steel Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	14.58 5.30	
07 71 23 00-0192	EA		8", Box Style Galvanized Steel Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	19.21 7.38	
07 71 23 00-0193			Galvanized Steel Gutter Miters (07 71 23 00-0160) Note: Inside or outside miters.		
07 71 23 00-0194			K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0195	EA		5", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	31.29 7.71	
07 71 23 00-0196	EA		6", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	47.91 14.75	
07 71 23 00-0197	EA		7", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	73.76 25.94	
07 71 23 00-0198	EA		8", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	82.60 29.41	
07 71 23 00-0199			Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0200	EA		5", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	40.97 12.06	
07 71 23 00-0201	EA		6", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	45.77 13.78	
07 71 23 00-0202	EA		7", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	120.29 46.88	
07 71 23 00-0203	EA		8", Half Round Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	127.20 49.48	
07 71 23 00-0204			Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0205	EA		5", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	39.04 11.20	
07 71 23 00-0206	EA		6", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	60.73 20.52	
07 71 23 00-0207	EA		7", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	77.62 27.68	
07 71 23 00-0208	EA		8", Box Style Galvanized Steel Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	82.60 29.41	
07 71 23 00-0209			Galvanized Steel Gutter Wire Strainers (07 71 23 00-0160)		
07 71 23 00-0210	EA		3" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	13.22 2.66	3.50
07 71 23 00-0211	EA		4" Diameter, Round Galvanized Steel Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	18.26 4.93	3.50
07 71 23 00-0212			Galvanized Steel Downspouts (07 71 23 00-0160) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0213			Round Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0214	LF		3" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	6.72 1.22 0.52 -0.36 1.39 0.86 1.69	3.36
07 71 23 00-0215	LF		4" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	8.04 1.35 0.58 -0.36 1.98 1.23 2.42	3.36
07 71 23 00-0216	LF		5" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	10.48 1.59 0.71 -0.36 3.08 1.92 3.76	3.36
07 71 23 00-0217	LF		6" Diameter, 26 Gauge, Round Galvanized Steel Downspout..... <i>For Up To 100', Add</i> <i>For >100 To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i> <i>For 24 Gauge, Add</i> <i>For 22 Gauge, Add</i>	21.73 2.72 1.27 -0.36 8.14 5.07 9.95	3.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0218 Square Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0219 LF 4" x 4", 26 Gauge, Square Galvanized Steel Downspout	7.46	3.36
For Up To 100', Add	1.29	
For >100 To 250', Add	0.56	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	1.72	
For 24 Gauge, Add	1.07	
For 22 Gauge, Add	2.10	
07 71 23 00-0220 LF 5" x 5", 26 Gauge, Square Galvanized Steel Downspout	9.19	3.36
For Up To 100', Add	1.47	
For >100 To 250', Add	0.64	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	2.50	
For 24 Gauge, Add	1.55	
For 22 Gauge, Add	3.05	
07 71 23 00-0221 Rectangular Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0222 LF 2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout.....	6.82	3.36
For Up To 100', Add	1.23	
For >100 To 250', Add	0.52	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	1.43	
For 24 Gauge, Add	0.89	
For 22 Gauge, Add	1.75	
07 71 23 00-0223 LF 3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....	8.34	3.36
For Up To 100', Add	1.38	
For >100 To 250', Add	0.60	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	2.12	
For 24 Gauge, Add	1.32	
For 22 Gauge, Add	2.59	
07 71 23 00-0224 LF 4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....	14.39	3.36
For Up To 100', Add	1.99	
For >100 To 250', Add	0.90	
For >1,000', Deduct	-0.36	
For Kynar 500® Finish, Add	4.84	
For 24 Gauge, Add	3.01	
For 22 Gauge, Add	5.91	
07 71 23 00-0225 Galvanized Steel Devices (07 71 23 00-0160)		
07 71 23 00-0226 EA Galvanized Steel Leader/Conductor Head	250.56	26.88
For Kynar 500® Finish, Add	88.56	
07 71 23 00-0227 EA Thru-Wall Galvanized Steel Scupper Outlet	141.62	24.19
For Kynar 500® Finish, Add	27.44	
07 71 23 00-0228 Stainless Steel Gutters And Downspouts (07 71 23)		
Note: AISI type 304 stainless steel.		
07 71 23 00-0229 Stainless Steel Gutters (07 71 23 00-0228)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0230 K-Style, Stainless Steel Gutters (07 71 23 00-0229)		
07 71 23 00-0231 LF 5", 26 Gauge, K-Style Stainless Steel Gutter.....	28.15	5.19
For Up To 100', Add	4.10	
For >100' To 250', Add	1.84	
For >1,000', Deduct	-0.86	
For 316 Stainless Steel, Add	7.45	
For 24 Gauge, Add	6.47	
For 22 Gauge, Add	12.94	
For 20 Gauge, Add	19.40	
07 71 23 00-0232 LF 6", 26 Gauge, K-Style Stainless Steel Gutter.....	33.47	5.47
For Up To 100', Add	4.69	
For >100' To 250', Add	2.12	
For >1,000', Deduct	-0.90	
For 316 Stainless Steel, Add	9.31	
For 24 Gauge, Add	8.09	
For 22 Gauge, Add	16.17	
For 20 Gauge, Add	24.26	
07 71 23 00-0233 Half Round, Stainless Steel Gutters (07 71 23 00-0229)		
07 71 23 00-0234 LF 5", 26 Gauge, Half Round Stainless Steel Gutter	38.22	5.19
For Up To 100', Add	5.10	
For >100' To 250', Add	2.34	
For >1,000', Deduct	-0.86	
For 316 Stainless Steel, Add	11.27	
For 24 Gauge, Add	9.79	
For 22 Gauge, Add	19.58	
For 20 Gauge, Add	29.37	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71	23 00-0235	LF	6", 26 Gauge, Half Round Stainless Steel Gutter	46.00	5.47
			<i>For Up To 100', Add</i>	5.95	
			<i>For >100' To 250', Add</i>	2.75	
			<i>For >1,000', Deduct</i>	-0.90	
			<i>For 316 Stainless Steel, Add</i>	14.07	
			<i>For 24 Gauge, Add</i>	12.22	
			<i>For 22 Gauge, Add</i>	24.44	
			<i>For 20 Gauge, Add</i>	36.66	
07 71	23 00-0236		Box Style, Stainless Steel Gutters (07 71 23 00-0229)		
07 71	23 00-0237	LF	5", 26 Gauge, Box Style Stainless Steel Gutter	37.76	5.88
			<i>For Up To 100', Add</i>	5.25	
			<i>For >100' To 250', Add</i>	2.38	
			<i>For >1,000', Deduct</i>	-0.98	
			<i>For 316 Stainless Steel, Add</i>	10.62	
			<i>For 24 Gauge, Add</i>	9.22	
			<i>For 22 Gauge, Add</i>	18.44	
			<i>For 20 Gauge, Add</i>	27.66	
			<i>For 18 Gauge, Add</i>	46.38	
			<i>For Seamless Gutter, Add</i>	0.08	
07 71	23 00-0238	LF	6", 26 Gauge, Box Style Stainless Steel Gutter	45.76	6.45
			<i>For Up To 100', Add</i>	6.17	
			<i>For >100' To 250', Add</i>	2.82	
			<i>For >1,000', Deduct</i>	-1.07	
			<i>For 316 Stainless Steel, Add</i>	13.34	
			<i>For 24 Gauge, Add</i>	11.59	
			<i>For 22 Gauge, Add</i>	23.17	
			<i>For 20 Gauge, Add</i>	34.76	
			<i>For 18 Gauge, Add</i>	58.28	
			<i>For Seamless Gutter, Add</i>	-0.16	
07 71	23 00-0239	LF	7", 26 Gauge, Box Style Stainless Steel Gutter	53.78	6.87
			<i>For Up To 100', Add</i>	7.08	
			<i>For >100' To 250', Add</i>	3.26	
			<i>For >1,000', Deduct</i>	-1.14	
			<i>For 316 Stainless Steel, Add</i>	16.12	
			<i>For 24 Gauge, Add</i>	14.00	
			<i>For 22 Gauge, Add</i>	28.00	
			<i>For 20 Gauge, Add</i>	42.01	
			<i>For 18 Gauge, Add</i>	70.43	
			<i>For Seamless Gutter, Add</i>	-0.42	
07 71	23 00-0240	LF	8", 26 Gauge, Box Style Stainless Steel Gutter	58.41	7.29
			<i>For Up To 100', Add</i>	7.65	
			<i>For >100' To 250', Add</i>	3.52	
			<i>For >1,000', Deduct</i>	-1.21	
			<i>For 316 Stainless Steel, Add</i>	17.61	
			<i>For 24 Gauge, Add</i>	15.30	
			<i>For 22 Gauge, Add</i>	30.59	
			<i>For 20 Gauge, Add</i>	45.89	
			<i>For 18 Gauge, Add</i>	76.94	
			<i>For Seamless Gutter, Add</i>	-0.51	
07 71	23 00-0241		Stainless Steel Gutter End Caps (07 71 23 00-0228)		
07 71	23 00-0242		K-Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71	23 00-0243	EA	5", K-Style Stainless Steel Gutter End Cap.....	8.94	
			<i>For 316 Stainless Steel, Add</i>	2.33	
07 71	23 00-0244	EA	6", K-Style Stainless Steel Gutter End Cap.....	10.17	
			<i>For 316 Stainless Steel, Add</i>	2.80	
07 71	23 00-0245		Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71	23 00-0246	EA	5", Half Round Stainless Steel Gutter End Cap	10.47	
			<i>For 316 Stainless Steel, Add</i>	2.91	
07 71	23 00-0247	EA	6", Half Round Stainless Steel Gutter End Cap	12.01	
			<i>For 316 Stainless Steel, Add</i>	3.50	
07 71	23 00-0248		Box Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71	23 00-0249	EA	5", Box Style Stainless Steel Gutter End Cap.....	11.16	
			<i>For 316 Stainless Steel, Add</i>	2.91	
07 71	23 00-0250	EA	6", Box Style Stainless Steel Gutter End Cap.....	12.70	
			<i>For 316 Stainless Steel, Add</i>	3.50	
07 71	23 00-0251	EA	7", Box Style Stainless Steel Gutter End Cap.....	13.20	
			<i>For 316 Stainless Steel, Add</i>	3.77	
07 71	23 00-0252	EA	8", Box Style Stainless Steel Gutter End Cap.....	15.96	
			<i>For 316 Stainless Steel, Add</i>	4.65	
07 71	23 00-0253		Stainless Steel Gutter Miters (07 71 23 00-0228)		
			Note: Inside or outside box miters.		
07 71	23 00-0254		K-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0255 EA 5", K-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	45.83 12.03	
07 71 23 00-0256 EA 6", K-Style Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	71.33 21.35	
07 71 23 00-0257 Half Round, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0258 EA 5", Half Round Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	107.13 35.33	
07 71 23 00-0259 EA 6", Half Round Stainless Steel Gutter Miter <i>For 316 Stainless Steel, Add</i>	130.55 43.86	
07 71 23 00-0260 Box-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0261 EA 5", Box-Style Stainless Steel Gutter Miter..... <i>For 316 Stainless Steel, Add</i>	52.17 14.44	
07 71 23 00-0262 EA 6", Box-Style Stainless Steel Gutter Miter..... <i>For 316 Stainless Steel, Add</i>	82.57 25.62	
07 71 23 00-0263 EA 7", Box-Style Stainless Steel Gutter Miter..... <i>For 316 Stainless Steel, Add</i>	94.79 29.89	
07 71 23 00-0264 EA 8", Box-Style Stainless Steel Gutter Miter..... <i>For 316 Stainless Steel, Add</i>	107.15 34.17	
07 71 23 00-0265 Stainless Steel Gutter Wire Strainers (07 71 23 00-0228)		
07 71 23 00-0266 EA 3" Diameter, Round Stainless Steel Wire Strainer	39.13	3.50
07 71 23 00-0267 EA 4" Diameter, Round Stainless Steel Wire Strainer	40.00	3.50
07 71 23 00-0268 Stainless Steel Downspouts (07 71 23 00-0228) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0269 Round Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0270 LF 3" Diameter, 26 Gauge, Round Stainless Steel Downspout	16.30	3.36
<i>For Up To 100', Add</i>	2.18	
<i>For >100 To 250', Add</i>	1.00	
<i>For >1,000', Deduct</i>	-0.36	
<i>For 316 Stainless Steel, Add</i>	4.81	
<i>For 24 Gauge, Add</i>	4.18	
<i>For 22 Gauge, Add</i>	8.36	
<i>For 20 Gauge, Add</i>	12.53	
07 71 23 00-0271 LF 4" Diameter, 26 Gauge, Round Stainless Steel Downspout	21.21	3.36
<i>For Up To 100', Add</i>	2.67	
<i>For >100 To 250', Add</i>	1.24	
<i>For >1,000', Deduct</i>	-0.36	
<i>For 316 Stainless Steel, Add</i>	6.68	
<i>For 24 Gauge, Add</i>	5.80	
<i>For 22 Gauge, Add</i>	11.60	
<i>For 20 Gauge, Add</i>	17.39	
07 71 23 00-0272 LF 5" Diameter, 26 Gauge, Round Stainless Steel Downspout	30.49	3.36
<i>For Up To 100', Add</i>	3.60	
<i>For >100 To 250', Add</i>	1.71	
<i>For >1,000', Deduct</i>	-0.36	
<i>For 316 Stainless Steel, Add</i>	10.20	
<i>For 24 Gauge, Add</i>	8.86	
<i>For 22 Gauge, Add</i>	17.72	
<i>For 20 Gauge, Add</i>	26.58	
07 71 23 00-0273 Rectangular Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0274 LF 2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout.....	16.66	3.36
<i>For Up To 100', Add</i>	2.21	
<i>For >100 To 250', Add</i>	1.02	
<i>For >1,000', Deduct</i>	-0.36	
<i>For 316 Stainless Steel, Add</i>	4.95	
<i>For 24 Gauge, Add</i>	4.30	
<i>For 22 Gauge, Add</i>	8.59	
<i>For 20 Gauge, Add</i>	12.89	
<i>For 18 Gauge, Add</i>	21.61	
07 71 23 00-0275 LF 3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout.....	21.95	3.36
<i>For Up To 100', Add</i>	2.74	
<i>For >100 To 250', Add</i>	1.28	
<i>For >1,000', Deduct</i>	-0.36	
<i>For 316 Stainless Steel, Add</i>	6.96	
<i>For 24 Gauge, Add</i>	6.04	
<i>For 22 Gauge, Add</i>	12.08	
<i>For 20 Gauge, Add</i>	18.13	
<i>For 18 Gauge, Add</i>	30.39	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0276 LF 4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout	28.13	3.36
For Up To 100', Add	3.36	
For >100 To 250', Add	1.59	
For >1,000', Deduct	-0.36	
For 316 Stainless Steel, Add	9.31	
For 24 Gauge, Add	8.08	
For 22 Gauge, Add	16.16	
For 20 Gauge, Add	24.25	
For 18 Gauge, Add	40.65	
07 71 23 00-0277 Stainless Steel Devices (07 71 23 00-0228)		
07 71 23 00-0278 EA Thru-Wall Stainless Steel Scupper Outlet	227.90	31.54
For 316 Stainless Steel, Add	46.66	
07 71 23 00-0279 EA Stainless Steel Leader/Conductor Head	345.60	31.54
For 316 Stainless Steel, Add	104.70	
07 71 23 00-0280 Vinyl Gutters And Downspouts (07 71 23)		
07 71 23 00-0281 Vinyl Gutters (07 71 23 00-0280)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0282 K-Style Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0283 LF 4", K-Style Vinyl Gutter	11.19	3.50
For Up To 100', Add	2.00	
For >100' To 250', Add	0.85	
For >1,000', Deduct	-0.58	
07 71 23 00-0284 LF 5", K-Style Vinyl Gutter	13.94	3.50
For Up To 100', Add	2.27	
For >100' To 250', Add	0.99	
For >1,000', Deduct	-0.58	
07 71 23 00-0285 Half Round Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0286 LF 4", Half Round Vinyl Gutter	11.50	3.50
For Up To 100', Add	2.03	
For >100' To 250', Add	0.87	
For >1,000', Deduct	-0.58	
07 71 23 00-0287 LF 5", Half Round Vinyl Gutter	12.00	3.50
For Up To 100', Add	2.08	
For >100' To 250', Add	0.89	
For >1,000', Deduct	-0.58	
07 71 23 00-0288 Vinyl Gutter End Caps (07 71 23 00-0280)		
07 71 23 00-0289 K-Style, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0290 EA 4", K-Style Vinyl Gutter End Cap	6.69	
07 71 23 00-0291 EA 5", K-Style Vinyl Gutter End Cap	8.97	
07 71 23 00-0292 Half Round, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0293 EA 4", Half Round Vinyl Gutter End Cap	7.53	
07 71 23 00-0294 EA 5", Half Round Vinyl Gutter End Cap	7.15	
07 71 23 00-0295 Vinyl Gutter Miters (07 71 23 00-0280)		
Note: Inside or outside miters.		
07 71 23 00-0296 K-Style, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0297 EA 4", K-Style Vinyl Gutter Miter	16.06	
07 71 23 00-0298 EA 5", K-Style Vinyl Gutter Miter	23.43	
07 71 23 00-0299 Half Round, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0300 EA 4", Half Round Vinyl Gutter Miter	16.06	
07 71 23 00-0301 EA 5", Half Round Vinyl Gutter Miter	17.33	
07 71 23 00-0302 Vinyl Downspouts (07 71 23 00-0280)		
Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0303 Round Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0304 LF 2-1/2" Diameter, Round Vinyl Downspout	7.29	3.36
For Up To 100', Add	1.28	
For >100 To 250', Add	0.55	
For >1,000', Deduct	-0.36	
07 71 23 00-0305 LF 3" Diameter, Round Vinyl Downspout	7.56	3.36
For Up To 100', Add	1.30	
For >100 To 250', Add	0.56	
For >1,000', Deduct	-0.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0306 Square Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0307 LF 2-1/2", Square Vinyl Downspout.....	7.18	3.36
For Up To 100', Add	1.26	
For >100 To 250', Add	0.54	
For >1,000', Deduct	-0.36	
07 71 23 00-0308 Rectangular Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0309 LF 2" x 3", Rectangular Vinyl Downspout	8.90	3.36
For Up To 100', Add	1.44	
For >100 To 250', Add	0.63	
For >1,000', Deduct	-0.36	
07 71 23 00-0310 Gutter And Downspout Boots (07 71 23)		
07 71 23 00-0311 Cast Iron Roof Drainage Downspout Boots (07 71 23 00-0310)		
07 71 23 00-0312 EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	272.48	5.05
07 71 23 00-0313 EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	354.87	5.05
07 71 23 00-0314 EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....	423.39	5.05
07 71 23 00-0315 Cast Iron Roof Drainage Downspout Boots With Cleanouts (07 71 23 00-0310)		
07 71 23 00-0316 EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	470.50	5.05
07 71 23 00-0317 EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	574.58	5.05
07 71 23 00-0318 EA 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	1,041.96	5.05
07 71 23 00-0319 Wall Mounted Downspout Covers With Hinged Perforated Cover (07 71 23)		
07 71 23 00-0320 EA 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....	958.54	35.01
For Polished Brass Finish (-PB), Add	88.85	
For Chrome Plated Finish (-CP), Add	133.28	
For Vandal Proof (-U), Add	44.43	
07 71 23 00-0321 EA 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....	981.88	46.68
For Polished Brass Finish (-PB), Add	88.85	
For Chrome Plated Finish (-CP), Add	133.28	
For Vandal Proof (-U), Add	44.43	
07 71 23 00-0322 EA 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....	1,052.53	57.07
For Polished Brass Finish (-PB), Add	93.84	
For Chrome Plated Finish (-CP), Add	140.76	
For Vandal Proof (-U), Add	46.92	
07 71 23 00-0323 EA 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....	1,127.67	72.05
For Polished Brass Finish (-PB), Add	98.36	
For Chrome Plated Finish (-CP), Add	147.54	
For Vandal Proof (-U), Add	49.18	
07 71 23 00-0324 EA 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10).....	1,218.30	88.77
For Polished Brass Finish (-PB), Add	104.08	
For Chrome Plated Finish (-CP), Add	156.12	
For Vandal Proof (-U), Add	52.04	
07 71 23 00-0325 EA 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12).....	1,351.84	123.92
For Polished Brass Finish (-PB), Add	110.40	
For Chrome Plated Finish (-CP), Add	165.60	
For Vandal Proof (-U), Add	55.20	
07 71 23 00-0326 EA 15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15).....	1,511.03	172.35
For Polished Brass Finish (-PB), Add	116.64	
For Chrome Plated Finish (-CP), Add	174.95	
For Vandal Proof (-U), Add	58.32	
07 71 23 00-0327 Wall Mounted Downspout Nozzle (07 71 23)		
07 71 23 00-0328 EA 3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03).....	261.83	35.01
For Nickel Bronze Finish (-NB), Add	134.27	
For Polished Bronze Finish (-PB), Add	105.50	
For Chrome Plated Finish (-CP), Add	170.71	
07 71 23 00-0329 EA 4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04).....	285.17	46.68
For Nickel Bronze Finish (-NB), Add	134.27	
For Polished Bronze Finish (-PB), Add	105.50	
For Chrome Plated Finish (-CP), Add	170.71	
07 71 23 00-0330 EA 6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06).....	569.13	57.07
For Nickel Bronze Finish (-NB), Add	136.50	
For Polished Bronze Finish (-PB), Add	77.35	
For Chrome Plated Finish (-CP), Add	200.20	
07 71 23 00-0331 EA 8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08).....	834.79	72.05
For Nickel Bronze Finish (-NB), Add	117.42	
For Polished Bronze Finish (-PB), Add	89.79	
For Chrome Plated Finish (-CP), Add	200.30	
07 71 23 00-0332 EA 10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10).....	1,074.22	88.77
For Nickel Bronze Finish (-NB), Add	152.44	
For Polished Bronze Finish (-PB), Add	116.57	
For Chrome Plated Finish (-CP), Add	260.04	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0333	EA		12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12)	1,375.92	123.92
			<i>For Nickel Bronze Finish (-NB), Add</i>	191.77	
			<i>For Polished Bronze Finish (-PB), Add</i>	146.65	
			<i>For Chrome Plated Finish (-CP), Add</i>	327.14	
07 71 23 00-0334			Leaf Guards And Cleaning (07 71 23)		
07 71 23 00-0335	LF		Aluminum Mesh Gutter Leaf Guard	3.12	0.94
			<i>For Up To 100', Add</i>	0.59	
			<i>For >100' To 250', Add</i>	0.25	
			<i>For >1,000', Deduct</i>	-0.19	
07 71 23 00-0336	LF		Vinyl Mesh Gutter Leaf Guard.....	2.82	0.94
			<i>For Up To 100', Add</i>	0.56	
			<i>For >100' To 250', Add</i>	0.23	
			<i>For >1,000', Deduct</i>	-0.19	
07 71 23 00-0337	LF		6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	12.25	1.17
			<i>For Up To 100', Add</i>	1.58	
			<i>For >100' To 250', Add</i>	0.73	
			<i>For >1,000', Deduct</i>	-0.24	
07 71 23 00-0338	LF		9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire	17.21	1.17
			<i>For Up To 100', Add</i>	2.08	
			<i>For >100' To 250', Add</i>	0.98	
			<i>For >1,000', Deduct</i>	-0.24	
07 71 23 00-0339	LF		6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh	9.34	1.17
			<i>For Up To 100', Add</i>	1.21	
			<i>For >100' To 250', Add</i>	0.56	
			<i>For >1,000', Deduct</i>	-0.19	
07 71 23 00-0340	LF		9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh	14.09	1.17
			<i>For Up To 100', Add</i>	1.69	
			<i>For >100' To 250', Add</i>	0.80	
			<i>For >1,000', Deduct</i>	-0.19	
07 71 23 00-0341	EA		Cleanout Roof Drain	145.14	
			Note: Includes removing dome and flushing.		
07 71 23 00-0342	LF		Cleanout Roof Gutters And Downspouts	1.72	
07 71 26			Reglets (07 71)		
07 71 26 00-0001			Counter Flashing With Reglet (07 71 26)		
			Note: Includes reglet cut.		
07 71 26 00-0002			Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003			Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004	LF		28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.43	4.78
07 71 26 00-0005	LF		26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.57	4.78
07 71 26 00-0006	LF		24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	14.80	4.78
07 71 26 00-0007	LF		22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	15.68	4.78
07 71 26 00-0008	LF		20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.18	4.78
07 71 26 00-0009	LF		18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.76	4.78
07 71 26 00-0010			KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011	LF		28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	16.62	4.78
07 71 26 00-0012	LF		26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	16.82	4.78
07 71 26 00-0013	LF		24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	17.15	4.78
07 71 26 00-0014	LF		22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	18.43	4.78
07 71 26 00-0015	LF		20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.16	4.78
07 71 26 00-0016	LF		18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	20.00	4.78
07 71 26 00-0017			Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018			KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019	LF		0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.07	4.78
07 71 26 00-0020	LF		0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.94	4.78
07 71 26 00-0021	LF		0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	16.81	4.78
07 71 26 00-0022	LF		0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	17.44	4.78
07 71 26 00-0023	LF		0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	18.83	4.78
07 71 26 00-0024	LF		0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	20.86	4.78
07 71 26 00-0025			Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026	LF		0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	13.08	4.78
07 71 26 00-0027	LF		0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	13.64	4.78
07 71 26 00-0028	LF		0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.19	4.78
07 71 26 00-0029	LF		0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.59	4.78
07 71 26 00-0030	LF		0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	15.49	4.78
07 71 26 00-0031	LF		0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	16.78	4.78
07 71 26 00-0032			Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	14.66	4.78
07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	15.47	4.78
07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	16.27	4.78
07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	16.85	4.78
07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	18.15	4.78
07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet	20.03	4.78
07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet <small>(07 71 26 00-0001)</small>		
07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet <small>(07 71 26 00-0039)</small>		
07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	16.22	4.78
07 71 26 00-0042 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	17.40	4.78
07 71 26 00-0043 Copper Counter Flashing With Reglet <small>(07 71 26 00-0001)</small>		
07 71 26 00-0044 Copper Counter Flashing With Reglet <small>(07 71 26 00-0043)</small>		
07 71 26 00-0045 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	30.68	4.78
07 72 Roof Accessories <small>(07 70)</small>		
07 72 13 Manufactured Curbs <small>(07 72)</small>		
07 72 13 00-0001 Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13)</small> Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0002 Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0001)</small> Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0002)</small>		
07 72 13 00-0004 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0005 EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	460.48	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.53	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	82.57	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0006 EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	471.96	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.67	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	84.87	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	46.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	94.74	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	111.97	
07 72 13 00-0007 EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	501.51	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	39.44	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	89.59	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0008 EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	545.56	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.84	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	98.40	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	75.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	153.31	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	165.37	
07 72 13 00-0009 EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	578.11	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	47.10	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	104.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0010 EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	732.15	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	61.31	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	134.53	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	125.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	203.27	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	236.00	
07 72 13 00-0011 EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	475.80	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.06	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	9.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	77.95	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	108.95	
07 72 13 00-0012 EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	503.42	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	39.63	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	89.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	72.35	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	144.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	173.98	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0013 EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	528.32	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	42.12	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.95	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0014 EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	537.90	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.08	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.87	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0015 EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	701.51	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	58.25	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	128.40	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0016 EA 38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	765.52	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	63.46	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	140.01	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	130.40	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	171.74	
07 72 13 00-0017 EA 50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	591.52	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	48.44	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	107.59	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0018 EA 50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	640.23	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	52.12	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	116.14	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	111.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	182.60	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	217.05	
07 72 13 00-0019 EA 50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	661.30	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	54.23	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	120.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0020 EA 50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	725.31	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	59.44	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	131.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	155.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	232.55	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	287.67	
07 72 13 00-0021 EA 51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	772.10	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	62.93	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	140.14	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0022 EA 51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	834.21	154.75
For Sloped Roofs Up To 1 In 12 Pitch, Add	67.95	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	151.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	213.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	322.13	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	380.69	
07 72 13 00-0023 EA 62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	661.30	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	54.23	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	120.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0024 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	704.24	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	57.33	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	127.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0025 EA 62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	770.19	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	62.73	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	139.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	210.16	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	294.56	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	344.52	
07 72 13 00-0026 EA 62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb	789.33	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	64.65	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	143.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0027	EA			62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	855.28	154.75
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.05	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	155.58	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	
07 72 13 00-0028				12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof		
				Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0029	EA			26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	485.37	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.01	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	87.55	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	37.90	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	74.07	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	93.02	
07 72 13 00-0030	EA			26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	491.12	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.59	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	88.70	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	46.51	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.74	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	111.97	
07 72 13 00-0031	EA			26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	520.66	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	41.35	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	93.42	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0032	EA			26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	570.45	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.33	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	103.38	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0033	EA			26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	606.84	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.97	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	110.66	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0034	EA			26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	755.13	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.61	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	139.12	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0035	EA			38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	493.03	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.78	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	89.08	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0036	EA			38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	555.13	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.80	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	100.31	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0037	EA			38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	593.43	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.63	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	107.97	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0038	EA			38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	637.48	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.04	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	116.78	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0039	EA			38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	732.15	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.31	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	134.53	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0040	EA			38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	803.82	130.94
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.29	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	147.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0041 EA 50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	614.50 50.74 112.19 93.02 168.81 187.76	107.14
07 72 13 00-0042 EA 50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	659.38 54.03 119.97 111.97 182.60 217.05	119.04
07 72 13 00-0043 EA 50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	690.02 57.10 126.10 132.64 192.93 251.50	119.04
07 72 13 00-0044 EA 50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	755.95 62.50 138.10 155.03 232.55 287.67	130.94
07 72 13 00-0045 EA 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	808.49 66.56 147.41 26.61 123.08 166.14	142.85
07 72 13 00-0046 EA 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	876.34 72.16 159.79 213.60 322.13 380.69	154.75
07 72 13 00-0047 EA 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	690.02 57.10 126.10 21.19 78.03 143.49	119.04
07 72 13 00-0048 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	734.88 60.39 133.88 161.92 246.33 299.73	130.94
07 72 13 00-0049 EA 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	802.74 65.99 146.26 210.16 294.56 344.52	142.85
07 72 13 00-0050 EA 62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	827.63 68.48 151.24 31.52 115.93 202.06	142.85
07 72 13 00-0051 EA 62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	897.40 74.27 164.01 265.28 351.41 461.66	154.75
07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0053 EA 26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	498.78 40.36 90.23 37.90 74.07 93.02	95.23
07 72 13 00-0054 EA 26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	504.52 40.93 91.38 46.51 94.74 111.97	95.23



Thermal And Moisture Protection	07
Roof and Wall Specialties and Accessories	07 70
Roof Accessories	07 72

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0055 EA 26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	530.24	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	95.34	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	56.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	117.14	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	129.20	
07 72 13 00-0056 EA 26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	585.77	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	47.86	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	106.44	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	75.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	153.31	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	165.37	
07 72 13 00-0057 EA 26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	627.90	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.08	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.87	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	15.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	100.17	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	110.50	
07 72 13 00-0058 EA 26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	781.94	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.29	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	144.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	125.75	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	203.27	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	236.00	
07 72 13 00-0059 EA 38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	504.52	95.23
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.93	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	91.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0060 EA 38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	530.24	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	95.34	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0061 EA 38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	627.90	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.08	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	114.87	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0062 EA 38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	673.86	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.67	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	124.06	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0063 EA 38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	755.13	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.61	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	139.12	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0064 EA 38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	828.72	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.78	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	152.65	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0065 EA 50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	629.82	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.27	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	115.25	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0066 EA 50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	636.00	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	51.70	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	115.30	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0067 EA 50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	709.17	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.01	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	129.93	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0068 EA 50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	778.93	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.80	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	142.69	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0069 EA 51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	831.47 68.86 152.01 26.61 123.08 166.14	142.85
07 72 13 00-0070 EA 51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	903.15 74.84 165.16 213.60 322.13 380.69	154.75
07 72 13 00-0071 EA 62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	709.17 59.01 129.93 21.19 78.03 143.49	119.04
07 72 13 00-0072 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	755.95 62.50 138.10 161.92 246.33 299.73	130.94
07 72 13 00-0073 EA 62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	827.63 68.48 151.24 210.16 294.56 344.52	142.85
07 72 13 00-0074 EA 62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	852.53 70.97 156.22 31.52 115.93 202.06	142.85
07 72 13 00-0075 EA 62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	926.13 77.14 169.75 265.28 351.41 461.66	154.75
07 72 13 00-0076 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0077 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)		
07 72 13 00-0078 EA 26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	439.41 34.42 78.36 37.90 74.07 93.02	95.23
07 72 13 00-0079 EA 26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	464.30 36.91 83.34 46.51 94.74 111.97	95.23
07 72 13 00-0080 EA 26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	535.98 42.89 96.48 56.85 117.14 129.20	107.14
07 72 13 00-0081 EA 26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	593.43 48.63 107.97 75.79 153.31 165.37	107.14
07 72 13 00-0082 EA 26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	635.56 52.84 116.40 15.76 100.17 110.50	107.14
07 72 13 00-0083 EA 26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	812.58 69.35 150.61 125.75 203.27 236.00	119.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0084 EA 38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	510.26	95.23
<i>For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add</i>	41.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	92.53	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	9.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	77.95	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	108.95	
07 72 13 00-0085 EA 38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	551.30	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.42	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	99.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	72.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	144.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	173.98	
07 72 13 00-0086 EA 38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	570.45	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.33	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	103.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	89.58	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	165.37	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	189.49	
07 72 13 00-0087 EA 38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	587.68	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	48.06	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	106.82	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	16.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	98.70	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	121.10	
07 72 13 00-0088 EA 38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	766.62	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.76	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	141.42	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0089 EA 38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	842.12	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	71.12	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	155.33	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0090 EA 50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	637.48	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	116.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0091 EA 50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	688.10	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.91	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	125.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0092 EA 50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	718.74	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.97	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	131.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0093 EA 50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	790.42	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.95	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	144.99	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0094 EA 51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	842.95	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.01	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	154.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0095 EA 51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	916.56	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	167.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0096 EA 62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	718.74	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	59.97	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	131.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0097 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	765.52	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.46	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	140.01	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0098	EA		62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	839.13 69.63 153.54 210.16 294.56 344.52	142.85
07 72 13 00-0099	EA		62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	865.93 72.31 158.90 31.52 115.93 202.06	142.85
07 72 13 00-0100	EA		62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	941.45 78.67 172.82 265.28 351.41 461.66	154.75
07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)					
07 72 13 00-0102	EA		26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	456.64 36.14 81.81 37.90 74.07 93.02	95.23
07 72 13 00-0103	EA		26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	485.37 39.01 87.55 46.51 94.74 111.97	95.23
07 72 13 00-0104	EA		26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	564.70 45.76 102.23 56.85 117.14 129.20	107.14
07 72 13 00-0105	EA		26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	627.90 52.08 114.87 75.79 153.31 165.37	107.14
07 72 13 00-0106	EA		26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	679.60 57.25 125.21 15.76 100.17 110.50	107.14
07 72 13 00-0107	EA		26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	820.24 70.12 152.14 125.75 203.27 236.00	119.04
07 72 13 00-0108	EA		38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	535.16 43.99 97.51 9.04 77.95 108.95	95.23
07 72 13 00-0109	EA		38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	581.94 47.48 105.68 72.35 144.70 173.98	107.14
07 72 13 00-0110	EA		38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	606.84 49.97 110.66 89.58 165.37 189.49	107.14
07 72 13 00-0111	EA		38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	629.82 52.27 115.25 16.02 98.70 121.10	107.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0112 EA 38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	812.58	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.35	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	150.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	111.97	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	146.42	
07 72 13 00-0113 EA 38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	897.66	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.67	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	166.44	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	130.40	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	171.74	
07 72 13 00-0114 EA 50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	671.94	107.14
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	56.48	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	123.68	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	93.02	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	168.81	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	187.76	
07 72 13 00-0115 EA 50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	726.40	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.74	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	133.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	111.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	182.60	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	217.05	
07 72 13 00-0116 EA 50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	762.79	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.38	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	140.65	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0117 EA 50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	836.38	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.54	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	154.18	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0118 EA 51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	896.57	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.37	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	165.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0119 EA 51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	977.84	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	82.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	180.09	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0120 EA 62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	762.79	119.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.38	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	140.65	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0121 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	815.32	130.94
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	68.44	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	149.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0122 EA 62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	892.75	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.99	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	164.27	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	210.16	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	294.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	344.52	
07 72 13 00-0123 EA 62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	921.47	142.85
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	77.86	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	170.01	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0124 EA 62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,006.56	154.75
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	85.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	185.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	

07 72 13 00-0125 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0126	EA		26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....470.05 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 37.48 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 84.49 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 37.90 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 74.07 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 93.02	470.05	95.23
07 72 13 00-0127	EA		26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....500.69 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 40.55 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 90.62 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 46.51 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 94.74 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 111.97	500.69	95.23
07 72 13 00-0128	EA		26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....581.94 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 47.48 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 105.68 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 56.85 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 117.14 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 129.20	581.94	107.14
07 72 13 00-0129	EA		26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....650.88 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 54.38 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 119.46 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 75.79 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 153.31 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 165.37	650.88	107.14
07 72 13 00-0130	EA		26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....708.33 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 60.12 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 130.95 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 15.76 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 100.17 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 110.50	708.33	107.14
07 72 13 00-0131	EA		26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....881.52 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 76.25 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 164.40 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 125.75 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 203.27 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 236.00	881.52	119.04
07 72 13 00-0132	EA		38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....554.31 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 45.91 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 101.34 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 9.04 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 77.95 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 108.95	554.31	95.23
07 72 13 00-0133	EA		38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....614.50 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 50.74 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 112.19 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 72.35 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 144.70 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 173.98	614.50	107.14
07 72 13 00-0134	EA		38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....648.96 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 54.18 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 119.08 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 89.58 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 165.37 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 189.49	648.96	107.14
07 72 13 00-0135	EA		38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....656.62 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 54.95 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 120.61 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 16.02 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 98.70 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 121.10	656.62	107.14
07 72 13 00-0136	EA		38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....847.05 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 72.80 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 157.51 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 20.67 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 111.97 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 146.42	847.05	119.04
07 72 13 00-0137	EA		38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....935.96 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 80.50 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 174.10 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 25.32 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 130.40 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 171.74	935.96	130.94
07 72 13 00-0138	EA		50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....694.92 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 58.78 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 128.27 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 93.02 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 168.81 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 187.76	694.92	107.14
07 72 13 00-0139	EA		50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb .....699.74 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 58.07 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 128.04 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 111.97 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 182.60 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 217.05	699.74	119.04



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0140	EA			50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	791.52	119.04
				<i>For Sloped Roofs Up To 1 In 12 To 3 In 12 Pitch, Add</i>	67.25	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	146.40	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	132.64	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	192.93	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	251.50	
07 72 13 00-0141	EA			50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	870.85	130.94
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	73.99	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.08	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	155.03	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	232.55	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	287.67	
07 72 13 00-0142	EA			51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	931.05	142.85
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.82	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	171.93	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.61	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	123.08	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	166.14	
07 72 13 00-0143	EA			51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,019.96	154.75
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.52	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	188.52	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	213.60	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	322.13	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	380.69	
07 72 13 00-0144	EA			62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	791.52	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.25	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	146.40	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	21.19	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	78.03	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	143.49	
07 72 13 00-0145	EA			62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	849.78	130.94
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	71.88	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	156.86	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	161.92	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	246.33	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	299.73	
07 72 13 00-0146	EA			62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	925.30	142.85
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.25	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	170.78	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	210.16	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	294.56	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	344.52	
07 72 13 00-0147	EA			62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	959.77	142.85
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	81.69	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	177.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.52	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	115.93	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	202.06	
07 72 13 00-0148	EA			62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,048.69	154.75
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.39	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	194.26	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	265.28	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	351.41	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	461.66	
07 72 13 00-0149				Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0001)</small>		
				Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150				6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0149)</small>		
07 72 13 00-0151	EA			14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	417.86	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	32.26	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	74.05	
07 72 13 00-0152	EA			23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	518.81	95.23
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	42.36	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	94.24	
07 72 13 00-0153	EA			32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	598.75	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.16	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	109.04	
07 72 13 00-0154	EA			41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	679.36	107.14
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.22	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	125.16	
07 72 13 00-0155	EA			50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	750.05	119.04
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.10	
				<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	138.11	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 72 13 00-0156	12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width		
	Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0157	EA 14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	565.68	95.23
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	47.05	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.61	
07 72 13 00-0158	EA 23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	702.68	95.23
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	60.75	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	131.01	
07 72 13 00-0159	EA 32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	730.35	107.14
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	62.32	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	135.36	
07 72 13 00-0160	EA 41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	781.85	107.14
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	67.47	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	145.66	
07 72 13 00-0161	EA 50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	877.78	119.04
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	75.87	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	163.65	
07 72 13 00-0162	EA 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width	1,586.05	130.94
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	145.51	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	304.12	
07 72 13 00-0163	18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable		
	Width Prefabricated Roof Curbs (07 72 13 00-0149)		
07 72 13 00-0164	EA 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width	808.53	95.23
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	71.33	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	152.18	
07 72 13 00-0165	EA 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width	948.62	95.23
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	85.34	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	180.20	
07 72 13 00-0166	EA 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width	1,138.79	107.14
	Prefabricated Roof Curb		
	For Sloped Roofs Up To 1 In 12 Pitch, Add	103.17	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	217.05	
07 72 13 00-0167	Wood, Prefabricated Roof Curbs (07 72 13)		
	Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0168	Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0167)		
07 72 13 00-0169	2 x 6 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0170	EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	329.99	95.23
	For Sloped Roofs Up To 1 In 12 Pitch, Add	23.48	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	56.48	
	For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
	For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
	For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0171	EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	364.13	107.14
	For Sloped Roofs Up To 1 In 12 Pitch, Add	25.70	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	62.11	
	For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
	For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
	For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0172	EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	408.91	107.14
	For Sloped Roofs Up To 1 In 12 Pitch, Add	30.18	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.07	
	For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
	For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
	For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0173	EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	403.75	107.14
	For Sloped Roofs Up To 1 In 12 Pitch, Add	29.66	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.04	
	For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
	For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
	For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0174	EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	415.80	107.14
	For Sloped Roofs Up To 1 In 12 Pitch, Add	30.87	
	For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	72.45	
	For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
	For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
	For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0175 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	468.91	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.99	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.88	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0176 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	412.36	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	30.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	71.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0177 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	484.41	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.54	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	84.98	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0178 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	532.02	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.92	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.12	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0179 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	453.40	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.44	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	78.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0180 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	497.88	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.69	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	86.48	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0181 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	566.47	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	42.36	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	99.01	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0168)</small>		
07 72 13 00-0183 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	340.33	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.51	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	58.54	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0184 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	376.18	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.91	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	64.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0185 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	441.64	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.45	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0186 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	424.42	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	31.73	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	74.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0187 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	441.64	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.45	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0188 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb	494.75	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.57	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0189	EA		50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	431.31 32.42 75.55 93.02 168.81 187.76	107.14
07 72 13 00-0190	EA		50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	508.53 38.95 89.80 132.64 192.93 251.50	119.04
07 72 13 00-0191	EA		51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	556.14 41.33 96.94 26.61 123.08 166.14	142.85
07 72 13 00-0192	EA		62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	472.35 35.33 82.57 21.19 78.03 143.49	119.04
07 72 13 00-0193	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	520.27 38.93 90.96 161.92 246.33 299.73	130.94
07 72 13 00-0194	EA		62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	590.59 44.77 103.83 31.52 115.93 202.06	142.85
07 72 13 00-0195			2 x 10 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0196	EA		26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	347.22 25.20 59.92 37.90 74.07 93.02	95.23
07 72 13 00-0197	EA		26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	388.24 28.11 66.94 56.85 117.14 129.20	107.14
07 72 13 00-0198	EA		26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	445.09 33.80 78.31 15.76 100.17 110.50	107.14
07 72 13 00-0199	EA		38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	436.48 32.94 76.58 89.58 165.37 189.49	107.14
07 72 13 00-0200	EA		38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	457.15 35.00 80.72 16.02 98.70 121.10	107.14
07 72 13 00-0201	EA		38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	511.97 39.29 90.49 20.67 111.97 146.42	119.04
07 72 13 00-0202	EA		50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	443.37 33.62 77.96 93.02 168.81 187.76	107.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0203 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	524.03 40.50 92.90 132.64 192.93 251.50	119.04
07 72 13 00-0204 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	571.64 42.88 100.04 26.61 123.08 166.14	142.85
07 72 13 00-0205 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	484.41 36.54 84.98 21.19 78.03 143.49	119.04
07 72 13 00-0206 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	534.05 40.31 93.72 161.92 246.33 299.73	130.94
07 72 13 00-0207 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	607.82 46.50 107.28 31.52 115.93 202.06	142.85
07 72 13 00-0208 2 x 12 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0168)</small>		
07 72 13 00-0209 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	355.83 26.06 61.64 37.90 74.07 93.02	95.23
07 72 13 00-0210 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	395.13 28.80 68.31 56.85 117.14 129.20	107.14
07 72 13 00-0211 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	460.59 35.35 81.41 15.76 100.17 110.50	107.14
07 72 13 00-0212 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	474.37 36.72 84.16 16.02 98.70 121.10	107.14
07 72 13 00-0213 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	530.92 41.19 94.28 20.67 111.97 146.42	119.04
07 72 13 00-0214 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	458.87 35.17 81.06 93.02 168.81 187.76	107.14
07 72 13 00-0215 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	541.26 42.22 96.35 132.64 192.93 251.50	119.04
07 72 13 00-0216 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	592.31 44.95 104.18 26.61 123.08 166.14	142.85

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0217	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....547.83 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 41.69 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 96.47 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 161.92 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 246.33 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 299.73		130.94
07 72 13 00-0218			Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0167)</small>		
07 72 13 00-0219			2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0220	EA		26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....343.77 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 24.85 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 59.23 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 37.90 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 74.07 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 93.02		95.23
07 72 13 00-0221	EA		26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....376.18 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 26.91 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 64.52 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 56.85 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 117.14 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 129.20		107.14
07 72 13 00-0222	EA		26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....431.31 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 32.42 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 75.55 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 15.76 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 100.17 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 110.50		107.14
07 72 13 00-0223	EA		38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....419.25 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 31.21 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 73.14 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 89.58 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 165.37 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 189.49		107.14
07 72 13 00-0224	EA		38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....434.75 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 32.76 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 76.24 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 16.02 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 98.70 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 121.10		107.14
07 72 13 00-0225	EA		38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....489.58 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 37.05 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 86.01 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 20.67 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 111.97 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 146.42		119.04
07 72 13 00-0226	EA		50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....427.86 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 32.07 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 74.86 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 93.02 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 168.81 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 187.76		107.14
07 72 13 00-0227	EA		50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....503.36 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 38.43 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 88.77 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 132.64 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 192.93 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 251.50		119.04
07 72 13 00-0228	EA		51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....550.97 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 40.81 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 95.91 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 26.61 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 123.08 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 166.14		142.85
07 72 13 00-0229	EA		62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....474.08 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 35.50 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 82.91 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 21.19 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 78.03 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 143.49		119.04
07 72 13 00-0230	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....516.82 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 38.59 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 90.27 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 161.92 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 246.33 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 299.73		130.94
07 72 13 00-0231	EA		62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....590.59 <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> 44.77 <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> 103.83 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> 31.52 <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> 115.93 <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i> 202.06		142.85
07 72 13 00-0232			2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0233 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	355.83	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.06	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0234 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	389.97	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	67.28	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0235 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	451.98	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0236 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	439.92	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	77.27	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0237 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	462.31	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	35.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	81.75	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0238 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	520.59	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	40.16	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.21	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0239 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	451.98	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.49	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	79.68	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0240 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	532.64	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.36	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	94.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0241 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	583.70	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	44.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	102.46	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0242 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	496.47	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.74	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.39	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0243 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb.....	542.66	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.17	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	95.44	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0244 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	619.87	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	47.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	109.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0246 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	366.17	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	63.71	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0247 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	403.75	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	29.66	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	70.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	
07 72 13 00-0248 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	472.65	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.55	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	83.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0249 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	455.42	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	34.83	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	80.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	89.58	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	165.37	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	189.49	
07 72 13 00-0250 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	482.99	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	37.59	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	85.89	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0251 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	542.98	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	42.39	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.69	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0252 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	467.48	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	36.04	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	82.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0253 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	551.59	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.26	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	98.41	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0254 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	604.37	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	46.15	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	106.59	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0255 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	513.70	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	39.47	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	90.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	21.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	78.03	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	143.49	
07 72 13 00-0256 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	561.61	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.07	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	99.23	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	
07 72 13 00-0257 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	642.27	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	49.94	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	114.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	115.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	202.06	
07 72 13 00-0258 2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0259 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	386.84	95.23
For Sloped Roofs Up To 1 In 12 Pitch, Add	29.16	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	67.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	37.90	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	74.07	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	93.02	
07 72 13 00-0260 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	414.08	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	30.70	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	72.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	56.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	117.14	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	129.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0261 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	488.15	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.10	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	86.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	15.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	100.17	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	110.50	
07 72 13 00-0262 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	500.21	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	39.31	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	89.33	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	16.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	98.70	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	121.10	
07 72 13 00-0263 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	608.44	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	48.94	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	109.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	111.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	146.42	
07 72 13 00-0264 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	517.44	107.14
For Sloped Roofs Up To 1 In 12 Pitch, Add	41.03	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	92.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	93.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	168.81	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	187.76	
07 72 13 00-0265 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	611.88	119.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	49.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	110.47	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	132.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	192.93	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	251.50	
07 72 13 00-0266 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	673.27	142.85
For Sloped Roofs Up To 1 In 12 Pitch, Add	53.04	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	120.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.61	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	123.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	166.14	
07 72 13 00-0267 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb	625.35	130.94
For Sloped Roofs Up To 1 In 12 Pitch, Add	49.44	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	111.98	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	161.92	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	246.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	299.73	

07 72 23 Relief Vents (07 72)

07 72 23 00-0001 Wind Driven Turbine Ventilators (07 72 23)

Note: Excludes curb or flange base.

07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0003 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	146.31	39.19
For Curb Or Flange Base, Add	176.54	
07 72 23 00-0004 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	174.19	43.39
For Curb Or Flange Base, Add	194.94	
07 72 23 00-0005 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	190.62	51.79
For Curb Or Flange Base, Add	220.42	
07 72 23 00-0006 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	344.93	57.39
For Curb Or Flange Base, Add	329.84	
07 72 23 00-0007 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	467.89	64.39
For Curb Or Flange Base, Add	359.14	
07 72 23 00-0008 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	560.44	69.98
For Curb Or Flange Base, Add	389.28	
07 72 23 00-0009 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	710.87	78.38
For Curb Or Flange Base, Add	470.56	
07 72 23 00-0010 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator	1,162.53	104.98
For Curb Or Flange Base, Add	750.24	

07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)

07 72 23 00-0012 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	147.17	39.19
For Curb Or Flange Base, Add	186.29	
07 72 23 00-0013 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	181.48	43.39
For Curb Or Flange Base, Add	205.87	
07 72 23 00-0014 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	204.73	51.79
For Curb Or Flange Base, Add	231.46	
07 72 23 00-0015 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	349.51	57.39
For Curb Or Flange Base, Add	370.57	
07 72 23 00-0016 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	446.89	64.39
For Curb Or Flange Base, Add	398.26	
07 72 23 00-0017 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	560.26	69.98
For Curb Or Flange Base, Add	446.22	
07 72 23 00-0018 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	750.07	78.38
For Curb Or Flange Base, Add	534.62	
07 72 23 00-0019 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator	1,112.32	104.98
For Curb Or Flange Base, Add	793.74	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0020 Stationary Siphon Ventilators <small>(07 72 23)</small> Note: Excludes curb or flange base.		
07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators <small>(07 72 23 00-0020)</small>		
07 72 23 00-0022 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	126.48	39.19
For Curb Or Flange Base, Add	176.54	
07 72 23 00-0023 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	162.85	43.39
For Curb Or Flange Base, Add	194.94	
07 72 23 00-0024 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	181.32	51.79
For Curb Or Flange Base, Add	220.42	
07 72 23 00-0025 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	294.04	57.39
For Curb Or Flange Base, Add	329.84	
07 72 23 00-0026 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	339.11	64.39
For Curb Or Flange Base, Add	359.14	
07 72 23 00-0027 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	469.43	69.98
For Curb Or Flange Base, Add	389.28	
07 72 23 00-0028 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	605.39	78.38
For Curb Or Flange Base, Add	470.56	
07 72 23 00-0029 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	873.17	104.98
For Curb Or Flange Base, Add	750.24	
07 72 23 00-0030 Mill Finish Aluminum, Stationary Siphon Ventilators <small>(07 72 23 00-0020)</small>		
07 72 23 00-0031 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	142.10	39.19
For Curb Or Flange Base, Add	186.29	
07 72 23 00-0032 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	184.50	43.39
For Curb Or Flange Base, Add	205.87	
07 72 23 00-0033 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	207.27	51.79
For Curb Or Flange Base, Add	231.46	
07 72 23 00-0034 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	325.66	57.39
For Curb Or Flange Base, Add	370.57	
07 72 23 00-0035 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	406.38	64.39
For Curb Or Flange Base, Add	398.26	
07 72 23 00-0036 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	494.41	69.98
For Curb Or Flange Base, Add	446.22	
07 72 23 00-0037 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	699.45	78.38
For Curb Or Flange Base, Add	534.62	
07 72 23 00-0038 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	1,047.61	104.98
For Curb Or Flange Base, Add	793.74	
07 72 23 00-0039 Spun Aluminum, Stationary Mushroom Gravity Ventilators <small>(07 72 23)</small> Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040 EA 8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	302.15	62.98
For Backdraft Damper, Add	137.51	
For Curb Base, Add	224.22	
07 72 23 00-0041 EA 10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	367.48	69.98
For Backdraft Damper, Add	150.45	
For Curb Base, Add	245.51	
07 72 23 00-0042 EA 12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	418.64	83.99
For Backdraft Damper, Add	205.45	
For Curb Base, Add	309.81	
07 72 23 00-0043 EA 16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	504.36	92.38
For Backdraft Damper, Add	234.57	
For Curb Base, Add	357.46	
07 72 23 00-0044 EA 24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,267.78	125.98
For Backdraft Damper, Add	294.43	
For Curb Base, Add	472.00	
07 72 23 00-0045 EA 30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,543.25	145.57
For Backdraft Damper, Add	347.81	
For Curb Base, Add	562.68	
07 72 23 00-0046 EA 36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,084.57	167.96
For Backdraft Damper, Add	347.81	
For Curb Base, Add	590.51	
07 72 23 00-0047 EA 42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,897.68	181.97
For Backdraft Damper, Add	363.99	
For Curb Base, Add	614.37	
07 72 23 00-0048 EA 48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	4,129.80	195.96
For Backdraft Damper, Add	404.43	
For Curb Base, Add	688.38	
07 72 23 00-0049 Galvanized Steel, Stationary Gooseneck Ventilators <small>(07 72 23)</small> Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050 EA 8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	506.90	69.98
07 72 23 00-0051 EA 12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	602.01	92.38
07 72 23 00-0052 EA 16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	861.70	125.98
07 72 23 00-0053 EA 24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	1,301.27	145.57

07 72 26 **Ridge Vents** (07 72)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 26 00-0001 Aluminum Ridge Vents (07 72 26)		
07 72 26 00-0002 LF Aluminum Ridge Vent Strips.....	13.47	4.06
07 72 26 00-0003 EA Aluminum Ridge Univent Connectors.....	60.89	25.23
07 72 26 00-0004 EA Aluminum Ridge Univent End Cap.....	58.20	25.23
07 72 26 00-0005 Galvanized Ridge Vents (07 72 26)		
07 72 26 00-0006 LF Galvanized Sheet Metal Ridge Vent Strips.....	14.44	4.34
07 72 29 Rafter Vent (07 72)		
07 72 29 00-0001 Rafter Vent (07 72 29)		
Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002 EA 22" x 4' Rafter Vent.....	10.67	
07 72 29 00-0003 EA 14" x 4' Rafter Vent.....	9.81	
07 72 33 Roof Hatches (07 72)		
Note: Includes curb with integral insulation, lockable hatch and gaskets.		
07 72 33 00-0001 Galvanized Steel Cover And Curb (07 72 33)		
07 72 33 00-0002 EA 2'-6" x 3'-0" Galvanized Steel Roof Hatch (Bilco S-20).....	1,250.57	170.43
07 72 33 00-0003 EA 2'-6" x 4'-6" Galvanized Steel Roof Hatch (Bilco NB-20).....	1,812.02	189.37
07 72 33 00-0004 EA 2'-6" x 8'-0" Galvanized Steel Roof Hatch (Bilco L-20).....	3,170.75	258.26
07 72 33 00-0005 EA 3'-0" x 3'-0" Galvanized Steel Roof Hatch (Bilco E-20).....	1,781.82	189.37
07 72 33 00-0006 EA 4'-0" x 4'-0" Galvanized Steel Roof Hatch.....	2,009.44	210.44
07 72 33 00-0007 EA 3'-0" x 8'-0" Galvanized Steel Roof Hatch.....	3,275.57	287.02
07 72 33 00-0008 Aluminum Cover And Curb (07 72 33)		
07 72 33 00-0009 EA 2'-6" x 3'-0" Aluminum Roof Hatch (Bilco S-50).....	1,151.18	170.43
07 72 33 00-0010 EA 2'-6" x 4'-6" Aluminum Roof Hatch (Bilco NB-50).....	1,479.58	189.37
07 72 33 00-0011 EA 2'-6" x 8'-0" Aluminum Roof Hatch (Bilco L-50).....	2,644.75	258.26
07 72 33 00-0012 EA 3'-0" x 3'-0" Aluminum Roof Hatch (Bilco E-50).....	1,442.72	189.37
07 72 33 00-0013 EA 4'-0" x 4'-0" Aluminum Roof Hatch (Bilco F-50).....	2,510.31	210.44
07 72 33 00-0014 EA 3'-0" x 8'-0" Aluminum Roof Hatch.....	2,783.34	287.02
07 72 33 00-0015 EA 3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight (Bilco GS-50).....	1,603.98	189.37
07 72 33 00-0016 Steel, Plain, Primed (07 72 33)		
07 72 33 00-0017 EA 2'-6" x 3'-0" Plain Steel Roof Hatch Primed (Bilco S-20).....	1,201.88	170.43
07 72 33 00-0018 EA 2'-6" x 4'-6" Plain Steel Roof Hatch Primed (Bilco NB-20).....	1,609.77	189.37
07 72 33 00-0019 EA 2'-6" x 8'-0" Plain Steel Roof Hatch Primed (Bilco L-20).....	2,204.85	258.26
07 72 33 00-0020 EA 3'-0" x 3'-0" Plain Steel Roof Hatch Primed (Bilco E-20).....	1,494.30	189.37
07 72 33 00-0021 EA 4'-0" x 4'-0" Plain Steel Roof Hatch Primed.....	1,823.95	210.44
07 72 33 00-0022 EA 3'-0" x 8'-0" Plain Steel Roof Hatch Primed.....	2,477.95	287.02
07 72 33 00-0023 Stainless Steel (07 72 33)		
07 72 33 00-0024 EA 2'-6" x 3'-0" Stainless Steel Roof Hatch (Bilco S-90).....	2,489.88	170.43
07 72 33 00-0025 EA 2'-6" x 4'-6" Stainless Steel Roof Hatch (Bilco NB-90).....	4,698.46	189.37
07 72 33 00-0026 EA 2'-6" x 8'-0" Stainless Steel Roof Hatch (Bilco L-90).....	7,052.61	258.26
07 72 33 00-0027 EA 3'-0" x 3'-0" Stainless Steel Roof Hatch (Bilco E-90).....	3,782.28	189.37
07 72 33 00-0028 EA 4'-0" x 4'-0" Stainless Steel Roof Hatch.....	7,908.24	210.44
07 72 33 00-0029 EA 3'-0" x 8'-0" Stainless Steel Roof Hatch.....	8,879.56	287.02
07 72 33 00-0030 Removal And Reinstallation Of Roof Hatch (07 72 33)		
Note: Includes storage, cleaning and supply materials.		
07 72 33 00-0031 EA Removal And Reinstallation Of Roof Hatch (All Types).....	524.23	
07 72 33 00-0032 Aluminum Cover And Galvanized Steel Curb (07 72 33)		
07 72 33 00-0033 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof (Bilco S-40).....	1,117.88	189.37
07 72 33 00-0034 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof (Bilco NB-40).....	1,446.28	210.44
07 72 33 00-0035 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof (Bilco L-40).....	2,558.19	286.90
07 72 33 00-0036 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof (Bilco E-40).....	1,416.08	195.29
07 72 33 00-0037 EA Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof (Bilco F-40).....	2,437.06	216.36
07 72 33 00-0038 Roof Hatch Accessories (07 72 33)		
07 72 33 00-0039 EA Roof Hatch Ladderup Safety Post (Bilco LU-1).....	769.35	88.76
07 72 33 00-0040 Roof Hatch Safety Railing (07 72 33)		
Note: Included mounting bracket to attach to roof hatch		
07 72 33 00-0041 EA 24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x24).....	1,751.03	
07 72 33 00-0042 EA 24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x36).....	1,819.06	
07 72 33 00-0043 EA 30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x30).....	1,861.94	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 33 00-0044	EA		30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x36).....	2,021.65	
07 72 33 00-0045	EA		36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-36x36).....	2,206.51	
07 72 33 00-0046	EA		48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-48x48).....	2,796.54	
07 72 36			Smoke Vents (07 72)		
07 72 36 00-0001			Fire Vent (07 72 36)		
07 72 36 00-0002			Galvanized Steel Covers And Curb (07 72 36 00-0001)		
07 72 36 00-0003	EA		4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848).....	3,130.40	157.89
07 72 36 00-0004	EA		4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872).....	3,608.72	217.07
07 72 36 00-0005	EA		4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890).....	4,111.31	236.83
07 72 36 00-0006	EA		4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896).....	4,194.00	248.67
07 72 36 00-0007	EA		5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060).....	4,851.52	217.07
07 72 36 00-0008	EA		5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072).....	5,159.35	236.83
07 72 36 00-0009	EA		5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084).....	5,448.61	256.59
07 72 36 00-0010	EA		5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096).....	6,201.61	276.36
07 72 36 00-0011	EA		5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120).....	7,687.33	296.01
07 72 36 00-0012	EA		5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666).....	5,161.09	256.59
07 72 36 00-0013	EA		5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114).....	10,814.66	315.78
07 72 36 00-0014	EA		6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272).....	5,956.49	335.54
07 72 36 00-0015			Aluminum Covers And Galvanized Steel Curb (07 72 36 00-0001)		
07 72 36 00-0016	EA		4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4848A).....	2,394.18	157.89
07 72 36 00-0017	EA		4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4872A).....	2,755.97	217.07
07 72 36 00-0018	EA		4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4890A).....	3,098.53	236.83
07 72 36 00-0019	EA		4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4896A).....	3,209.51	248.67
07 72 36 00-0020	EA		5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6060A).....	3,108.89	217.07
07 72 36 00-0021	EA		5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6072A).....	3,957.52	236.83
07 72 36 00-0022	EA		5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6084A).....	4,233.47	256.59
07 72 36 00-0023	EA		5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6096A).....	4,129.87	276.36
07 72 36 00-0024	EA		5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-60120A).....	5,770.91	296.01
07 72 36 00-0025	EA		5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6666A).....	4,000.41	256.59
07 72 36 00-0026	EA		5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-66144A).....	7,545.13	315.78
07 72 36 00-0027	EA		6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-7272A).....	3,952.28	335.54
07 72 36 00-0028			Aluminum Covers And Curb (07 72 36 00-0001)		
07 72 36 00-0029	EA		4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848B).....	2,607.26	157.89
07 72 36 00-0030	EA		4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872B).....	3,108.89	217.07
07 72 36 00-0031	EA		4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890B).....	3,411.49	236.83
07 72 36 00-0032	EA		4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896B).....	3,609.04	248.67
07 72 36 00-0033	EA		5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060B).....	3,268.70	217.07
07 72 36 00-0034	EA		5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072B).....	4,123.99	236.83
07 72 36 00-0035	EA		5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084B).....	4,379.96	256.59
07 72 36 00-0036	EA		5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096B).....	4,529.40	276.36
07 72 36 00-0037	EA		5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120B).....	5,484.58	296.01
07 72 36 00-0038	EA		5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666B).....	4,186.85	256.59
07 72 36 00-0039	EA		5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114B).....	8,230.99	315.78
07 72 36 00-0040	EA		6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272B).....	4,351.82	335.54
07 72 36 00-0041			Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb (07 72 36)		
07 72 36 00-0042	EA		4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4848B).....	2,580.63	157.42
07 72 36 00-0043	EA		4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4872B).....	3,275.35	217.07
07 72 36 00-0044	EA		4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4896B).....	3,469.20	248.67
07 72 36 00-0045	EA		5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6060B).....	3,708.20	217.07
07 72 36 00-0046	EA		5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6096B).....	3,930.12	276.36
07 72 46			Roof Walkways (07 72)		
07 72 46 00-0001			Recycled Rubber Walkway Pads (07 72 46)		
07 72 46 00-0002	SF		3/8" Thick, Button Surface, Recycled Rubber Walkway Pad.....	10.52	2.64
			For Diamond Surface, Add.....	0.88	
07 72 46 00-0003	SF		1/2" Thick, Button Surface, Recycled Rubber Walkway Pad.....	11.72	3.16
			For Diamond Surface, Add.....	1.03	
07 72 46 00-0004	SF		3/4" Thick, Button Surface, Recycled Rubber Walkway Pad.....	12.94	3.16
			For Diamond Surface, Add.....	1.15	
07 72 53			Snow Guards (07 72)		
07 72 53 00-0001			Snow Guards For Shingle And Tile Roofs (07 72 53)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0002 EA 6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs.....	20.37	2.69
07 72 53 00-0003 EA 6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs	22.25	2.69
07 72 53 00-0004 EA 6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs.....	21.01	2.69
07 72 53 00-0005 EA 6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs.....	12.30	2.69
07 72 53 00-0006 Snow Guards For Metal Roofs (07 72 53)		
Note: Aluminum construction.		
07 72 53 00-0007 EA Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	24.68	5.01
07 72 53 00-0008 EA Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	27.27	5.01
07 72 53 00-0009 EA Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	39.50	5.01
07 72 53 00-0010 EA Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	38.95	5.01
07 72 53 00-0011 EA Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	36.95	5.84
07 72 53 00-0012 EA Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	40.20	5.84
07 72 53 00-0013 EA Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	49.76	5.84
07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	21.57	4.38
<i>For Mechanically Fastened, Add</i>		
07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	24.26	4.38
<i>For Mechanically Fastened, Add</i>		
07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM).....	33.38	4.38
<i>For Mechanically Fastened, Add</i>		
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15)	13.98	4.38
Note: Can be used for metal, rubber, PVC, TPO or glass roofing.		
<i>For Mechanically Fastened, Add</i>		
	11.68	
07 72 53 00-0018 Snow Breaker For Roofs (07 72 53)		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.24	5.84
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	16.34	5.84
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	15.88	5.84
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	15.34	5.84
07 72 53 00-0023 Ice Breaker For Vents (07 72 53)		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened.....	127.13	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened.....	145.77	
07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs (07 72 53)		
07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps (07 72 53 00-0026)		
Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	63.78	17.52
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000)	74.85	17.52
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	83.69	17.52
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000)	102.71	17.52
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000).....	106.86	21.02
07 72 53 00-0033 Tubing For Snow Guard Clamps (07 72 53 00-0026)		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®).....	13.48	4.20
Note: Includes end caps, collars and couplings.		
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®)	25.23	4.20
Note: Includes end caps, collars and couplings.		
07 72 56 Snow/Ice Melt Cable (07 72)		
07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters (07 72 56)		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters	14.28	1.37
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters.....	15.31	1.37
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters.....	264.82	102.77
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters.....	200.59	75.37
07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	10.01	4.11
<i>For >5, Deduct</i>		
07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	9.35	4.11
<i>For >5, Deduct</i>		
07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters	58.47	10.28
07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow	907.78	82.22
07 72 56 00-0010 EA Automatic Gutter Ice Melting Control	1,240.58	102.77
07 72 63 Waste Containment Assemblies (07 72)		
07 72 63 00-0001 Rooftop Oil And Grease Containment System (07 72 63)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E).....	2,570.58	215.04
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E).....	2,865.40	215.04
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E).....	3,503.16	223.64
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E).....	3,486.31	223.64
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E).....	4,538.58	241.92
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....	3,556.93	241.92
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....	3,969.40	286.64
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E).....	5,827.55	358.36
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E).....	7,209.43	358.36
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E).....	9,105.31	358.36
07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....	3,147.68	215.04
07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....	3,531.09	215.04
07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....	4,350.00	223.64
07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....	4,425.85	223.64
07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....	6,295.44	241.92
07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....	6,897.91	241.92
07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....	6,429.84	286.64
07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....	7,251.56	358.36
07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....	9,050.54	358.36
07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....	11,515.19	358.36
07 72 63 00-0024 Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63)</small> Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025 Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0026 Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0025)</small>		
07 72 63 00-0027 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E).....	210.36	
07 72 63 00-0028 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E).....	294.64	
07 72 63 00-0029 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E).....	421.01	
07 72 63 00-0030 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E).....	389.64	
07 72 63 00-0031 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E).....	726.69	
07 72 63 00-0032 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E).....	735.11	
07 72 63 00-0033 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E).....	568.92	
07 72 63 00-0034 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E).....	737.45	
07 72 63 00-0035 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E).....	1,078.71	
07 72 63 00-0036 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E).....	1,419.96	
07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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07 72 63 00-0038			Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0039	SET		48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC)	437.14	
07 72 63 00-0040	SET		60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC)	580.40	
07 72 63 00-0041	SET		60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC)	841.61	
07 72 63 00-0042	SET		72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC)	784.94	
07 72 63 00-0043	SET		72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC)	1,505.38	
07 72 63 00-0044	SET		72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC)	1,513.80	
07 72 63 00-0045	SET		90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC)	1,124.32	
07 72 63 00-0046	SET		108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC)	1,516.14	
07 72 63 00-0047	SET		120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC)	2,219.72	
07 72 63 00-0048	SET		144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC)	2,952.80	

07 72 63 00-0049			Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0050	SET		48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C)	542.48	
07 72 63 00-0051	SET		60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C)	673.09	
07 72 63 00-0052	SET		60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C)	984.85	
07 72 63 00-0053	SET		72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C)	932.41	
07 72 63 00-0054	SET		72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C)	1,812.93	
07 72 63 00-0055	SET		72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C)	1,804.51	
07 72 63 00-0056	SET		90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C)	1,318.13	
07 72 63 00-0057	SET		108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C)	1,823.69	
07 72 63 00-0058	SET		120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C)	2,556.77	
07 72 63 00-0059	SET		144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C)	3,555.27	

07 73 Roof Protection Board (07 70)

07 73 00 00-0001			Roof Protection Board <small>(07 73)</small>		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.					
07 73 00 00-0002			Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) <small>(07 73 00 00-0001)</small>		
07 73 00 00-0003	SF		1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	3.50	0.54
For No Adhesive, Deduct				-0.76	
07 73 00 00-0004	SF		1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	3.96	0.59
For No Adhesive, Deduct				-0.78	
07 73 00 00-0005	SF		5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	4.17	0.64
For No Adhesive, Deduct				-0.80	
07 73 00 00-0006	SF		1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	3.55	0.54
For No Adhesive, Deduct				-0.76	
07 73 00 00-0007	SF		1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.03	0.59
For No Adhesive, Deduct				-0.78	
07 73 00 00-0008	SF		5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.24	0.64
For No Adhesive, Deduct				-0.80	
07 73 00 00-0009			Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) <small>(07 73 00 00-0001)</small>		
07 73 00 00-0010	SF		1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	3.42	0.54
07 73 00 00-0011	SF		1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	3.88	0.59

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 73 Roof Protection Board



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0012	SF		5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®).....	4.12	0.64
07 73 00 00-0013	SF		1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	3.47	0.54
07 73 00 00-0014	SF		1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	3.95	0.59
07 73 00 00-0015	SF		5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	4.19	0.64
07 73 00 00-0016			Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001) Note: Mechanically fastened to wood or steel.		
07 73 00 00-0017	SF		1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.24	0.54
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0018	SF		1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.69	0.59
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.50	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.38	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0019	SF		5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®).....	3.91	0.64
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.43	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0020	SF		1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.29	0.54
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0021	SF		1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.76	0.59
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.50	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.38	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 73 00 00-0022	SF		5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.98	0.64
			<i>For Mechanically Fastened To Concrete, Add</i>	1.43	
			<i>For Mechanically Fastened To Gypsum, Add</i>	1.75	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.50	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.55	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	0.76	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.43	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.07	
07 76 Roof Pavers (07 70)					
07 76 16 Roof Decking Pavers (07 76)					
07 76 16 00-0001			Roof Pavers (07 76 16) Note: For walkway application over roofing system.		
07 76 16 00-0002	SF		Up To 100 SF, 2" Concrete Roof Paver	13.30	6.86
			<i>For 1-1/2" Thickness, Deduct</i>	-1.33	
			<i>For 2-1/2" Thickness, Add</i>	1.55	
			<i>For 3" Thickness, Add</i>	3.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 76 16 00-0003 SF >100 To 200 SF, 2" Concrete Roof Paver	12.02	5.16
<i>For 1-1/2" Thickness, Deduct</i>	-1.20	
<i>For 2-1/2" Thickness, Add</i>	1.41	
<i>For 3" Thickness, Add</i>	2.82	
07 76 16 00-0004 SF >200 To 400 SF, 2" Concrete Roof Paver	11.26	4.12
<i>For 1-1/2" Thickness, Deduct</i>	-1.13	
<i>For 2-1/2" Thickness, Add</i>	1.32	
<i>For 3" Thickness, Add</i>	2.64	
07 76 16 00-0005 SF >400 To 1,000 SF, 2" Concrete Roof Paver	10.78	3.59
<i>For 1-1/2" Thickness, Deduct</i>	-1.08	
<i>For 2-1/2" Thickness, Add</i>	1.26	
<i>For 3" Thickness, Add</i>	2.52	
07 76 16 00-0006 SF >1,000 SF, 2" Concrete Roof Paver	10.17	3.27
<i>For 1-1/2" Thickness, Deduct</i>	-1.02	
<i>For 2-1/2" Thickness, Add</i>	1.19	
<i>For 3" Thickness, Add</i>	2.38	
07 76 16 00-0007 Roof Paver Pedestal <small>(07 76 16)</small>		
07 76 16 00-0008 EA 2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator)	21.41	1.07
07 76 16 00-0009 EA 3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator)	22.48	1.07
07 76 16 00-0010 EA 4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator)	23.56	1.07
07 76 16 00-0011 EA Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator)	11.83	1.07
07 76 16 00-0012 EA Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator)	10.77	1.07
07 76 16 00-0013 EA 5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal)	11.02	1.07
Note: Stackable.		
07 76 16 00-0014 EA 1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal	6.18	1.07
Note: Used with High Tab and Elevator pedestals.		
07 76 16 00-0015 EA Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator)	8.36	1.07
Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.		
07 76 19 Composite Insulation Concrete Protection Board <small>(07 76)</small>		
Note: Manufactured by T. Clear Corp. 25 year warranty.		
07 76 19 00-0001 Composite Insulation Concrete Protection Board <small>(07 76 19)</small>		
Note: Manufactured by T. Clear Corp. 25 year warranty.		
07 76 19 00-0002 SF 2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF	5.08	
<i>For 20 Year Warranty, Deduct</i>	-0.29	
<i>For 15 Year Warranty, Deduct</i>	-0.58	
<i>For 10 Year Warranty, Deduct</i>	-0.79	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0003 SF 3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF	6.60	
<i>For 20 Year Warranty, Deduct</i>	-0.41	
<i>For 15 Year Warranty, Deduct</i>	-0.83	
<i>For 10 Year Warranty, Deduct</i>	-1.13	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0004 SF 2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	7.75	
<i>For 20 Year Warranty, Deduct</i>	-0.48	
<i>For 15 Year Warranty, Deduct</i>	-0.96	
<i>For 10 Year Warranty, Deduct</i>	-1.30	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0005 SF 3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	9.35	
<i>For 20 Year Warranty, Deduct</i>	-0.60	
<i>For 15 Year Warranty, Deduct</i>	-1.21	
<i>For 10 Year Warranty, Deduct</i>	-1.64	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 80 Fire and Smoke Protection <small>(07)</small>		
07 81 Applied Fireproofing <small>(07 80)</small>		
Note: Includes bonding agents as required.		
07 81 16 Cementitious Fireproofing <small>(07 81)</small>		
07 81 16 00-0001 Monokote Fireproofing <small>(07 81 16)</small>		
07 81 16 00-0002 SF Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness	1.99	0.72
07 81 16 00-0003 SF Monokote Fireproofing For Structural Steel, Per Inch Of Thickness	2.80	1.07
07 81 16 00-0004 Gunitite Fireproofing <small>(07 81 16)</small>		
07 81 16 00-0005 SF 1" Thick, Non Reinforced, Gunitite Fireproofing	3.15	0.73
07 81 16 00-0006 SF 1" Thick, Reinforced, Gunitite Fireproofing	4.45	0.73
07 81 23 Intumescent Fireproofing <small>(07 81)</small>		
07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) <small>(07 81 23)</small>		
07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) <small>(07 81 23 00-0001)</small>		
Note: Excludes primer.		
07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	14.22	
<i>For >10,000, Deduct</i>	-1.36	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 81 Applied Fireproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) <i>For >10,000, Deduct</i>	22.77 -2.21	
07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) (07 81 23 00-0001) Note: Excludes primer.		
07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	9.30 -0.86	
07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	20.43 -1.97	
07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	46.03 -4.52	
07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	63.31 -6.25	
07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	80.59 -7.97	
07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	97.90 -9.70	
07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) (07 81 23 00-0001) Note: Excludes primer.		
07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	18.62 -1.79	
07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	34.47 -3.37	
07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	54.63 -5.38	
07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	76.23 -7.54	
07 81 23 00-0017 SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) <i>For >10,000, Deduct</i>	96.38 -9.55	
07 81 23 00-0018 Intumescent Thin Film Fireproofing (Albi Clad FP) (07 81 23)		
07 81 23 00-0019 Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) (07 81 23 00-0018) Note: Excludes primer.		
07 81 23 00-0020 SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	9.06 -0.86	
07 81 23 00-0021 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	20.51 -2.00	
07 81 23 00-0022 SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	46.88 -4.63	
07 81 23 00-0023 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	64.66 -6.40	
07 81 23 00-0024 SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <i>For >10,000, Deduct</i>	82.46 -8.18	
07 81 33 Mineral-Fiber Fireproofing (07 81)		
07 81 33 00-0001 Cellulose Fireproofing (07 81 33)		
07 81 33 00-0002 SF Cellulose Fireproofing, Per Inch Of Thickness.....	2.48	0.73
07 84 Firestopping (07 80)		
07 84 13 Penetration Firestopping (07 84)		
07 84 13 16 Penetration Firestopping Devices (07 84 13)		
07 84 13 16-0001 Firestopping Systems For Cable Penetrations (07 84 13 16)		
07 84 13 16-0002 Intumescent Firestop Cable Sleeve For New Installations (07 84 13 16-0001) Note: Includes putty, escutcheon plates, gaskets and bushings.		
07 84 13 16-0003 EA 1" Diameter Intumescent Firestop Sleeve (STI FS100)	60.74	
07 84 13 16-0004 EA 2" Diameter Intumescent Firestop Sleeve (STI FS201)	80.30	
07 84 13 16-0005 EA 4" Diameter Intumescent Firestop Sleeve (STI FS401)	127.88	
07 84 13 16-0006 Intumescent Firestop Cable Pathway For New Or Existing Cable Installations (07 84 13 16-0001) Note: Includes pathway, putty and wall/floor mounting plates.		
07 84 13 16-0007 EA 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22)	107.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 16-0008 EA 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS)	185.88	
07 84 13 16-0009 EA 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44)	337.39	
07 84 13 16-0010 3M Intumescent Firestopping Multi-Trade Pass Through Device (07 84 13 16)		
07 84 13 16-0011 EA 2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	242.07	
07 84 13 16-0012 EA 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	224.79	
07 84 13 16-0013 EA 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	231.35	
07 84 13 16-0014 Intumescent Firestopping Pipe Collar (07 84 13 16)		
07 84 13 16-0015 EA 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	43.20	14.09
07 84 13 16-0016 EA 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	50.44	14.09
07 84 13 16-0017 EA 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	58.17	15.50
07 84 13 16-0018 EA 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	87.26	17.61
07 84 13 16-0019 EA 8" Intumescent Firestop Pipe Collar (Hilti CP644 8")	391.55	21.13
07 84 13 16-0020 EA 10" Intumescent Firestop Pipe Collar (Hilti CP644 10")	503.56	23.24
07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) (07 84 13 16)		
Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.		
07 84 13 16-0022 EA 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9)	154.66	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0023 EA 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9)	163.13	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0024 EA 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)	310.95	
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.		
07 84 13 16-0025 EA 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3)	200.36	
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.		
07 84 13 16-0026 Intumescent Firestopping Wrap Strips (07 84 13 16)		
07 84 13 16-0027 LF 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series)	5.90	
07 84 13 19 Penetration Firestopping Caulk (07 84 13)		
07 84 13 19-0001 Intumescent Firestopping For Sealing Pipe Penetrations (07 84 13 19)		
Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.		
07 84 13 19-0002 EA 1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	23.56	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.06	
07 84 13 19-0003 EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.92	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.33	
07 84 13 19-0004 EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.71	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.24	
07 84 13 19-0005 EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	28.37	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.11	
07 84 13 19-0006 EA 2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	33.38	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.70	
07 84 13 19-0007 EA 2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	33.16	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.62	
07 84 13 19-0008 EA 2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	32.82	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.48	
07 84 13 19-0009 EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	32.29	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.27	
07 84 13 19-0010 EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	31.83	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.08	
07 84 13 19-0011 EA 2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	40.41	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.18	
07 84 13 19-0012 EA 2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	40.20	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.10	
07 84 13 19-0013 EA 2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	39.85	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.96	
07 84 13 19-0014 EA 2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	39.32	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.74	
07 84 13 19-0015 EA 2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	38.87	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.56	
07 84 13 19-0016 EA 2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	37.78	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.13	
07 84 13 19-0017 EA 3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	54.77	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	3.18	
07 84 13 19-0018 EA 3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	51.04	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.68	
07 84 13 19-0019 EA 3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	50.69	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.54	
07 84 13 19-0020 EA 3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	50.15	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.33	
07 84 13 19-0021 EA 3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+)	49.70	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.15	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0022	EA		3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....48.62 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 0.72		
07 84 13 19-0023	EA		3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....47.22 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 0.16		
07 84 13 19-0024	EA		4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....73.20 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 5.86		
07 84 13 19-0025	EA		4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....72.82 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 5.71		
07 84 13 19-0026	EA		4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....72.20 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 5.46		
07 84 13 19-0027	EA		4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....71.23 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 5.08		
07 84 13 19-0028	EA		4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....70.41 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 4.75		
07 84 13 19-0029	EA		4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....64.05 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 2.20		
07 84 13 19-0030	EA		4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....62.66 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 1.65		
07 84 13 19-0031	EA		4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....60.54 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 0.80		
07 84 13 19-0032	EA		6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....115.78 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 13.53		
07 84 13 19-0033	EA		6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....115.40 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 13.38		
07 84 13 19-0034	EA		6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....114.78 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 13.13		
07 84 13 19-0035	EA		6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....113.82 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 12.74		
07 84 13 19-0036	EA		6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....113.00 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 12.42		
07 84 13 19-0037	EA		6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....111.05 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 11.64		
07 84 13 19-0038	EA		6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....108.54 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 10.63		
07 84 13 19-0039	EA		6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....104.72 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 9.10		
07 84 13 19-0040	EA		6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....90.35 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 3.36		
07 84 13 19-0041	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....152.92 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 21.36		
07 84 13 19-0042	EA		8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....149.10 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 19.84		
07 84 13 19-0043	EA		8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....141.43 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 16.77		
07 84 13 19-0044	EA		8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....110.18 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 4.27		
07 84 13 19-0045	EA		10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....193.49 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 30.57		
07 84 13 19-0046	EA		10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....170.77 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 21.48		
07 84 13 19-0047	EA		10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) .....130.66 <i>For Intumescent Sealant For Plastic Pipe, Add</i> 5.44		

07 84 13 19-0048 Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations (07 84 13 19)

Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.

07 84 13 19-0049	EA		1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....28.38		
07 84 13 19-0050	EA		1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....28.30		
07 84 13 19-0051	EA		1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....28.19		
07 84 13 19-0052	EA		2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....32.21		
07 84 13 19-0053	EA		2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....32.13		
07 84 13 19-0054	EA		2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....32.02		
07 84 13 19-0055	EA		2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....31.85		
07 84 13 19-0056	EA		2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....31.70		
07 84 13 19-0057	EA		2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....38.47		
07 84 13 19-0058	EA		2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....38.40		
07 84 13 19-0059	EA		2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....38.29		
07 84 13 19-0060	EA		2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....38.12		
07 84 13 19-0061	EA		2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....37.98		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0062	EA	2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	37.60	
07 84 13 19-0063	EA	3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.33	
07 84 13 19-0064	EA	3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.26	
07 84 13 19-0065	EA	3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	48.15	
07 84 13 19-0066	EA	3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.98	
07 84 13 19-0067	EA	3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.83	
07 84 13 19-0068	EA	3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	47.46	
07 84 13 19-0069	EA	3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	46.95	
07 84 13 19-0070	EA	4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.34	
07 84 13 19-0071	EA	4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.26	
07 84 13 19-0072	EA	4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	61.15	
07 84 13 19-0073	EA	4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.97	
07 84 13 19-0074	EA	4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.79	
07 84 13 19-0075	EA	4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	60.42	
07 84 13 19-0076	EA	4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	59.95	
07 84 13 19-0077	EA	4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	59.21	
07 84 13 19-0078	EA	6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.41	
07 84 13 19-0079	EA	6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.33	
07 84 13 19-0080	EA	6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.22	
07 84 13 19-0081	EA	6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	88.05	
07 84 13 19-0082	EA	6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.91	
07 84 13 19-0083	EA	6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.53	
07 84 13 19-0084	EA	6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	87.02	
07 84 13 19-0085	EA	6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	86.32	
07 84 13 19-0086	EA	6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	84.81	
07 84 13 19-0087	EA	8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	109.70	
07 84 13 19-0088	EA	8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	108.99	
07 84 13 19-0089	EA	8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	107.48	
07 84 13 19-0090	EA	8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	103.20	
07 84 13 19-0091	EA	10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	131.65	
07 84 13 19-0092	EA	10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	127.36	
07 84 13 19-0093	EA	10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	121.70	

07 84 16 Annular Space Firestopping Protection (07 84)

07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)

07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)

07 84 16 00-0003	EA	1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	34.90	
07 84 16 00-0004	EA	2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	48.74	
07 84 16 00-0005	EA	3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	51.08	
07 84 16 00-0006	EA	4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	53.42	
07 84 16 00-0007	EA	5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	55.76	
07 84 16 00-0008	EA	6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	69.61	

07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)

07 84 16 00-0010	EA	Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	14.48	
07 84 16 00-0011	EA	Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	14.97	
07 84 16 00-0012	EA	Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	14.07	
07 84 16 00-0013	EA	Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	15.00	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 16 00-0014	EA		Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	14.64	
07 84 16 00-0015	EA		Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	14.13	
07 84 16 00-0016			Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)		
07 84 16 00-0017	EA		2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	33.14	
07 84 16 00-0018	EA		2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	35.50	
07 84 16 00-0019	EA		3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	38.41	
07 84 16 00-0020			Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)		
			Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.		
07 84 16 00-0021	EA		16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	310.23	
07 84 16 00-0022	EA		36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	431.10	
07 84 16 00-0023	EA		36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	578.10	
07 84 16 00-0024			Endothermic Mat Wrap Fire Barrier (07 84 16)		
			Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.		
07 84 16 00-0025	SF		0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	47.98	
07 84 16 00-0026			Firestopping Caulk For Filling Opening (07 84 16)		
07 84 16 00-0027	GAL		Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	173.12	
07 84 16 00-0028			Firestopping Mortar For Filling Opening (07 84 16)		
07 84 16 00-0029	CF		Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	152.19	
07 84 23			Silicone Firestopping Foams (07 84)		
07 84 23 00-0001			Silicone RTV Foam Seal For Blank Openings (07 84 23)		
07 84 23 00-0002	EA		2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	44.12	
07 84 23 00-0003	EA		4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	104.55	
07 84 23 00-0004	EA		6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	183.33	
07 84 23 00-0005	EA		8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	277.92	
07 84 23 00-0006	EA		10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	394.24	
07 84 23 00-0007	EA		12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	526.49	
07 84 43			Joint Firestopping (07 84)		
07 84 43 00-0001			Intumescent Firestopping Sealant For Joints (3M CP 25WB+) (07 84 43)		
07 84 43 00-0002	CLF		1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	397.47	105.37
			For Up To 6 CLF, Add	21.91	
			For >30 CLF, Deduct	-23.94	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	12.20	
07 84 43 00-0003	CLF		1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	438.18	105.37
			For Up To 4 CLF, Add	24.96	
			For >20 CLF, Deduct	-28.01	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	18.31	
07 84 43 00-0004	CLF		1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	490.57	108.88
			For Up To 3 CLF, Add	28.60	
			For >15 CLF, Deduct	-32.67	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	24.41	
07 84 43 00-0005	CLF		3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	510.91	108.88
			For Up To 2.5 CLF, Add	30.12	
			For >13 CLF, Deduct	-34.70	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	27.47	
07 84 43 00-0006	CLF		3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	571.95	108.88
			For Up To 2 CLF, Add	34.70	
			For >10 CLF, Deduct	-40.80	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	36.62	
07 84 43 00-0007	CLF		3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	632.98	108.88
			For Up To 1.5 CLF, Add	39.28	
			For >8 CLF, Deduct	-46.91	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	45.78	
07 84 43 00-0008	CLF		3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	705.73	113.56
			For Up To 1.3 CLF, Add	44.44	
			For >7 CLF, Deduct	-53.60	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	54.93	
07 84 43 00-0009	CLF		1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	665.04	113.56
			For Up To 1.4 CLF, Add	41.39	
			For >7.5 CLF, Deduct	-49.53	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	48.83	
07 84 43 00-0010	CLF		1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+).....	758.13	117.07
			For Up To 1.15 CLF, Add	48.08	
			For >6 CLF, Deduct	-58.25	
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	61.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0011 CLF 1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	839.51 54.18 -66.39 73.24	117.07
07 84 43 00-0012 CLF 1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	932.60 60.87 -75.11 85.45	120.58
07 84 43 00-0013 CLF 1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,025.67 67.56 -83.84 97.65	125.27
07 84 43 00-0014 CLF 3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,118.76 74.25 -92.56 109.86	128.78
07 84 43 00-0015 CLF 3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,398.02 94.31 -118.73 146.48	140.49
07 84 43 00-0016 CLF 1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+) <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,770.38 121.07 -153.62 195.31	155.71
07 84 43 00-0017 Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series) ^(07 84 43)		
07 84 43 00-0018 CLF 1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	408.80 22.76 -25.07	105.37
07 84 43 00-0019 CLF 1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	455.15 26.23 -29.71	105.37
07 84 43 00-0020 CLF 1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	513.20 30.29 -34.93	108.88
07 84 43 00-0021 CLF 3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	536.37 32.03 -37.25	108.88
07 84 43 00-0022 CLF 3/8" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	605.89 37.25 -44.20	108.88
07 84 43 00-0023 CLF 3/8" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	675.41 42.46 -51.15	108.88
07 84 43 00-0024 CLF 3/8" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	756.64 48.26 -58.69	113.56
07 84 43 00-0025 CLF 1/2" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	710.30 44.78 -54.05	113.56
07 84 43 00-0026 CLF 1/2" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	814.70 52.32 -63.91	117.07
07 84 43 00-0027 CLF 1/2" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	907.39 59.27 -73.18	117.07
07 84 43 00-0028 CLF 1/2" x 7/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	1,011.80 66.81 -83.03	120.58
07 84 43 00-0029 CLF 1/2" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	1,116.19 74.35 -92.89	125.27
07 84 43 00-0030 CLF 3/4" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	1,220.60 81.89 -102.74	128.78
07 84 43 00-0031 CLF 3/4" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	1,533.80 104.50 -132.31	140.49
07 84 43 00-0032 CLF 1" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series) <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i>	1,951.41 134.65 -171.73	155.71
07 84 43 00-0033 Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) ^(07 84 43)		
07 84 43 00-0034 CLF 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	364.06 19.40 -20.60	105.37
07 84 43 00-0035 CLF 1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	388.03 21.20 -23.00	105.37

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0036	CLF	1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	423.70	108.88
		<i>For Up To 3 CLF, Add</i>		23.58	
		<i>For >15 CLF, Deduct</i>		-25.98	
07 84 43 00-0037	CLF	3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	435.69	108.88
		<i>For Up To 2.5 CLF, Add</i>		24.48	
		<i>For >13 CLF, Deduct</i>		-27.18	
07 84 43 00-0038	CLF	3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	471.65	108.88
		<i>For Up To 2 CLF, Add</i>		27.18	
		<i>For >10 CLF, Deduct</i>		-30.77	
07 84 43 00-0039	CLF	3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	507.60	108.88
		<i>For Up To 1.5 CLF, Add</i>		29.87	
		<i>For >8 CLF, Deduct</i>		-34.37	
07 84 43 00-0040	CLF	3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	555.27	113.56
		<i>For Up To 1.3 CLF, Add</i>		33.16	
		<i>For >7 CLF, Deduct</i>		-38.55	
07 84 43 00-0041	CLF	1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	531.30	113.56
		<i>For Up To 1.4 CLF, Add</i>		31.36	
		<i>For >7.5 CLF, Deduct</i>		-36.15	
07 84 43 00-0042	CLF	1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	590.96	117.07
		<i>For Up To 1.15 CLF, Add</i>		35.54	
		<i>For >6 CLF, Deduct</i>		-41.53	
07 84 43 00-0043	CLF	1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	638.90	117.07
		<i>For Up To 1 CLF, Add</i>		39.14	
		<i>For >5 CLF, Deduct</i>		-46.33	
07 84 43 00-0044	CLF	1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	698.56	120.58
		<i>For Up To 0.8 CLF, Add</i>		43.32	
		<i>For >4.5 CLF, Deduct</i>		-51.71	
07 84 43 00-0045	CLF	1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	758.20	125.27
		<i>For Up To 0.75 CLF, Add</i>		47.50	
		<i>For >4 CLF, Deduct</i>		-57.09	
07 84 43 00-0046	CLF	3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	817.86	128.78
		<i>For Up To 0.65 CLF, Add</i>		51.68	
		<i>For >3.5 CLF, Deduct</i>		-62.47	
07 84 43 00-0047	CLF	3/4" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	996.81	140.49
		<i>For Up To 0.5 CLF, Add</i>		64.22	
		<i>For >2.5 CLF, Deduct</i>		-78.61	
07 84 43 00-0048	CLF	1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	.....	1,235.43	155.71
		<i>For Up To 0.4 CLF, Add</i>		80.95	
		<i>For >2 CLF, Deduct</i>		-100.13	

07 84 56 Fire Safing (07 84)**07 84 56 13 Fibrous Fire Safing (07 84 56)****07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)**

Note: Includes cutting wrap to fit pipe or conduit and sealing edges.

07 84 56 13-0002	SF	1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A)	.....	10.61	
		<i>For Work In Restricted Working Space, Add</i>		1.64	
07 84 56 13-0003	SF	1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A)	.....	16.15	
		Note: Includes cutting wrap to fit pipe or conduit and sealing edges.			
		<i>For Work In Restricted Working Space, Add</i>		1.64	
07 84 56 13-0004	SF	2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A)	.....	17.48	
		Note: Includes cutting wrap to fit pipe or conduit and sealing edges.			
		<i>For Work In Restricted Working Space, Add</i>		1.64	

07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)

07 84 56 13-0006	SF	1/2" Thermal Ceramics FireMaster Blanket Wrap	.....	19.21	11.68
		<i>For Work In Restricted Working Space, Add</i>		4.69	
		<i>For >500 To 5,000, Deduct</i>		-1.60	
		<i>For >5,000, Deduct</i>		-2.88	
07 84 56 13-0007	SF	1" Thermal Ceramics FireMaster Blanket Wrap	.....	22.17	11.68
		<i>For Work In Restricted Working Space, Add</i>		4.69	
		<i>For >500 To 5,000, Deduct</i>		-2.28	
		<i>For >5,000, Deduct</i>		-3.98	
07 84 56 13-0008	SF	1-1/2" Thermal Ceramics FireMaster Blanket Wrap	.....	25.41	11.68
		<i>For Work In Restricted Working Space, Add</i>		4.69	
		<i>For >500 To 5,000, Deduct</i>		-3.03	
		<i>For >5,000, Deduct</i>		-5.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 56 13-0009 SF 2" Thermal Ceramics FireMaster Blanket Wrap..... <i>For Work In Restricted Working Space, Add</i> <i>For >500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	28.66 4.69 -3.78 -6.38	11.68

07 90 Joint Protection⁽⁰⁷⁾

07 91 Preformed Joint Seals^(07 90)

07 91 23 Backer Rods^(07 91)

07 91 23 00-0001 Backer Rods^(07 91 23)

07 91 23 00-0002 LF 1/4" Polyethylene Or Polyurethane Backer Rod	1.74	0.54
07 91 23 00-0003 LF 3/8" Polyethylene Or Polyurethane Backer Rod	1.86	0.54
07 91 23 00-0004 LF 1/2" Polyethylene Or Polyurethane Backer Rod	2.01	0.54
07 91 23 00-0005 LF 5/8" Polyethylene Or Polyurethane Backer Rod	2.16	0.54
07 91 23 00-0006 LF 3/4" Polyethylene Or Polyurethane Backer Rod	2.24	0.64
07 91 23 00-0007 LF 7/8" Polyethylene Or Polyurethane Backer Rod	2.37	0.64
07 91 23 00-0008 LF 1" Polyethylene Or Polyurethane Backer Rod	2.63	0.64
07 91 23 00-0009 LF 1-1/4" Polyethylene Or Polyurethane Backer Rod	2.92	0.75
07 91 23 00-0010 LF 1-1/2" Polyethylene Or Polyurethane Backer Rod	3.27	0.86
07 91 23 00-0011 LF 2" Polyethylene Or Polyurethane Backer Rod	3.90	0.96
07 91 23 00-0012 LF 3" Polyethylene Or Polyurethane Backer Rod	6.07	1.19

07 91 26 Joint Fillers^(07 91)

07 91 26 00-0001 Butyl Rubber Fillers^(07 91 26)

07 91 26 00-0002 LF 1/4" x 1/4" Butyl Rubber Filler	2.42	0.64
<i>For Custom Match Coloring, Add</i>	0.04	
07 91 26 00-0003 LF 1/2" x 1/2" Butyl Rubber Filler	7.23	1.83
<i>For Custom Match Coloring, Add</i>	0.15	
07 91 26 00-0004 LF 1/2" x 3/4" Butyl Rubber Filler	8.69	1.94
<i>For Custom Match Coloring, Add</i>	0.24	
07 91 26 00-0005 LF 3/4" x 3/4" Butyl Rubber Filler	9.38	2.04
07 91 26 00-0006 LF 1" x 1" Butyl Rubber Filler	12.39	3.77

07 91 26 00-0007 Closed Cell Neoprene^(07 91 26)

07 91 26 00-0008 CLF 1/8" x 3" Neoprene Gasket Closed Cell, Adhesive	426.61	124.08
07 91 26 00-0009 CLF 1/8" x 6" Neoprene Gasket Closed Cell, Adhesive	675.80	179.24
07 91 26 00-0010 CLF 1/4" x 3" Neoprene Gasket Closed Cell, Adhesive	544.44	153.65
07 91 26 00-0011 CLF 1/4" x 6" Neoprene Gasket Closed Cell, Adhesive	620.43	161.28
07 91 26 00-0012 CLF 1/2" x 6" Neoprene Gasket Closed Cell, Adhesive	947.31	248.16
07 91 26 00-0013 CLF 1/2" x 9" Neoprene Gasket Closed Cell, Adhesive	1,077.63	268.79
07 91 26 00-0014 CLF 1/2" x 12" Neoprene Gasket Closed Cell, Adhesive	953.94	195.47

07 91 26 00-0015 Closed Cell Polyvinyl Chloride^(07 91 26)

07 91 26 00-0016 CLF 1/8" x 3" Polyethylene Joint Backing, Closed Cell	433.14	153.65
07 91 26 00-0017 CLF 1/8" x 6" Polyethylene Joint Backing, Closed Cell	715.01	248.16
07 91 26 00-0018 CLF 1/4" x 3" Polyethylene Joint Backing, Closed Cell	561.14	211.82
07 91 26 00-0019 CLF 1/4" x 6" Polyethylene Joint Backing, Closed Cell	661.81	223.64
07 91 26 00-0020 CLF 1/2" x 6" Polyethylene Joint Backing, Closed Cell	1,008.67	342.99
07 91 26 00-0021 CLF 1/2" x 9" Polyethylene Joint Backing, Closed Cell	1,168.39	372.23
07 91 26 00-0022 CLF 1/2" x 12" Polyethylene Joint Backing, Closed Cell	1,527.38	446.20

07 91 26 00-0023 Silicon RTV Foam Penetration Seal^(07 91 26)

07 91 26 00-0024 CLF 1/4" x 1/2" Silicon RTV Foam Seal	151.91	24.63
07 91 26 00-0025 CLF 1/2" x 1/2" Silicon RTV Foam Seal	303.81	49.13
07 91 26 00-0026 CLF 1/2" x 3/4" Silicon RTV Foam Seal	452.94	73.01
07 91 26 00-0027 CLF 3/4" x 3/4" Silicon RTV Foam Seal	642.65	98.38
07 91 26 00-0028 CLF 1/8" x 1" Silicon RTV Foam Seal	151.91	24.63
07 91 26 00-0029 CLF 1/8" x 3" Silicon RTV Foam Seal	452.51	72.80
07 91 26 00-0030 CLF 1/4" x 3" Silicon RTV Foam Seal	784.01	109.34
07 91 26 00-0031 CLF 1/4" x 6" Silicon RTV Foam Seal	1,566.09	217.94
07 91 26 00-0032 CLF 1/2" x 6" Silicon RTV Foam Seal	2,984.06	393.42
07 91 26 00-0033 CLF 1/2" x 9" Silicon RTV Foam Seal	4,555.17	614.58
07 91 26 00-0034 CLF 1/2" x 12" Silicon RTV Foam Seal	6,636.41	983.37

07 91 26 00-0035 Seals O-Ring Type Cord "J-Seal"^(07 91 26)

07 91 26 00-0036 LF 1/4" Seals O-Ring Cord, J-Seal	4.59	1.40
07 91 26 00-0037 LF 1/2" Seals O-Ring Cord, J-Seal	4.86	1.40
07 91 26 00-0038 LF 3/4" Seals O-Ring Cord, J-Seal	5.10	1.51
07 91 26 00-0039 LF 1" Seals O-Ring Cord, J-Seal	5.37	1.62
07 91 26 00-0040 LF 1-1/4" Seals O-Ring Cord, J-Seal	5.74	1.72
07 91 26 00-0041 LF 1-1/2" Seals O-Ring Cord, J-Seal	6.00	1.72
07 91 26 00-0042 LF 1-3/4" Seals O-Ring Cord, J-Seal	6.35	1.83

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Prefomed Joint Seals**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 26 00-0043	LF		2" Seals O-Ring Cord, J-Seal	6.55	1.83
07 91 33			Expansion Joint Seal Systems (07 91)		
07 91 33 00-0001			Expansion Joint Seal Systems (Wabo®) (07 91 33)		
07 91 33 00-0002			Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)		
			Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.		
07 91 33 00-0003	LF		1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	80.18	7.43
07 91 33 00-0004	LF		3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	106.48	7.78
07 91 33 00-0005	LF		1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH)	134.23	8.13
07 91 33 00-0006	LF		1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	165.08	8.49
07 91 33 00-0007	LF		1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	213.38	8.84
07 91 33 00-0008	LF		1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	244.74	9.20
07 91 33 00-0009	LF		2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH)	283.63	9.55
07 91 33 00-0010			Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
			Note: Includes prefomed neoprene joint seal and lubricant adhesive.		
07 91 33 00-0011	LF		0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	42.29	7.43
07 91 33 00-0012	LF		0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	45.95	7.53
07 91 33 00-0013	LF		0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	55.03	7.65
07 91 33 00-0014	LF		0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	58.29	7.78
07 91 33 00-0015	LF		1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	62.14	7.89
07 91 33 00-0016	LF		1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	75.58	7.99
07 91 33 00-0017	LF		1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350)	92.63	8.13
07 91 33 00-0018	LF		1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400)	109.17	8.49
07 91 33 00-0019	LF		1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500)	123.33	8.84
07 91 33 00-0020			Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
			Note: Includes prefomed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021	LF		0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100)	35.83	7.43
07 91 33 00-0022	LF		0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225)	45.90	7.78
07 91 33 00-0023	LF		1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250)	55.81	8.13
07 91 33 00-0024	LF		1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300)	58.84	8.32
07 91 33 00-0025	LF		1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400)	65.02	8.49
07 91 33 00-0026	LF		1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500)	92.09	8.84
07 91 33 00-0027	LF		1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600)	125.55	9.20
07 91 33 00-0028			Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001)		
			Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029	LF		1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100)	29.29	2.94
07 91 33 00-0030	LF		3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150)	48.72	3.07
07 91 33 00-0031	LF		1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200)	73.04	3.19
07 91 33 00-0032	LF		1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250)	91.95	3.30
07 91 33 00-0033	LF		1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300)	120.81	3.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0034 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350).....	159.62	3.53
07 91 33 00-0035 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....	195.63	3.66
07 91 33 00-0036 LF 2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500).....	263.58	3.78
07 91 33 00-0037 LF 3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....	307.62	3.89
07 91 33 00-0038 Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001)		
Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039 LF 0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....	28.59	2.94
07 91 33 00-0040 LF 1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....	37.55	3.07
07 91 33 00-0041 LF 1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....	50.18	3.19
07 91 33 00-0042 LF 1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....	67.86	3.30
07 91 33 00-0043 LF 2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....	77.35	3.42
07 91 33 00-0044 LF 2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	107.09	3.53
07 91 33 00-0045 LF 3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	143.62	3.66
07 91 33 00-0046 LF 3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Preformed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	155.02	3.78

07 92 Joint Sealants (07 90)

07 92 13 Elastomeric Joint Sealants (07 92)

07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)

07 92 13 00-0002 CLF 1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	352.76	105.37
<i>For Custom Match Coloring, Add</i>		
	8.80	
<i>For Up To 6 CLF, Add</i>		
	18.55	
<i>For >30 CLF, Deduct</i>		
	-19.47	
<i>For 1 Part Mildew Resistant, Add</i>		
	12.83	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	7.33	
07 92 13 00-0003 CLF 1/4" x 3/8" Joint, Silicone Sealant And Caulking.....	371.09	105.37
<i>For Custom Match Coloring, Add</i>		
	13.20	
<i>For Up To 4 CLF, Add</i>		
	19.93	
<i>For >20 CLF, Deduct</i>		
	-21.30	
<i>For 1 Part Mildew Resistant, Add</i>		
	19.24	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	11.00	
07 92 13 00-0004 CLF 1/4" x 1/2" Joint, Silicone Sealant And Caulking.....	401.12	108.88
<i>For Custom Match Coloring, Add</i>		
	17.59	
<i>For Up To 3 CLF, Add</i>		
	21.89	
<i>For >15 CLF, Deduct</i>		
	-23.72	
<i>For 1 Part Mildew Resistant, Add</i>		
	25.66	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	14.66	
07 92 13 00-0005 CLF 3/8" x 3/8" Joint, Silicone Sealant And Caulking.....	410.28	108.88
<i>For Custom Match Coloring, Add</i>		
	19.79	
<i>For Up To 2.5 CLF, Add</i>		
	22.58	
<i>For >13 CLF, Deduct</i>		
	-24.64	
<i>For 1 Part Mildew Resistant, Add</i>		
	28.86	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	16.49	
07 92 13 00-0006 CLF 3/8" x 1/2" Joint, Silicone Sealant And Caulking.....	437.77	108.88
<i>For Custom Match Coloring, Add</i>		
	26.39	
<i>For Up To 2 CLF, Add</i>		
	24.64	
<i>For >10 CLF, Deduct</i>		
	-27.39	
<i>For 1 Part Mildew Resistant, Add</i>		
	38.49	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	21.99	
07 92 13 00-0007 CLF 3/8" x 5/8" Joint, Silicone Sealant And Caulking.....	465.26	108.88
<i>For Custom Match Coloring, Add</i>		
	32.99	
<i>For Up To 1.5 CLF, Add</i>		
	26.70	
<i>For >8 CLF, Deduct</i>		
	-30.14	
<i>For 1 Part Mildew Resistant, Add</i>		
	48.11	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	27.49	
07 92 13 00-0008 CLF 3/8" x 3/4" Joint, Silicone Sealant And Caulking.....	504.46	113.56
<i>For Custom Match Coloring, Add</i>		
	39.59	
<i>For Up To 1.3 CLF, Add</i>		
	29.35	
<i>For >7 CLF, Deduct</i>		
	-33.47	
<i>For 1 Part Mildew Resistant, Add</i>		
	57.73	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	32.99	
07 92 13 00-0009 CLF 1/2" x 1/2" Joint, Silicone Sealant And Caulking.....	486.14	113.56
<i>For Custom Match Coloring, Add</i>		
	35.19	
<i>For Up To 1.4 CLF, Add</i>		
	27.97	
<i>For >7.5 CLF, Deduct</i>		
	-31.64	
<i>For 1 Part Mildew Resistant, Add</i>		
	51.32	
<i>For High-Modulus Non-Acid Curing, Add</i>		
	29.32	

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0010	CLF		1/2" x 5/8" Joint, Silicone Sealant And Caulking	534.50	117.07
			<i>For Custom Match Coloring, Add</i>	43.98	
			<i>For Up To 1.15 CLF, Add</i>	31.31	
			<i>For >6 CLF, Deduct</i>	-35.89	
			<i>For 1 Part Mildew Resistant, Add</i>	64.14	
			<i>For High-Modulus Non-Acid Curing, Add</i>	36.65	
07 92 13 00-0011	CLF		1/2" x 3/4" Joint, Silicone Sealant And Caulking	571.15	117.07
			<i>For Custom Match Coloring, Add</i>	52.78	
			<i>For Up To 1 CLF, Add</i>	34.06	
			<i>For >5 CLF, Deduct</i>	-39.55	
			<i>For 1 Part Mildew Resistant, Add</i>	76.97	
			<i>For High-Modulus Non-Acid Curing, Add</i>	43.98	
07 92 13 00-0012	CLF		1/2" x 7/8" Joint, Silicone Sealant And Caulking	619.52	120.58
			<i>For Custom Match Coloring, Add</i>	61.58	
			<i>For Up To 0.8 CLF, Add</i>	37.39	
			<i>For >4.5 CLF, Deduct</i>	-43.81	
			<i>For 1 Part Mildew Resistant, Add</i>	89.80	
			<i>For High-Modulus Non-Acid Curing, Add</i>	51.32	
07 92 13 00-0013	CLF		1/2" x 1" Joint, Silicone Sealant And Caulking	667.87	125.27
			<i>For Custom Match Coloring, Add</i>	70.38	
			<i>For Up To 0.75 CLF, Add</i>	40.72	
			<i>For >4 CLF, Deduct</i>	-48.06	
			<i>For 1 Part Mildew Resistant, Add</i>	102.63	
			<i>For High-Modulus Non-Acid Curing, Add</i>	58.65	
07 92 13 00-0014	CLF		3/4" x 3/4" Joint, Silicone Sealant And Caulking	716.23	128.78
			<i>For Custom Match Coloring, Add</i>	79.17	
			<i>For Up To 0.65 CLF, Add</i>	44.06	
			<i>For >3.5 CLF, Deduct</i>	-52.31	
			<i>For 1 Part Mildew Resistant, Add</i>	115.46	
			<i>For High-Modulus Non-Acid Curing, Add</i>	65.98	
07 92 13 00-0015	CLF		3/4" x 1" Joint, Silicone Sealant And Caulking	861.32	140.49
			<i>For Custom Match Coloring, Add</i>	105.56	
			<i>For Up To 0.5 CLF, Add</i>	54.06	
			<i>For >2.5 CLF, Deduct</i>	-65.06	
			<i>For 1 Part Mildew Resistant, Add</i>	153.95	
			<i>For High-Modulus Non-Acid Curing, Add</i>	87.97	
07 92 13 00-0016	CLF		1" x 1" Joint, Silicone Sealant And Caulking	1,054.77	155.71
			<i>For Custom Match Coloring, Add</i>	140.75	
			<i>For Up To 0.4 CLF, Add</i>	67.40	
			<i>For >2 CLF, Deduct</i>	-82.06	
			<i>For 1 Part Mildew Resistant, Add</i>	205.26	
			<i>For High-Modulus Non-Acid Curing, Add</i>	117.29	
07 92 13 00-0017			Acrylic/Latex Sealant And Caulking <small>(07 92 13)</small>		
07 92 13 00-0018	CLF		1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking	328.97	105.37
			<i>For Up To 6 CLF, Add</i>	16.77	
			<i>For >30 CLF, Deduct</i>	-17.09	
07 92 13 00-0019	CLF		1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	335.40	105.37
			<i>For Up To 4 CLF, Add</i>	17.25	
			<i>For >20 CLF, Deduct</i>	-17.73	
07 92 13 00-0020	CLF		1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	353.53	108.88
			<i>For Up To 3 CLF, Add</i>	18.32	
			<i>For >15 CLF, Deduct</i>	-18.96	
07 92 13 00-0021	CLF		3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	356.74	108.88
			<i>For Up To 2.5 CLF, Add</i>	18.56	
			<i>For >13 CLF, Deduct</i>	-19.28	
07 92 13 00-0022	CLF		3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	366.39	108.88
			<i>For Up To 2 CLF, Add</i>	19.28	
			<i>For >10 CLF, Deduct</i>	-20.25	
07 92 13 00-0023	CLF		3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	376.03	108.88
			<i>For Up To 1.5 CLF, Add</i>	20.01	
			<i>For >8 CLF, Deduct</i>	-21.21	
07 92 13 00-0024	CLF		3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	397.39	113.56
			<i>For Up To 1.3 CLF, Add</i>	21.32	
			<i>For >7 CLF, Deduct</i>	-22.76	
07 92 13 00-0025	CLF		1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	390.96	113.56
			<i>For Up To 1.4 CLF, Add</i>	20.83	
			<i>For >7.5 CLF, Deduct</i>	-22.12	
07 92 13 00-0026	CLF		1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	415.53	117.07
			<i>For Up To 1.15 CLF, Add</i>	22.38	
			<i>For >6 CLF, Deduct</i>	-23.99	
07 92 13 00-0027	CLF		1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	428.39	117.07
			<i>For Up To 1 CLF, Add</i>	23.35	
			<i>For >5 CLF, Deduct</i>	-25.28	
07 92 13 00-0028	CLF		1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking	452.96	120.58
			<i>For Up To 0.8 CLF, Add</i>	24.90	
			<i>For >4.5 CLF, Deduct</i>	-27.15	
07 92 13 00-0029	CLF		1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking	477.52	125.27
			<i>For Up To 0.75 CLF, Add</i>	26.45	
			<i>For >4 CLF, Deduct</i>	-29.02	
07 92 13 00-0030	CLF		3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	502.08	128.78
			<i>For Up To 0.65 CLF, Add</i>	28.00	
			<i>For >3.5 CLF, Deduct</i>	-30.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0031 CLF 3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	575.78 32.65 -36.50	140.49
07 92 13 00-0032 CLF 1" x 1" Joint, Acrylic/Latex Sealant And Caulking <i>For Up To 0.4 CLF, Add</i> <i>For >2 CLF, Deduct</i>	674.06 38.85 -43.99	155.71
07 92 13 00-0033 Polyurethane Sealant And Caulking <small>(07 92 13)</small> Note: 1 or 2 part, non-sag.		
07 92 13 00-0034 CLF 1/4" x 1/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	344.22 17.91 -18.62	105.37
07 92 13 00-0035 CLF 1/4" x 3/8" Joint, Polyurethane Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	358.28 18.97 -20.02	105.37
07 92 13 00-0036 CLF 1/4" x 1/2" Joint, Polyurethane Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	384.03 20.61 -22.01	108.88
07 92 13 00-0037 CLF 3/8" x 3/8" Joint, Polyurethane Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	391.06 21.13 -22.72	108.88
07 92 13 00-0038 CLF 3/8" x 1/2" Joint, Polyurethane Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	412.15 22.72 -24.82	108.88
07 92 13 00-0039 CLF 3/8" x 5/8" Joint, Polyurethane Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	433.23 24.30 -26.93	108.88
07 92 13 00-0040 CLF 3/8" x 3/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	466.03 26.46 -29.63	113.56
07 92 13 00-0041 CLF 1/2" x 1/2" Joint, Polyurethane Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	451.97 25.41 -28.22	113.56
07 92 13 00-0042 CLF 1/2" x 5/8" Joint, Polyurethane Sealant And Caulking <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	491.79 28.10 -31.62	117.07
07 92 13 00-0043 CLF 1/2" x 3/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	519.90 30.21 -34.43	117.07
07 92 13 00-0044 CLF 1/2" x 7/8" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	559.73 32.91 -37.83	120.58
07 92 13 00-0045 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	599.54 35.60 -41.22	125.27
07 92 13 00-0046 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	639.36 38.29 -44.62	128.78
07 92 13 00-0047 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	758.82 46.37 -54.81	140.49
07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear <small>(07 92 13)</small> Note: 1 or 2 part, non-sag.		
07 92 13 00-0049 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	346.89 18.11 -18.88	105.37
07 92 13 00-0050 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	362.29 19.27 -20.42	105.37
07 92 13 00-0051 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	389.38 21.01 -22.55	108.88
07 92 13 00-0052 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	397.08 21.59 -23.32	108.88
07 92 13 00-0053 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	420.18 23.32 -25.63	108.88
07 92 13 00-0054 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	443.26 25.05 -27.94	108.88
07 92 13 00-0055 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	478.06 27.37 -30.83	113.56
07 92 13 00-0056 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	462.67 26.21 -29.29	113.56
07 92 13 00-0057 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	505.17 29.11 -32.96	117.07

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0058	CLF		1/2" x 3/4" Joint, Polysulfide Sealant And Caulking	535.95	117.07
			<i>For Up To 1 CLF, Add</i>	31.42	
			<i>For >5 CLF, Deduct</i>	-36.03	
07 92 13 00-0059	CLF		1/2" x 7/8" Joint, Polysulfide Sealant And Caulking	578.46	120.58
			<i>For Up To 0.8 CLF, Add</i>	34.31	
			<i>For >4.5 CLF, Deduct</i>	-39.70	
07 92 13 00-0060	CLF		1/2" x 1" Joint, Polysulfide Sealant And Caulking	620.93	125.27
			<i>For Up To 0.75 CLF, Add</i>	37.20	
			<i>For >4 CLF, Deduct</i>	-43.36	
07 92 13 00-0061	CLF		3/4" x 3/4" Joint, Polysulfide Sealant And Caulking	663.44	128.78
			<i>For Up To 0.65 CLF, Add</i>	40.10	
			<i>For >3.5 CLF, Deduct</i>	-47.03	
07 92 13 00-0062	CLF		3/4" x 1" Joint, Polysulfide Sealant And Caulking	790.91	140.49
			<i>For Up To 0.5 CLF, Add</i>	48.78	
			<i>For >2.5 CLF, Deduct</i>	-58.02	
07 92 13 00-0063			Flexible Polyurethane Security Sealant And Caulking ^(07 92 13)		
			Note: 1 or 2 part, non-sag.		
07 92 13 00-0064	CLF		1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking	353.42	105.37
			<i>For Up To 6 CLF, Add</i>	18.60	
			<i>For >30 CLF, Deduct</i>	-19.54	
07 92 13 00-0065	CLF		1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking	372.08	105.37
			<i>For Up To 4 CLF, Add</i>	20.00	
			<i>For >20 CLF, Deduct</i>	-21.40	
07 92 13 00-0066	CLF		1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	402.43	108.88
			<i>For Up To 3 CLF, Add</i>	21.99	
			<i>For >15 CLF, Deduct</i>	-23.85	
07 92 13 00-0067	CLF		3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking	411.76	108.88
			<i>For Up To 2.5 CLF, Add</i>	22.69	
			<i>For >13 CLF, Deduct</i>	-24.79	
07 92 13 00-0068	CLF		3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	439.74	108.88
			<i>For Up To 2 CLF, Add</i>	24.79	
			<i>For >10 CLF, Deduct</i>	-27.58	
07 92 13 00-0069	CLF		3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	467.73	108.88
			<i>For Up To 1.5 CLF, Add</i>	26.88	
			<i>For >8 CLF, Deduct</i>	-30.38	
07 92 13 00-0070	CLF		3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	507.42	113.56
			<i>For Up To 1.3 CLF, Add</i>	29.57	
			<i>For >7 CLF, Deduct</i>	-33.77	
07 92 13 00-0071	CLF		1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking	488.76	113.56
			<i>For Up To 1.4 CLF, Add</i>	28.17	
			<i>For >7.5 CLF, Deduct</i>	-31.90	
07 92 13 00-0072	CLF		1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	537.78	117.07
			<i>For Up To 1.15 CLF, Add</i>	31.55	
			<i>For >6 CLF, Deduct</i>	-36.22	
07 92 13 00-0073	CLF		1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	575.10	117.07
			<i>For Up To 1 CLF, Add</i>	34.35	
			<i>For >5 CLF, Deduct</i>	-39.95	
07 92 13 00-0074	CLF		1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking	624.12	120.58
			<i>For Up To 0.8 CLF, Add</i>	37.74	
			<i>For >4.5 CLF, Deduct</i>	-44.27	
07 92 13 00-0075	CLF		1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	673.13	125.27
			<i>For Up To 0.75 CLF, Add</i>	41.12	
			<i>For >4 CLF, Deduct</i>	-48.58	
07 92 13 00-0076	CLF		3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	722.15	128.78
			<i>For Up To 0.65 CLF, Add</i>	44.50	
			<i>For >3.5 CLF, Deduct</i>	-52.90	
07 92 13 00-0077	CLF		3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	869.20	140.49
			<i>For Up To 0.5 CLF, Add</i>	54.65	
			<i>For >2.5 CLF, Deduct</i>	-65.85	
07 92 19			Acoustical Joint Sealants ^(07 92)		
07 92 19 00-0001			Acoustical Sealant ^(07 92 19)		
07 92 19 00-0002	CLF		1/4" x 1/4" Joint, Acoustical Sealant.....	357.07	105.37
			<i>For Custom Match Coloring, Add</i>	9.83	
			<i>For Up To 6 CLF, Add</i>	18.88	
			<i>For >30 CLF, Deduct</i>	-19.90	
			<i>For 1 Part Mildew Resistant, Add</i>	14.34	
			<i>For High-Modulus Non-Acid Curing, Add</i>	8.19	
07 92 19 00-0003	CLF		1/4" x 3/8" Joint, Acoustical Sealant.....	372.63	105.37
			<i>For Custom Match Coloring, Add</i>	13.56	
			<i>For Up To 4 CLF, Add</i>	20.04	
			<i>For >20 CLF, Deduct</i>	-21.46	
			<i>For 1 Part Mildew Resistant, Add</i>	19.78	
			<i>For High-Modulus Non-Acid Curing, Add</i>	11.30	
07 92 19 00-0004	CLF		1/4" x 1/2" Joint, Acoustical Sealant.....	393.50	108.88
			<i>For Custom Match Coloring, Add</i>	15.77	
			<i>For Up To 3 CLF, Add</i>	21.32	
			<i>For >15 CLF, Deduct</i>	-22.96	
			<i>For 1 Part Mildew Resistant, Add</i>	22.99	
			<i>For High-Modulus Non-Acid Curing, Add</i>	13.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant	418.96	108.88
<i>For Custom Match Coloring, Add</i>	21.88	
<i>For Up To 2.5 CLF, Add</i>	23.23	
<i>For >13 CLF, Deduct</i>	-25.51	
<i>For 1 Part Mildew Resistant, Add</i>	31.90	
<i>For High-Modulus Non-Acid Curing, Add</i>	18.23	
07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant	445.42	108.88
<i>For Custom Match Coloring, Add</i>	28.23	
<i>For Up To 2 CLF, Add</i>	25.21	
<i>For >10 CLF, Deduct</i>	-28.15	
<i>For 1 Part Mildew Resistant, Add</i>	41.16	
<i>For High-Modulus Non-Acid Curing, Add</i>	23.52	
07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant	505.24	113.56
<i>For Custom Match Coloring, Add</i>	39.77	
<i>For Up To 1.4 CLF, Add</i>	29.41	
<i>For >7.5 CLF, Deduct</i>	-33.55	
<i>For 1 Part Mildew Resistant, Add</i>	58.00	
<i>For High-Modulus Non-Acid Curing, Add</i>	33.14	

07 95 Expansion Control (07 90)

07 95 13 Expansion Joint Cover Assemblies (07 95)

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)

07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies (07 95 13 13)

07 95 13 13-0002 With 1" Space (07 95 13 13-0001)

07 95 13 13-0003	LF	1" Opening Floor Assembly Type, Aluminum Expansion Joint Cover.....	58.95	6.27
07 95 13 13-0004	LF	1" Opening Floor Assembly Type, Bronze Expansion Joint Cover	68.99	6.27
07 95 13 13-0005	LF	1" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover.....	76.79	6.27

07 95 13 13-0006 With 2" Space (07 95 13 13-0001)

07 95 13 13-0007	LF	2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover.....	74.68	6.27
07 95 13 13-0008	LF	2" Opening Floor Assembly Type, Bronze Expansion Joint Cover	82.82	6.27
07 95 13 13-0009	LF	2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover.....	101.45	6.27

07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies (07 95 13 13)

07 95 13 13-0011 With 1" Space (07 95 13 13-0010)

07 95 13 13-0012	LF	1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	43.22	6.27
07 95 13 13-0013	LF	1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	55.16	6.27
07 95 13 13-0014	LF	1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover.....	64.47	6.27

07 95 13 13-0015 With 2" Space (07 95 13 13-0010)

07 95 13 13-0016	LF	2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	52.66	6.27
07 95 13 13-0017	LF	2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	62.07	6.27
07 95 13 13-0018	LF	2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover.....	76.79	6.27

07 95 13 16 Exterior Expansion Joint Cover Assemblies (07 95 13)

07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies (07 95 13 16)

07 95 13 16-0002 Roof To Roof (07 95 13 16-0001)

07 95 13 16-0003	LF	1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	68.77	4.18
07 95 13 16-0004	LF	2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	82.01	4.18
07 95 13 16-0005	LF	3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	91.13	4.18

07 95 13 16-0006 Roof To Wall (07 95 13 16-0001)

07 95 13 16-0007	LF	1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	52.79	4.18
07 95 13 16-0008	LF	2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	68.99	4.18

07 95 13 16-0009 Flat Wall To Wall (07 95 13 16-0001)

07 95 13 16-0010	LF	1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	40.10	4.18
07 95 13 16-0011	LF	2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	49.82	4.18
07 95 13 16-0012	LF	3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	61.56	4.18

07 95 13 16-0013 Corner To Flat Wall (07 95 13 16-0001)

07 95 13 16-0014	LF	1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	38.45	4.18
07 95 13 16-0015	LF	2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	44.93	4.18
07 95 13 16-0016	LF	3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	63.15	4.18

07	07	Thermal And Moisture Protection
	07 90	Joint Protection
	07 95	Expansion Control



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 07



Openings	08	08
Doors and Frames	08 10	
Metal Doors and Frames	08 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 Openings

08 10 Doors and Frames (08)

08 11 Metal Doors and Frames (08 10)

08 11 63 Metal Screen and Storm Doors and Frames (08 11)

08 11 63 13 Steel Screen and Storm Doors and Frames (08 11 63)

08 11 63 13-0001 Steel Screen Door (08 11 63 13)

Note: Includes frame, trim, necessary anchors and hardware (closures, chain and spring, latching, screens, etc.).

08 11 63 13-0002	EA	2'-8" x 7', Residential, Steel Screen Door With Frame, Trim, Hardware	1,122.89	161.05
08 11 63 13-0003	EA	3' x 7' Steel Screen Door, Residential, With Frame, Trim, Hardware	1,134.64	166.90
08 11 63 13-0004	EA	Steel Combination Type Residential Storm Door, With Mesh And Tempered Glass With Frame, Trim, Hardware	958.31	166.90

08 11 63 23 Aluminum Screen and Storm Doors and Frames (08 11 63)

08 11 63 23-0001 Aluminum Combination Type With Tempered Glass At Top And Bottom (08 11 63 23)

Note: Includes frame trim, necessary anchors and usual hardware (closures, chain and spring, latching, screens, etc.).

08 11 63 23-0002	EA	Aluminum Combination Type Residential Storm Door, Tempered Glass Top With Frame, Trim, Hardware	747.79	93.70
		<i>For Special Finished, Add</i>	61.62	
08 11 63 23-0003	EA	Aluminum Combination Type Residential Storm Door, Tempered Glass Top And Bottom With Frame, Trim, Hardware	782.43	93.70
08 11 63 23-0004	EA	Aluminum Screen Door	282.02	58.54
08 11 63 23-0005	SF	Repair Screen Door	9.15	

08 11 73 Sliding Metal Fire Doors (08 11)

08 11 73 00-0001 Motor Operated Fire Door (08 11 73)

Note: With fusible link, 3 hour rating. Excludes electrical hook-up of motor.

08 11 73 00-0002	EA	3' x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	4,847.24	522.27
08 11 73 00-0003	EA	3' 8" x 6' 8" Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	5,253.27	522.27
08 11 73 00-0004	EA	4' x 8' Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	5,940.45	522.27
08 11 73 00-0005	EA	5' x 8' Sliding Metal Fire Door, Motor Operated Door With 3 Hour Rating	6,679.47	522.27

08 12 Metal Frames (08 10)

Note: Includes perimeter caulk, sealant (as required), anchors and silencers.

08 12 13 Hollow Metal Frames (08 12)

08 12 13 13 Standard Hollow Metal Frames (08 12 13)

Note: Shop prime coat.

08 12 13 13-0001 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13)

Note: For non-rated or fire rated frame assemblies

08 12 13 13-0002 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0001)

08 12 13 13-0003	EA	2' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	321.69	87.85
		<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	21.90	
		<i>For Welded Frames, Add</i>	85.11	
		<i>For Galvanized Frames, Add</i>	17.52	
		<i>For Type 304 Stainless Steel Frame, Add</i>	271.60	
		<i>For Type 316 Stainless Steel Frame, Add</i>	315.41	
		<i>For Baked Enamel Finish, Add</i>	70.16	
		<i>For 18 Gauge Frame, Deduct</i>	-14.60	
		<i>For 14 Gauge Frame, Add</i>	36.50	
		<i>For 12 Gauge Frame, Add</i>	55.48	
08 12 13 13-0004	EA	2'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	367.07	96.62
		<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	26.07	
		<i>For Welded Frames, Add</i>	85.11	
		<i>For Galvanized Frames, Add</i>	20.86	
		<i>For Type 304 Stainless Steel Frame, Add</i>	322.54	
		<i>For Type 316 Stainless Steel Frame, Add</i>	374.68	
		<i>For Baked Enamel Finish, Add</i>	81.13	
		<i>For 18 Gauge Frame, Deduct</i>	-17.38	
		<i>For 14 Gauge Frame, Add</i>	43.46	
		<i>For 12 Gauge Frame, Add</i>	66.05	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0005	EA		2'-6" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	381.57	102.48
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	26.49	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	21.19	
			<i>For Type 304 Stainless Steel Frame, Add</i>	328.13	
			<i>For Type 316 Stainless Steel Frame, Add</i>	381.11	
			<i>For Baked Enamel Finish, Add</i>	83.73	
			<i>For 18 Gauge Frame, Deduct</i>	-17.66	
			<i>For 14 Gauge Frame, Add</i>	44.15	
			<i>For 12 Gauge Frame, Add</i>	67.11	
08 12 13 13-0006	EA		2'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	399.13	111.27
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	26.49	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	21.19	
			<i>For Type 304 Stainless Steel Frame, Add</i>	329.01	
			<i>For Type 316 Stainless Steel Frame, Add</i>	381.99	
			<i>For Baked Enamel Finish, Add</i>	86.36	
			<i>For 18 Gauge Frame, Deduct</i>	-17.66	
			<i>For 14 Gauge Frame, Add</i>	44.15	
			<i>For 12 Gauge Frame, Add</i>	67.11	
08 12 13 13-0007	EA		2'-10" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	407.77	114.20
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	26.91	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	21.53	
			<i>For Type 304 Stainless Steel Frame, Add</i>	334.30	
			<i>For Type 316 Stainless Steel Frame, Add</i>	388.12	
			<i>For Baked Enamel Finish, Add</i>	88.07	
			<i>For 18 Gauge Frame, Deduct</i>	-17.94	
			<i>For 14 Gauge Frame, Add</i>	44.85	
			<i>For 12 Gauge Frame, Add</i>	68.16	
08 12 13 13-0008	EA		3' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	416.41	117.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	27.32	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	21.86	
			<i>For Type 304 Stainless Steel Frame, Add</i>	339.60	
			<i>For Type 316 Stainless Steel Frame, Add</i>	394.25	
			<i>For Baked Enamel Finish, Add</i>	89.79	
			<i>For 18 Gauge Frame, Deduct</i>	-18.22	
			<i>For 14 Gauge Frame, Add</i>	45.54	
			<i>For 12 Gauge Frame, Add</i>	69.22	
08 12 13 13-0009	EA		3'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	440.62	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.20	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.36	
			<i>For Type 304 Stainless Steel Frame, Add</i>	362.70	
			<i>For Type 316 Stainless Steel Frame, Add</i>	421.10	
			<i>For Baked Enamel Finish, Add</i>	95.29	
			<i>For 18 Gauge Frame, Deduct</i>	-19.47	
			<i>For 14 Gauge Frame, Add</i>	48.67	
			<i>For 12 Gauge Frame, Add</i>	73.97	
08 12 13 13-0010	EA		3'-6" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	452.34	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.20	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.36	
			<i>For Type 304 Stainless Steel Frame, Add</i>	363.29	
			<i>For Type 316 Stainless Steel Frame, Add</i>	421.69	
			<i>For Baked Enamel Finish, Add</i>	97.05	
			<i>For 18 Gauge Frame, Deduct</i>	-19.47	
			<i>For 14 Gauge Frame, Add</i>	48.67	
			<i>For 12 Gauge Frame, Add</i>	73.97	
08 12 13 13-0011	EA		4' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	471.01	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	30.24	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	24.20	
			<i>For Type 304 Stainless Steel Frame, Add</i>	376.40	
			<i>For Type 316 Stainless Steel Frame, Add</i>	436.89	
			<i>For Baked Enamel Finish, Add</i>	100.90	
			<i>For 18 Gauge Frame, Deduct</i>	-20.16	
			<i>For 14 Gauge Frame, Add</i>	50.41	
			<i>For 12 Gauge Frame, Add</i>	76.62	
08 12 13 13-0012	EA		5' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	489.68	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	31.29	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.03	
			<i>For Type 304 Stainless Steel Frame, Add</i>	389.50	
			<i>For Type 316 Stainless Steel Frame, Add</i>	452.07	
			<i>For Baked Enamel Finish, Add</i>	104.74	
			<i>For 18 Gauge Frame, Deduct</i>	-20.86	
			<i>For 14 Gauge Frame, Add</i>	52.15	
			<i>For 12 Gauge Frame, Add</i>	79.26	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0013	EA		5'-4" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	501.39	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	31.29	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.03	
			<i>For Type 304 Stainless Steel Frame, Add</i>	390.08	
			<i>For Type 316 Stainless Steel Frame, Add</i>	452.66	
			<i>For Baked Enamel Finish, Add</i>	106.50	
			<i>For 18 Gauge Frame, Deduct</i>	-20.86	
			<i>For 14 Gauge Frame, Add</i>	52.15	
			<i>For 12 Gauge Frame, Add</i>	79.26	
08 12 13 13-0014	EA		5'-8" x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	510.72	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	31.81	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.45	
			<i>For Type 304 Stainless Steel Frame, Add</i>	396.64	
			<i>For Type 316 Stainless Steel Frame, Add</i>	460.26	
			<i>For Baked Enamel Finish, Add</i>	108.42	
			<i>For 18 Gauge Frame, Deduct</i>	-21.21	
			<i>For 14 Gauge Frame, Add</i>	53.02	
			<i>For 12 Gauge Frame, Add</i>	80.58	
08 12 13 13-0015	EA		6' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	520.05	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	32.33	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.86	
			<i>For Type 304 Stainless Steel Frame, Add</i>	403.18	
			<i>For Type 316 Stainless Steel Frame, Add</i>	467.84	
			<i>For Baked Enamel Finish, Add</i>	110.34	
			<i>For 18 Gauge Frame, Deduct</i>	-21.55	
			<i>For 14 Gauge Frame, Add</i>	53.88	
			<i>For 12 Gauge Frame, Add</i>	81.90	
08 12 13 13-0016	EA		7' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	539.82	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	34.42	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	27.53	
			<i>For Type 304 Stainless Steel Frame, Add</i>	428.51	
			<i>For Type 316 Stainless Steel Frame, Add</i>	497.34	
			<i>For Baked Enamel Finish, Add</i>	115.39	
			<i>For 18 Gauge Frame, Deduct</i>	-22.94	
			<i>For 14 Gauge Frame, Add</i>	57.36	
			<i>For 12 Gauge Frame, Add</i>	87.19	
08 12 13 13-0017	EA		8' x 6'-8" Through 7'-2" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	559.58	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	36.50	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	29.20	
			<i>For Type 304 Stainless Steel Frame, Add</i>	453.82	
			<i>For Type 316 Stainless Steel Frame, Add</i>	526.83	
			<i>For Baked Enamel Finish, Add</i>	120.44	
			<i>For 18 Gauge Frame, Deduct</i>	-24.33	
			<i>For 14 Gauge Frame, Add</i>	60.84	
			<i>For 12 Gauge Frame, Add</i>	92.47	
08 12 13 13-0018			>7'-2" Through 9'-0" High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0001)		
08 12 13 13-0019	EA		2' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	337.91	87.85
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	24.33	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	19.47	
			<i>For Type 304 Stainless Steel Frame, Add</i>	300.80	
			<i>For Type 316 Stainless Steel Frame, Add</i>	349.47	
			<i>For Baked Enamel Finish, Add</i>	75.02	
			<i>For 18 Gauge Frame, Deduct</i>	-16.22	
			<i>For 14 Gauge Frame, Add</i>	40.56	
			<i>For 12 Gauge Frame, Add</i>	61.65	
08 12 13 13-0020	EA		2'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	386.38	96.62
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	28.97	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.18	
			<i>For Type 304 Stainless Steel Frame, Add</i>	357.30	
			<i>For Type 316 Stainless Steel Frame, Add</i>	415.24	
			<i>For Baked Enamel Finish, Add</i>	86.93	
			<i>For 18 Gauge Frame, Deduct</i>	-19.31	
			<i>For 14 Gauge Frame, Add</i>	48.28	
			<i>For 12 Gauge Frame, Add</i>	73.39	
08 12 13 13-0021	EA		2'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	401.19	102.48
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.43	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.55	
			<i>For Type 304 Stainless Steel Frame, Add</i>	363.44	
			<i>For Type 316 Stainless Steel Frame, Add</i>	422.31	
			<i>For Baked Enamel Finish, Add</i>	89.61	
			<i>For 18 Gauge Frame, Deduct</i>	-19.62	
			<i>For 14 Gauge Frame, Add</i>	49.06	
			<i>For 12 Gauge Frame, Add</i>	74.56	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0022	EA		2'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	418.75	111.27
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.43	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.55	
			<i>For Type 304 Stainless Steel Frame, Add</i>	364.32	
			<i>For Type 316 Stainless Steel Frame, Add</i>	423.19	
			<i>For Baked Enamel Finish, Add</i>	92.25	
			<i>For 18 Gauge Frame, Deduct</i>	-19.62	
			<i>For 14 Gauge Frame, Add</i>	49.06	
			<i>For 12 Gauge Frame, Add</i>	74.56	
08 12 13 13-0023	EA		2'-10" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	427.70	114.20
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.90	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.92	
			<i>For Type 304 Stainless Steel Frame, Add</i>	370.18	
			<i>For Type 316 Stainless Steel Frame, Add</i>	429.97	
			<i>For Baked Enamel Finish, Add</i>	94.05	
			<i>For 18 Gauge Frame, Deduct</i>	-19.93	
			<i>For 14 Gauge Frame, Add</i>	49.83	
			<i>For 12 Gauge Frame, Add</i>	75.74	
08 12 13 13-0024	EA		3' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	436.65	117.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	30.36	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	24.29	
			<i>For Type 304 Stainless Steel Frame, Add</i>	376.03	
			<i>For Type 316 Stainless Steel Frame, Add</i>	436.75	
			<i>For Baked Enamel Finish, Add</i>	95.86	
			<i>For 18 Gauge Frame, Deduct</i>	-20.24	
			<i>For 14 Gauge Frame, Add</i>	50.60	
			<i>For 12 Gauge Frame, Add</i>	76.91	
08 12 13 13-0025	EA		3'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	462.25	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	32.45	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.96	
			<i>For Type 304 Stainless Steel Frame, Add</i>	401.64	
			<i>For Type 316 Stainless Steel Frame, Add</i>	466.53	
			<i>For Baked Enamel Finish, Add</i>	101.78	
			<i>For 18 Gauge Frame, Deduct</i>	-21.63	
			<i>For 14 Gauge Frame, Add</i>	54.08	
			<i>For 12 Gauge Frame, Add</i>	82.19	
08 12 13 13-0026	EA		3'-6" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	473.97	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	32.45	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.96	
			<i>For Type 304 Stainless Steel Frame, Add</i>	402.22	
			<i>For Type 316 Stainless Steel Frame, Add</i>	467.11	
			<i>For Baked Enamel Finish, Add</i>	103.54	
			<i>For 18 Gauge Frame, Deduct</i>	-21.63	
			<i>For 14 Gauge Frame, Add</i>	54.08	
			<i>For 12 Gauge Frame, Add</i>	82.19	
08 12 13 13-0027	EA		4' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	493.41	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	33.60	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	26.88	
			<i>For Type 304 Stainless Steel Frame, Add</i>	416.72	
			<i>For Type 316 Stainless Steel Frame, Add</i>	483.93	
			<i>For Baked Enamel Finish, Add</i>	107.62	
			<i>For 18 Gauge Frame, Deduct</i>	-22.40	
			<i>For 14 Gauge Frame, Add</i>	56.01	
			<i>For 12 Gauge Frame, Add</i>	85.13	
08 12 13 13-0028	EA		5' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	512.85	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	34.76	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	27.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	431.21	
			<i>For Type 316 Stainless Steel Frame, Add</i>	500.73	
			<i>For Baked Enamel Finish, Add</i>	111.69	
			<i>For 18 Gauge Frame, Deduct</i>	-23.18	
			<i>For 14 Gauge Frame, Add</i>	57.94	
			<i>For 12 Gauge Frame, Add</i>	88.07	
08 12 13 13-0029	EA		5'-4" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	524.56	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	34.76	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	27.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	431.79	
			<i>For Type 316 Stainless Steel Frame, Add</i>	501.32	
			<i>For Baked Enamel Finish, Add</i>	113.45	
			<i>For 18 Gauge Frame, Deduct</i>	-23.18	
			<i>For 14 Gauge Frame, Add</i>	57.94	
			<i>For 12 Gauge Frame, Add</i>	88.07	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0030	EA		5'-8" x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame 534.28		149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	35.34	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	28.27	
			<i>For Type 304 Stainless Steel Frame, Add</i>	439.05	
			<i>For Type 316 Stainless Steel Frame, Add</i>	509.74	
			<i>For Baked Enamel Finish, Add</i>	115.49	
			<i>For 18 Gauge Frame, Deduct</i>	-23.56	
			<i>For 14 Gauge Frame, Add</i>	58.91	
			<i>For 12 Gauge Frame, Add</i>	89.54	
08 12 13 13-0031	EA		6' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 544.00		152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	35.92	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	28.74	
			<i>For Type 304 Stainless Steel Frame, Add</i>	446.29	
			<i>For Type 316 Stainless Steel Frame, Add</i>	518.13	
			<i>For Baked Enamel Finish, Add</i>	117.52	
			<i>For 18 Gauge Frame, Deduct</i>	-23.95	
			<i>For 14 Gauge Frame, Add</i>	59.87	
			<i>For 12 Gauge Frame, Add</i>	91.00	
08 12 13 13-0032	EA		7' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 565.31		155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	38.24	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	30.59	
			<i>For Type 304 Stainless Steel Frame, Add</i>	474.39	
			<i>For Type 316 Stainless Steel Frame, Add</i>	550.87	
			<i>For Baked Enamel Finish, Add</i>	123.04	
			<i>For 18 Gauge Frame, Deduct</i>	-25.49	
			<i>For 14 Gauge Frame, Add</i>	63.73	
			<i>For 12 Gauge Frame, Add</i>	96.87	
08 12 13 13-0033	EA		8' x >7'-2" Through 9' High, 4-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 586.62		158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	40.56	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	32.45	
			<i>For Type 304 Stainless Steel Frame, Add</i>	502.50	
			<i>For Type 316 Stainless Steel Frame, Add</i>	583.61	
			<i>For Baked Enamel Finish, Add</i>	128.55	
			<i>For 18 Gauge Frame, Deduct</i>	-27.04	
			<i>For 14 Gauge Frame, Add</i>	67.60	
			<i>For 12 Gauge Frame, Add</i>	102.74	
08 12 13 13-0034			5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13)</small>		
			Note: For non-rated or fire rated frame assemblies		
08 12 13 13-0035			6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0034)</small>		
08 12 13 13-0036	EA		2' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame 337.91		87.85
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	24.33	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	19.47	
			<i>For Type 304 Stainless Steel Frame, Add</i>	300.80	
			<i>For Type 316 Stainless Steel Frame, Add</i>	349.47	
			<i>For Baked Enamel Finish, Add</i>	75.02	
			<i>For 18 Gauge Frame, Deduct</i>	-16.22	
			<i>For 14 Gauge Frame, Add</i>	40.56	
			<i>For 12 Gauge Frame, Add</i>	61.65	
08 12 13 13-0037	EA		2'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 386.38		96.62
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	28.97	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.18	
			<i>For Type 304 Stainless Steel Frame, Add</i>	357.30	
			<i>For Type 316 Stainless Steel Frame, Add</i>	415.24	
			<i>For Baked Enamel Finish, Add</i>	86.93	
			<i>For 18 Gauge Frame, Deduct</i>	-19.31	
			<i>For 14 Gauge Frame, Add</i>	48.28	
			<i>For 12 Gauge Frame, Add</i>	73.39	
08 12 13 13-0038	EA		2'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 401.19		102.48
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.43	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.55	
			<i>For Type 304 Stainless Steel Frame, Add</i>	363.44	
			<i>For Type 316 Stainless Steel Frame, Add</i>	422.31	
			<i>For Baked Enamel Finish, Add</i>	89.61	
			<i>For 18 Gauge Frame, Deduct</i>	-19.62	
			<i>For 14 Gauge Frame, Add</i>	49.06	
			<i>For 12 Gauge Frame, Add</i>	74.56	
08 12 13 13-0039	EA		2'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame..... 418.75		111.27
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.43	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.55	
			<i>For Type 304 Stainless Steel Frame, Add</i>	364.32	
			<i>For Type 316 Stainless Steel Frame, Add</i>	423.19	
			<i>For Baked Enamel Finish, Add</i>	92.25	
			<i>For 18 Gauge Frame, Deduct</i>	-19.62	
			<i>For 14 Gauge Frame, Add</i>	49.06	
			<i>For 12 Gauge Frame, Add</i>	74.56	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0040	EA		2'-10" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	427.70	114.20
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	29.90	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	23.92	
			<i>For Type 304 Stainless Steel Frame, Add</i>	370.18	
			<i>For Type 316 Stainless Steel Frame, Add</i>	429.97	
			<i>For Baked Enamel Finish, Add</i>	94.05	
			<i>For 18 Gauge Frame, Deduct</i>	-19.93	
			<i>For 14 Gauge Frame, Add</i>	49.83	
			<i>For 12 Gauge Frame, Add</i>	75.74	
08 12 13 13-0041	EA		3' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	436.65	117.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	30.36	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	24.29	
			<i>For Type 304 Stainless Steel Frame, Add</i>	376.03	
			<i>For Type 316 Stainless Steel Frame, Add</i>	436.75	
			<i>For Baked Enamel Finish, Add</i>	95.86	
			<i>For 18 Gauge Frame, Deduct</i>	-20.24	
			<i>For 14 Gauge Frame, Add</i>	50.60	
			<i>For 12 Gauge Frame, Add</i>	76.91	
08 12 13 13-0042	EA		3'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	462.25	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	32.45	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.96	
			<i>For Type 304 Stainless Steel Frame, Add</i>	401.64	
			<i>For Type 316 Stainless Steel Frame, Add</i>	466.53	
			<i>For Baked Enamel Finish, Add</i>	101.78	
			<i>For 18 Gauge Frame, Deduct</i>	-21.63	
			<i>For 14 Gauge Frame, Add</i>	54.08	
			<i>For 12 Gauge Frame, Add</i>	82.19	
08 12 13 13-0043	EA		3'-6" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	473.97	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	32.45	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	25.96	
			<i>For Type 304 Stainless Steel Frame, Add</i>	402.22	
			<i>For Type 316 Stainless Steel Frame, Add</i>	467.11	
			<i>For Baked Enamel Finish, Add</i>	103.54	
			<i>For 18 Gauge Frame, Deduct</i>	-21.63	
			<i>For 14 Gauge Frame, Add</i>	54.08	
			<i>For 12 Gauge Frame, Add</i>	82.19	
08 12 13 13-0044	EA		4' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	493.41	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	33.60	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	26.88	
			<i>For Type 304 Stainless Steel Frame, Add</i>	416.72	
			<i>For Type 316 Stainless Steel Frame, Add</i>	483.93	
			<i>For Baked Enamel Finish, Add</i>	107.62	
			<i>For 18 Gauge Frame, Deduct</i>	-22.40	
			<i>For 14 Gauge Frame, Add</i>	56.01	
			<i>For 12 Gauge Frame, Add</i>	85.13	
08 12 13 13-0045	EA		5' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	512.85	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	34.76	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	27.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	431.21	
			<i>For Type 316 Stainless Steel Frame, Add</i>	500.73	
			<i>For Baked Enamel Finish, Add</i>	111.69	
			<i>For 18 Gauge Frame, Deduct</i>	-23.18	
			<i>For 14 Gauge Frame, Add</i>	57.94	
			<i>For 12 Gauge Frame, Add</i>	88.07	
08 12 13 13-0046	EA		5'-4" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	524.56	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	34.76	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	27.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	431.79	
			<i>For Type 316 Stainless Steel Frame, Add</i>	501.32	
			<i>For Baked Enamel Finish, Add</i>	113.45	
			<i>For 18 Gauge Frame, Deduct</i>	-23.18	
			<i>For 14 Gauge Frame, Add</i>	57.94	
			<i>For 12 Gauge Frame, Add</i>	88.07	
08 12 13 13-0047	EA		5'-8" x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	534.28	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	35.34	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	28.27	
			<i>For Type 304 Stainless Steel Frame, Add</i>	439.05	
			<i>For Type 316 Stainless Steel Frame, Add</i>	509.74	
			<i>For Baked Enamel Finish, Add</i>	115.49	
			<i>For 18 Gauge Frame, Deduct</i>	-23.56	
			<i>For 14 Gauge Frame, Add</i>	58.91	
			<i>For 12 Gauge Frame, Add</i>	89.54	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0048 EA 6' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	544.00	152.26
For Auxiliary Frame Reinforcement For Hinges, Add	35.92	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	28.74	
For Type 304 Stainless Steel Frame, Add	446.29	
For Type 316 Stainless Steel Frame, Add	518.13	
For Baked Enamel Finish, Add	117.52	
For 18 Gauge Frame, Deduct	-23.95	
For 14 Gauge Frame, Add	59.87	
For 12 Gauge Frame, Add	91.00	
08 12 13 13-0049 EA 7' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	565.31	155.19
For Auxiliary Frame Reinforcement For Hinges, Add	38.24	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	30.59	
For Type 304 Stainless Steel Frame, Add	474.39	
For Type 316 Stainless Steel Frame, Add	550.87	
For Baked Enamel Finish, Add	123.04	
For 18 Gauge Frame, Deduct	-25.49	
For 14 Gauge Frame, Add	63.73	
For 12 Gauge Frame, Add	96.87	
08 12 13 13-0050 EA 8' x 6'-8" Through 7'-2" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	586.62	158.12
For Auxiliary Frame Reinforcement For Hinges, Add	40.56	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	32.45	
For Type 304 Stainless Steel Frame, Add	502.50	
For Type 316 Stainless Steel Frame, Add	583.61	
For Baked Enamel Finish, Add	128.55	
For 18 Gauge Frame, Deduct	-27.04	
For 14 Gauge Frame, Add	67.60	
For 12 Gauge Frame, Add	102.74	
08 12 13 13-0051 >7'-2" Through 9'-0" High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0034)</small>		
08 12 13 13-0052 EA 2' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	355.93	87.85
For Auxiliary Frame Reinforcement For Hinges, Add	27.04	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	21.63	
For Type 304 Stainless Steel Frame, Add	333.23	
For Type 316 Stainless Steel Frame, Add	387.31	
For Baked Enamel Finish, Add	80.43	
For 18 Gauge Frame, Deduct	-18.03	
For 14 Gauge Frame, Add	45.06	
For 12 Gauge Frame, Add	68.50	
08 12 13 13-0053 EA 2'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	407.84	96.62
For Auxiliary Frame Reinforcement For Hinges, Add	32.19	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	25.75	
For Type 304 Stainless Steel Frame, Add	395.92	
For Type 316 Stainless Steel Frame, Add	460.30	
For Baked Enamel Finish, Add	93.36	
For 18 Gauge Frame, Deduct	-21.46	
For 14 Gauge Frame, Add	53.65	
For 12 Gauge Frame, Add	81.54	
08 12 13 13-0054 EA 2'-6" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	422.99	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	32.70	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	26.16	
For Type 304 Stainless Steel Frame, Add	402.68	
For Type 316 Stainless Steel Frame, Add	468.09	
For Baked Enamel Finish, Add	96.15	
For 18 Gauge Frame, Deduct	-21.80	
For 14 Gauge Frame, Add	54.51	
For 12 Gauge Frame, Add	82.85	
08 12 13 13-0055 EA 2'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	440.55	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	32.70	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	26.16	
For Type 304 Stainless Steel Frame, Add	403.56	
For Type 316 Stainless Steel Frame, Add	468.97	
For Baked Enamel Finish, Add	98.79	
For 18 Gauge Frame, Deduct	-21.80	
For 14 Gauge Frame, Add	54.51	
For 12 Gauge Frame, Add	82.85	
08 12 13 13-0056 EA 2'-10" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	449.84	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	33.22	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	26.57	
For Type 304 Stainless Steel Frame, Add	410.03	
For Type 316 Stainless Steel Frame, Add	476.46	
For Baked Enamel Finish, Add	100.69	
For 18 Gauge Frame, Deduct	-22.15	
For 14 Gauge Frame, Add	55.36	
For 12 Gauge Frame, Add	84.15	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0057	EA		3' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	459.14	117.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	33.73	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	26.99	
			<i>For Type 304 Stainless Steel Frame, Add</i>	416.51	
			<i>For Type 316 Stainless Steel Frame, Add</i>	483.98	
			<i>For Baked Enamel Finish, Add</i>	102.60	
			<i>For 18 Gauge Frame, Deduct</i>	-22.49	
			<i>For 14 Gauge Frame, Add</i>	56.22	
			<i>For 12 Gauge Frame, Add</i>	85.46	
08 12 13 13-0058	EA		3'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	486.29	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	36.05	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	28.84	
			<i>For Type 304 Stainless Steel Frame, Add</i>	444.91	
			<i>For Type 316 Stainless Steel Frame, Add</i>	517.01	
			<i>For Baked Enamel Finish, Add</i>	108.99	
			<i>For 18 Gauge Frame, Deduct</i>	-24.03	
			<i>For 14 Gauge Frame, Add</i>	60.09	
			<i>For 12 Gauge Frame, Add</i>	91.33	
08 12 13 13-0059	EA		3'-6" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	498.01	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	36.05	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	28.84	
			<i>For Type 304 Stainless Steel Frame, Add</i>	445.50	
			<i>For Type 316 Stainless Steel Frame, Add</i>	517.60	
			<i>For Baked Enamel Finish, Add</i>	110.75	
			<i>For 18 Gauge Frame, Deduct</i>	-24.03	
			<i>For 14 Gauge Frame, Add</i>	60.09	
			<i>For 12 Gauge Frame, Add</i>	91.33	
08 12 13 13-0060	EA		4' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	518.30	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	37.34	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	29.87	
			<i>For Type 304 Stainless Steel Frame, Add</i>	461.53	
			<i>For Type 316 Stainless Steel Frame, Add</i>	536.20	
			<i>For Baked Enamel Finish, Add</i>	115.08	
			<i>For 18 Gauge Frame, Deduct</i>	-24.89	
			<i>For 14 Gauge Frame, Add</i>	62.23	
			<i>For 12 Gauge Frame, Add</i>	94.59	
08 12 13 13-0061	EA		5' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	538.60	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	38.63	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	30.90	
			<i>For Type 304 Stainless Steel Frame, Add</i>	477.56	
			<i>For Type 316 Stainless Steel Frame, Add</i>	554.81	
			<i>For Baked Enamel Finish, Add</i>	119.42	
			<i>For 18 Gauge Frame, Deduct</i>	-25.75	
			<i>For 14 Gauge Frame, Add</i>	64.38	
			<i>For 12 Gauge Frame, Add</i>	97.85	
08 12 13 13-0062	EA		5'-4" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	550.31	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	38.63	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	30.90	
			<i>For Type 304 Stainless Steel Frame, Add</i>	478.14	
			<i>For Type 316 Stainless Steel Frame, Add</i>	555.39	
			<i>For Baked Enamel Finish, Add</i>	121.17	
			<i>For 18 Gauge Frame, Deduct</i>	-25.75	
			<i>For 14 Gauge Frame, Add</i>	64.38	
			<i>For 12 Gauge Frame, Add</i>	97.85	
08 12 13 13-0063	EA		5'-8" x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	560.46	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	39.27	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	31.42	
			<i>For Type 304 Stainless Steel Frame, Add</i>	486.17	
			<i>For Type 316 Stainless Steel Frame, Add</i>	564.71	
			<i>For Baked Enamel Finish, Add</i>	123.34	
			<i>For 18 Gauge Frame, Deduct</i>	-26.18	
			<i>For 14 Gauge Frame, Add</i>	65.45	
			<i>For 12 Gauge Frame, Add</i>	99.48	
08 12 13 13-0064	EA		6' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	570.61	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	39.91	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	31.93	
			<i>For Type 304 Stainless Steel Frame, Add</i>	494.19	
			<i>For Type 316 Stainless Steel Frame, Add</i>	574.02	
			<i>For Baked Enamel Finish, Add</i>	125.51	
			<i>For 18 Gauge Frame, Deduct</i>	-26.61	
			<i>For 14 Gauge Frame, Add</i>	66.52	
			<i>For 12 Gauge Frame, Add</i>	101.11	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0065 EA 7' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	593.64	155.19
For Auxiliary Frame Reinforcement For Hinges, Add	42.49	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	33.99	
For Type 304 Stainless Steel Frame, Add	525.39	
For Type 316 Stainless Steel Frame, Add	610.37	
For Baked Enamel Finish, Add	131.54	
For 18 Gauge Frame, Deduct	-28.33	
For 14 Gauge Frame, Add	70.82	
For 12 Gauge Frame, Add	107.64	
08 12 13 13-0066 EA 8' x >7'-2" Through 9' High, 5-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	616.66	158.12
For Auxiliary Frame Reinforcement For Hinges, Add	45.06	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	36.05	
For Type 304 Stainless Steel Frame, Add	556.57	
For Type 316 Stainless Steel Frame, Add	646.69	
For Baked Enamel Finish, Add	137.56	
For 18 Gauge Frame, Deduct	-30.04	
For 14 Gauge Frame, Add	75.11	
For 12 Gauge Frame, Add	114.16	
08 12 13 13-0067 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13)		
Note: For non-rated or fire rated frame assemblies		
08 12 13 13-0068 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames (08 12 13 13-0067)		
08 12 13 13-0069 EA 2' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	432.51	87.85
For Auxiliary Frame Reinforcement For Hinges, Add	38.52	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	30.82	
For Type 304 Stainless Steel Frame, Add	471.08	
For Type 316 Stainless Steel Frame, Add	548.13	
For Baked Enamel Finish, Add	103.40	
For 18 Gauge Frame, Deduct	-25.68	
For 14 Gauge Frame, Add	64.21	
For 12 Gauge Frame, Add	97.60	
08 12 13 13-0070 EA 2'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	498.99	96.62
For Auxiliary Frame Reinforcement For Hinges, Add	45.86	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	36.69	
For Type 304 Stainless Steel Frame, Add	559.99	
For Type 316 Stainless Steel Frame, Add	651.72	
For Baked Enamel Finish, Add	120.71	
For 18 Gauge Frame, Deduct	-30.57	
For 14 Gauge Frame, Add	76.44	
For 12 Gauge Frame, Add	116.18	
08 12 13 13-0071 EA 2'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	515.61	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	46.60	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	37.28	
For Type 304 Stainless Steel Frame, Add	569.40	
For Type 316 Stainless Steel Frame, Add	662.59	
For Baked Enamel Finish, Add	123.94	
For 18 Gauge Frame, Deduct	-31.06	
For 14 Gauge Frame, Add	77.66	
For 12 Gauge Frame, Add	118.04	
08 12 13 13-0072 EA 2'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	533.17	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	46.60	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	37.28	
For Type 304 Stainless Steel Frame, Add	570.28	
For Type 316 Stainless Steel Frame, Add	663.47	
For Baked Enamel Finish, Add	126.57	
For 18 Gauge Frame, Deduct	-31.06	
For 14 Gauge Frame, Add	77.66	
For 12 Gauge Frame, Add	118.04	
08 12 13 13-0073 EA 2'-10" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	543.92	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	47.33	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	37.86	
For Type 304 Stainless Steel Frame, Add	579.37	
For Type 316 Stainless Steel Frame, Add	674.03	
For Baked Enamel Finish, Add	128.92	
For 18 Gauge Frame, Deduct	-31.55	
For 14 Gauge Frame, Add	78.88	
For 12 Gauge Frame, Add	119.90	
08 12 13 13-0074 EA 3' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	554.67	117.12
For Auxiliary Frame Reinforcement For Hinges, Add	48.06	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	38.45	
For Type 304 Stainless Steel Frame, Add	588.47	
For Type 316 Stainless Steel Frame, Add	684.59	
For Baked Enamel Finish, Add	131.26	
For 18 Gauge Frame, Deduct	-32.04	
For 14 Gauge Frame, Add	80.11	
For 12 Gauge Frame, Add	121.76	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0075	EA		3'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	588.38	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	51.36	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	41.09	
			<i>For Type 304 Stainless Steel Frame, Add</i>	628.67	
			<i>For Type 316 Stainless Steel Frame, Add</i>	731.40	
			<i>For Baked Enamel Finish, Add</i>	139.62	
			<i>For 18 Gauge Frame, Deduct</i>	-34.24	
			<i>For 14 Gauge Frame, Add</i>	85.61	
			<i>For 12 Gauge Frame, Add</i>	130.12	
08 12 13 13-0076	EA		3'-6" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	600.10	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	51.36	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	41.09	
			<i>For Type 304 Stainless Steel Frame, Add</i>	629.26	
			<i>For Type 316 Stainless Steel Frame, Add</i>	731.99	
			<i>For Baked Enamel Finish, Add</i>	141.38	
			<i>For 18 Gauge Frame, Deduct</i>	-34.24	
			<i>For 14 Gauge Frame, Add</i>	85.61	
			<i>For 12 Gauge Frame, Add</i>	130.12	
08 12 13 13-0077	EA		4' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	624.04	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	53.20	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	42.56	
			<i>For Type 304 Stainless Steel Frame, Add</i>	651.86	
			<i>For Type 316 Stainless Steel Frame, Add</i>	758.26	
			<i>For Baked Enamel Finish, Add</i>	146.81	
			<i>For 18 Gauge Frame, Deduct</i>	-35.47	
			<i>For 14 Gauge Frame, Add</i>	88.67	
			<i>For 12 Gauge Frame, Add</i>	134.77	
08 12 13 13-0078	EA		5' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	647.99	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	55.03	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	44.03	
			<i>For Type 304 Stainless Steel Frame, Add</i>	674.46	
			<i>For Type 316 Stainless Steel Frame, Add</i>	784.52	
			<i>For Baked Enamel Finish, Add</i>	152.23	
			<i>For 18 Gauge Frame, Deduct</i>	-36.69	
			<i>For 14 Gauge Frame, Add</i>	91.72	
			<i>For 12 Gauge Frame, Add</i>	139.42	
08 12 13 13-0079	EA		5'-4" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	659.70	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	55.03	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	44.03	
			<i>For Type 304 Stainless Steel Frame, Add</i>	675.04	
			<i>For Type 316 Stainless Steel Frame, Add</i>	785.11	
			<i>For Baked Enamel Finish, Add</i>	153.99	
			<i>For 18 Gauge Frame, Deduct</i>	-36.69	
			<i>For 14 Gauge Frame, Add</i>	91.72	
			<i>For 12 Gauge Frame, Add</i>	139.42	
08 12 13 13-0080	EA		5'-8" x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	671.67	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	55.95	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	44.76	
			<i>For Type 304 Stainless Steel Frame, Add</i>	686.35	
			<i>For Type 316 Stainless Steel Frame, Add</i>	798.25	
			<i>For Baked Enamel Finish, Add</i>	156.70	
			<i>For 18 Gauge Frame, Deduct</i>	-37.30	
			<i>For 14 Gauge Frame, Add</i>	93.25	
			<i>For 12 Gauge Frame, Add</i>	141.74	
08 12 13 13-0081	EA		6' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	683.64	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	56.87	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	45.49	
			<i>For Type 304 Stainless Steel Frame, Add</i>	697.64	
			<i>For Type 316 Stainless Steel Frame, Add</i>	811.38	
			<i>For Baked Enamel Finish, Add</i>	159.41	
			<i>For 18 Gauge Frame, Deduct</i>	-37.91	
			<i>For 14 Gauge Frame, Add</i>	94.78	
			<i>For 12 Gauge Frame, Add</i>	144.07	
08 12 13 13-0082	EA		7' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	713.96	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	60.54	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	48.43	
			<i>For Type 304 Stainless Steel Frame, Add</i>	741.96	
			<i>For Type 316 Stainless Steel Frame, Add</i>	863.04	
			<i>For Baked Enamel Finish, Add</i>	167.63	
			<i>For 18 Gauge Frame, Deduct</i>	-40.36	
			<i>For 14 Gauge Frame, Add</i>	100.90	
			<i>For 12 Gauge Frame, Add</i>	153.36	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0083 EA 8' x 6'-8" Through 7'-2" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	744.28	158.12
For Auxiliary Frame Reinforcement For Hinges, Add	64.21	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	51.36	
For Type 304 Stainless Steel Frame, Add	786.28	
For Type 316 Stainless Steel Frame, Add	914.70	
For Baked Enamel Finish, Add	175.85	
For 18 Gauge Frame, Deduct	-42.80	
For 14 Gauge Frame, Add	107.01	
For 12 Gauge Frame, Add	162.66	
08 12 13 13-0084 >7'-2" Through 9'-0" High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0067)</small>		
08 12 13 13-0085 EA 2' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	461.04	87.85
For Auxiliary Frame Reinforcement For Hinges, Add	42.80	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	34.24	
For Type 304 Stainless Steel Frame, Add	522.43	
For Type 316 Stainless Steel Frame, Add	608.04	
For Baked Enamel Finish, Add	111.96	
For 18 Gauge Frame, Deduct	-28.54	
For 14 Gauge Frame, Add	71.34	
For 12 Gauge Frame, Add	108.44	
08 12 13 13-0086 EA 2'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	532.97	96.62
For Auxiliary Frame Reinforcement For Hinges, Add	50.96	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	40.77	
For Type 304 Stainless Steel Frame, Add	621.16	
For Type 316 Stainless Steel Frame, Add	723.07	
For Baked Enamel Finish, Add	130.90	
For 18 Gauge Frame, Deduct	-33.97	
For 14 Gauge Frame, Add	84.93	
For 12 Gauge Frame, Add	129.09	
08 12 13 13-0087 EA 2'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	550.12	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	51.77	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	41.42	
For Type 304 Stainless Steel Frame, Add	631.52	
For Type 316 Stainless Steel Frame, Add	735.06	
For Baked Enamel Finish, Add	134.29	
For 18 Gauge Frame, Deduct	-34.52	
For 14 Gauge Frame, Add	86.29	
For 12 Gauge Frame, Add	131.16	
08 12 13 13-0088 EA 2'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	567.68	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	51.77	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	41.42	
For Type 304 Stainless Steel Frame, Add	632.40	
For Type 316 Stainless Steel Frame, Add	735.94	
For Baked Enamel Finish, Add	136.92	
For 18 Gauge Frame, Deduct	-34.52	
For 14 Gauge Frame, Add	86.29	
For 12 Gauge Frame, Add	131.16	
08 12 13 13-0089 EA 2'-10" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	578.98	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	52.59	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	42.07	
For Type 304 Stainless Steel Frame, Add	642.48	
For Type 316 Stainless Steel Frame, Add	747.66	
For Baked Enamel Finish, Add	139.44	
For 18 Gauge Frame, Deduct	-35.06	
For 14 Gauge Frame, Add	87.65	
For 12 Gauge Frame, Add	133.22	
08 12 13 13-0090 EA 3' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	590.27	117.12
For Auxiliary Frame Reinforcement For Hinges, Add	53.40	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	42.72	
For Type 304 Stainless Steel Frame, Add	652.55	
For Type 316 Stainless Steel Frame, Add	759.35	
For Baked Enamel Finish, Add	141.94	
For 18 Gauge Frame, Deduct	-35.60	
For 14 Gauge Frame, Add	89.01	
For 12 Gauge Frame, Add	135.29	
08 12 13 13-0091 EA 3'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	626.43	122.98
For Auxiliary Frame Reinforcement For Hinges, Add	57.07	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	45.66	
For Type 304 Stainless Steel Frame, Add	697.16	
For Type 316 Stainless Steel Frame, Add	811.31	
For Baked Enamel Finish, Add	151.04	
For 18 Gauge Frame, Deduct	-38.05	
For 14 Gauge Frame, Add	95.12	
For 12 Gauge Frame, Add	144.58	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0092	EA		3'-6" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	638.15	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	57.07	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	45.66	
			<i>For Type 304 Stainless Steel Frame, Add</i>	697.75	
			<i>For Type 316 Stainless Steel Frame, Add</i>	811.89	
			<i>For Baked Enamel Finish, Add</i>	152.79	
			<i>For 18 Gauge Frame, Deduct</i>	-38.05	
			<i>For 14 Gauge Frame, Add</i>	95.12	
			<i>For 12 Gauge Frame, Add</i>	144.58	
08 12 13 13-0093	EA		4' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	663.45	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	59.11	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	47.29	
			<i>For Type 304 Stainless Steel Frame, Add</i>	722.80	
			<i>For Type 316 Stainless Steel Frame, Add</i>	841.02	
			<i>For Baked Enamel Finish, Add</i>	158.63	
			<i>For 18 Gauge Frame, Deduct</i>	-39.41	
			<i>For 14 Gauge Frame, Add</i>	98.52	
			<i>For 12 Gauge Frame, Add</i>	149.75	
08 12 13 13-0094	EA		5' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	688.76	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	61.15	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	48.92	
			<i>For Type 304 Stainless Steel Frame, Add</i>	747.84	
			<i>For Type 316 Stainless Steel Frame, Add</i>	870.14	
			<i>For Baked Enamel Finish, Add</i>	164.46	
			<i>For 18 Gauge Frame, Deduct</i>	-40.77	
			<i>For 14 Gauge Frame, Add</i>	101.92	
			<i>For 12 Gauge Frame, Add</i>	154.91	
08 12 13 13-0095	EA		5'-4" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	700.47	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	61.15	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	48.92	
			<i>For Type 304 Stainless Steel Frame, Add</i>	748.43	
			<i>For Type 316 Stainless Steel Frame, Add</i>	870.73	
			<i>For Baked Enamel Finish, Add</i>	166.22	
			<i>For 18 Gauge Frame, Deduct</i>	-40.77	
			<i>For 14 Gauge Frame, Add</i>	101.92	
			<i>For 12 Gauge Frame, Add</i>	154.91	
08 12 13 13-0096	EA		5'-8" x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	713.11	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	62.17	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	49.73	
			<i>For Type 304 Stainless Steel Frame, Add</i>	760.94	
			<i>For Type 316 Stainless Steel Frame, Add</i>	885.28	
			<i>For Baked Enamel Finish, Add</i>	169.13	
			<i>For 18 Gauge Frame, Deduct</i>	-41.45	
			<i>For 14 Gauge Frame, Add</i>	103.61	
			<i>For 12 Gauge Frame, Add</i>	157.49	
08 12 13 13-0097	EA		6' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	725.77	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	63.19	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	50.55	
			<i>For Type 304 Stainless Steel Frame, Add</i>	773.48	
			<i>For Type 316 Stainless Steel Frame, Add</i>	899.85	
			<i>For Baked Enamel Finish, Add</i>	172.05	
			<i>For 18 Gauge Frame, Deduct</i>	-42.13	
			<i>For 14 Gauge Frame, Add</i>	105.31	
			<i>For 12 Gauge Frame, Add</i>	160.08	
08 12 13 13-0098	EA		7' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	758.80	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	67.26	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	53.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	822.68	
			<i>For Type 316 Stainless Steel Frame, Add</i>	957.20	
			<i>For Baked Enamel Finish, Add</i>	181.08	
			<i>For 18 Gauge Frame, Deduct</i>	-44.84	
			<i>For 14 Gauge Frame, Add</i>	112.11	
			<i>For 12 Gauge Frame, Add</i>	170.40	
08 12 13 13-0099	EA		8' x >7'-2" Through 9' High, 6-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	791.84	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	71.34	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	57.07	
			<i>For Type 304 Stainless Steel Frame, Add</i>	871.89	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,014.57	
			<i>For Baked Enamel Finish, Add</i>	190.12	
			<i>For 18 Gauge Frame, Deduct</i>	-47.56	
			<i>For 14 Gauge Frame, Add</i>	118.90	
			<i>For 12 Gauge Frame, Add</i>	180.73	

08 12 13 13-0100 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door
Frames (08 12 13 13)

Note: For non-rated or fire rated frame assemblies



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0101 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0100)</small>		
08 12 13 13-0102 EA 2' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	451.77	87.85
For Auxiliary Frame Reinforcement For Hinges, Add	41.41	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	33.13	
For Type 304 Stainless Steel Frame, Add	505.75	
For Type 316 Stainless Steel Frame, Add	588.57	
For Baked Enamel Finish, Add	109.18	
For 18 Gauge Frame, Deduct	-27.61	
For 14 Gauge Frame, Add	69.02	
For 12 Gauge Frame, Add	104.91	
08 12 13 13-0103 EA 2'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	521.92	96.62
For Auxiliary Frame Reinforcement For Hinges, Add	49.30	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	39.44	
For Type 304 Stainless Steel Frame, Add	601.27	
For Type 316 Stainless Steel Frame, Add	699.87	
For Baked Enamel Finish, Add	127.59	
For 18 Gauge Frame, Deduct	-32.87	
For 14 Gauge Frame, Add	82.17	
For 12 Gauge Frame, Add	124.89	
08 12 13 13-0104 EA 2'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	538.90	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	50.09	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	40.07	
For Type 304 Stainless Steel Frame, Add	611.32	
For Type 316 Stainless Steel Frame, Add	711.50	
For Baked Enamel Finish, Add	130.92	
For 18 Gauge Frame, Deduct	-33.39	
For 14 Gauge Frame, Add	83.48	
For 12 Gauge Frame, Add	126.89	
08 12 13 13-0105 EA 2'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	556.46	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	50.09	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	40.07	
For Type 304 Stainless Steel Frame, Add	612.20	
For Type 316 Stainless Steel Frame, Add	712.38	
For Baked Enamel Finish, Add	133.56	
For 18 Gauge Frame, Deduct	-33.39	
For 14 Gauge Frame, Add	83.48	
For 12 Gauge Frame, Add	126.89	
08 12 13 13-0106 EA 2'-10" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	567.58	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	50.88	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	40.70	
For Type 304 Stainless Steel Frame, Add	621.96	
For Type 316 Stainless Steel Frame, Add	723.72	
For Baked Enamel Finish, Add	136.02	
For 18 Gauge Frame, Deduct	-33.92	
For 14 Gauge Frame, Add	84.80	
For 12 Gauge Frame, Add	128.89	
08 12 13 13-0107 EA 3' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	578.70	117.12
For Auxiliary Frame Reinforcement For Hinges, Add	51.67	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	41.33	
For Type 304 Stainless Steel Frame, Add	631.72	
For Type 316 Stainless Steel Frame, Add	735.06	
For Baked Enamel Finish, Add	138.47	
For 18 Gauge Frame, Deduct	-34.45	
For 14 Gauge Frame, Add	86.11	
For 12 Gauge Frame, Add	130.89	
08 12 13 13-0108 EA 3'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	614.07	122.98
For Auxiliary Frame Reinforcement For Hinges, Add	55.22	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	44.17	
For Type 304 Stainless Steel Frame, Add	674.91	
For Type 316 Stainless Steel Frame, Add	785.35	
For Baked Enamel Finish, Add	147.33	
For 18 Gauge Frame, Deduct	-36.81	
For 14 Gauge Frame, Add	92.03	
For 12 Gauge Frame, Add	139.89	
08 12 13 13-0109 EA 3'-6" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	625.79	128.84
For Auxiliary Frame Reinforcement For Hinges, Add	55.22	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	44.17	
For Type 304 Stainless Steel Frame, Add	675.50	
For Type 316 Stainless Steel Frame, Add	785.94	
For Baked Enamel Finish, Add	149.09	
For 18 Gauge Frame, Deduct	-36.81	
For 14 Gauge Frame, Add	92.03	
For 12 Gauge Frame, Add	139.89	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0110	EA		4' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	650.64	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	57.19	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	45.75	
			<i>For Type 304 Stainless Steel Frame, Add</i>	699.74	
			<i>For Type 316 Stainless Steel Frame, Add</i>	814.12	
			<i>For Baked Enamel Finish, Add</i>	154.79	
			<i>For 18 Gauge Frame, Deduct</i>	-38.13	
			<i>For 14 Gauge Frame, Add</i>	95.32	
			<i>For 12 Gauge Frame, Add</i>	144.88	
08 12 13 13-0111	EA		5' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	675.51	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	59.16	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	47.33	
			<i>For Type 304 Stainless Steel Frame, Add</i>	723.99	
			<i>For Type 316 Stainless Steel Frame, Add</i>	842.32	
			<i>For Baked Enamel Finish, Add</i>	160.49	
			<i>For 18 Gauge Frame, Deduct</i>	-39.44	
			<i>For 14 Gauge Frame, Add</i>	98.60	
			<i>For 12 Gauge Frame, Add</i>	149.88	
08 12 13 13-0112	EA		5'-4" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	687.22	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	59.16	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	47.33	
			<i>For Type 304 Stainless Steel Frame, Add</i>	724.58	
			<i>For Type 316 Stainless Steel Frame, Add</i>	842.90	
			<i>For Baked Enamel Finish, Add</i>	162.24	
			<i>For 18 Gauge Frame, Deduct</i>	-39.44	
			<i>For 14 Gauge Frame, Add</i>	98.60	
			<i>For 12 Gauge Frame, Add</i>	149.88	
08 12 13 13-0113	EA		5'-8" x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	699.64	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	60.15	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	48.12	
			<i>For Type 304 Stainless Steel Frame, Add</i>	736.70	
			<i>For Type 316 Stainless Steel Frame, Add</i>	856.99	
			<i>For Baked Enamel Finish, Add</i>	165.09	
			<i>For 18 Gauge Frame, Deduct</i>	-40.10	
			<i>For 14 Gauge Frame, Add</i>	100.25	
			<i>For 12 Gauge Frame, Add</i>	152.37	
08 12 13 13-0114	EA		6' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	712.08	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	61.13	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	48.91	
			<i>For Type 304 Stainless Steel Frame, Add</i>	748.83	
			<i>For Type 316 Stainless Steel Frame, Add</i>	871.10	
			<i>For Baked Enamel Finish, Add</i>	167.95	
			<i>For 18 Gauge Frame, Deduct</i>	-40.76	
			<i>For 14 Gauge Frame, Add</i>	101.89	
			<i>For 12 Gauge Frame, Add</i>	154.87	
08 12 13 13-0115	EA		7' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	744.23	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	65.08	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	52.06	
			<i>For Type 304 Stainless Steel Frame, Add</i>	796.45	
			<i>For Type 316 Stainless Steel Frame, Add</i>	926.60	
			<i>For Baked Enamel Finish, Add</i>	176.71	
			<i>For 18 Gauge Frame, Deduct</i>	-43.39	
			<i>For 14 Gauge Frame, Add</i>	108.46	
			<i>For 12 Gauge Frame, Add</i>	164.86	
08 12 13 13-0116	EA		8' x 6'-8" Through 7'-2" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	776.39	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	69.02	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	55.22	
			<i>For Type 304 Stainless Steel Frame, Add</i>	844.08	
			<i>For Type 316 Stainless Steel Frame, Add</i>	982.13	
			<i>For Baked Enamel Finish, Add</i>	185.48	
			<i>For 18 Gauge Frame, Deduct</i>	-46.02	
			<i>For 14 Gauge Frame, Add</i>	115.04	
			<i>For 12 Gauge Frame, Add</i>	174.86	
08 12 13 13-0117			>7'-2" Through 9'-0" High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0100)</small>		
08 12 13 13-0118	EA		2' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	482.44	87.85
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	46.01	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	36.81	
			<i>For Type 304 Stainless Steel Frame, Add</i>	560.95	
			<i>For Type 316 Stainless Steel Frame, Add</i>	652.98	
			<i>For Baked Enamel Finish, Add</i>	118.38	
			<i>For 18 Gauge Frame, Deduct</i>	-30.68	
			<i>For 14 Gauge Frame, Add</i>	76.69	
			<i>For 12 Gauge Frame, Add</i>	116.57	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0119 EA 2'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	558.44	96.62
For Auxiliary Frame Reinforcement For Hinges, Add	54.78	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	43.82	
For Type 304 Stainless Steel Frame, Add	667.00	
For Type 316 Stainless Steel Frame, Add	776.56	
For Baked Enamel Finish, Add	138.54	
For 18 Gauge Frame, Deduct	-36.52	
For 14 Gauge Frame, Add	91.30	
For 12 Gauge Frame, Add	138.77	
08 12 13 13-0120 EA 2'-6" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	576.01	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	55.66	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	44.52	
For Type 304 Stainless Steel Frame, Add	678.12	
For Type 316 Stainless Steel Frame, Add	789.43	
For Baked Enamel Finish, Add	142.06	
For 18 Gauge Frame, Deduct	-37.10	
For 14 Gauge Frame, Add	92.76	
For 12 Gauge Frame, Add	141.00	
08 12 13 13-0121 EA 2'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	593.57	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	55.66	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	44.52	
For Type 304 Stainless Steel Frame, Add	679.00	
For Type 316 Stainless Steel Frame, Add	790.31	
For Baked Enamel Finish, Add	144.69	
For 18 Gauge Frame, Deduct	-37.10	
For 14 Gauge Frame, Add	92.76	
For 12 Gauge Frame, Add	141.00	
08 12 13 13-0122 EA 2'-10" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	605.27	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	56.53	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	45.23	
For Type 304 Stainless Steel Frame, Add	689.80	
For Type 316 Stainless Steel Frame, Add	802.87	
For Baked Enamel Finish, Add	147.32	
For 18 Gauge Frame, Deduct	-37.69	
For 14 Gauge Frame, Add	94.22	
For 12 Gauge Frame, Add	143.21	
08 12 13 13-0123 EA 3' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	616.97	117.12
For Auxiliary Frame Reinforcement For Hinges, Add	57.41	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	45.93	
For Type 304 Stainless Steel Frame, Add	700.61	
For Type 316 Stainless Steel Frame, Add	815.42	
For Baked Enamel Finish, Add	149.95	
For 18 Gauge Frame, Deduct	-38.27	
For 14 Gauge Frame, Add	95.68	
For 12 Gauge Frame, Add	145.43	
08 12 13 13-0124 EA 3'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	654.97	122.98
For Auxiliary Frame Reinforcement For Hinges, Add	61.35	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	49.08	
For Type 304 Stainless Steel Frame, Add	748.53	
For Type 316 Stainless Steel Frame, Add	871.24	
For Baked Enamel Finish, Add	159.60	
For 18 Gauge Frame, Deduct	-40.90	
For 14 Gauge Frame, Add	102.26	
For 12 Gauge Frame, Add	155.43	
08 12 13 13-0125 EA 3'-6" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	666.69	128.84
For Auxiliary Frame Reinforcement For Hinges, Add	61.35	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	49.08	
For Type 304 Stainless Steel Frame, Add	749.12	
For Type 316 Stainless Steel Frame, Add	871.83	
For Baked Enamel Finish, Add	161.36	
For 18 Gauge Frame, Deduct	-40.90	
For 14 Gauge Frame, Add	102.26	
For 12 Gauge Frame, Add	155.43	
08 12 13 13-0126 EA 4' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	693.01	134.69
For Auxiliary Frame Reinforcement For Hinges, Add	63.54	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	50.84	
For Type 304 Stainless Steel Frame, Add	776.00	
For Type 316 Stainless Steel Frame, Add	903.09	
For Baked Enamel Finish, Add	167.50	
For 18 Gauge Frame, Deduct	-42.36	
For 14 Gauge Frame, Add	105.91	
For 12 Gauge Frame, Add	160.98	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0127	EA		5' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	719.33	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	65.73	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	52.59	
			<i>For Type 304 Stainless Steel Frame, Add</i>	802.87	
			<i>For Type 316 Stainless Steel Frame, Add</i>	934.34	
			<i>For Baked Enamel Finish, Add</i>	173.63	
			<i>For 18 Gauge Frame, Deduct</i>	-43.82	
			<i>For 14 Gauge Frame, Add</i>	109.56	
			<i>For 12 Gauge Frame, Add</i>	166.53	
08 12 13 13-0128	EA		5'-4" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	731.04	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	65.73	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	52.59	
			<i>For Type 304 Stainless Steel Frame, Add</i>	803.45	
			<i>For Type 316 Stainless Steel Frame, Add</i>	934.92	
			<i>For Baked Enamel Finish, Add</i>	175.39	
			<i>For 18 Gauge Frame, Deduct</i>	-43.82	
			<i>For 14 Gauge Frame, Add</i>	109.56	
			<i>For 12 Gauge Frame, Add</i>	166.53	
08 12 13 13-0129	EA		5'-8" x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	744.20	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	66.83	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	53.46	
			<i>For Type 304 Stainless Steel Frame, Add</i>	816.91	
			<i>For Type 316 Stainless Steel Frame, Add</i>	950.57	
			<i>For Baked Enamel Finish, Add</i>	178.46	
			<i>For 18 Gauge Frame, Deduct</i>	-44.55	
			<i>For 14 Gauge Frame, Add</i>	111.39	
			<i>For 12 Gauge Frame, Add</i>	169.31	
08 12 13 13-0130	EA		6' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	757.36	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	67.93	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	54.34	
			<i>For Type 304 Stainless Steel Frame, Add</i>	830.34	
			<i>For Type 316 Stainless Steel Frame, Add</i>	966.19	
			<i>For Baked Enamel Finish, Add</i>	181.53	
			<i>For 18 Gauge Frame, Deduct</i>	-45.28	
			<i>For 14 Gauge Frame, Add</i>	113.21	
			<i>For 12 Gauge Frame, Add</i>	172.08	
08 12 13 13-0131	EA		7' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	792.43	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	72.31	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	57.85	
			<i>For Type 304 Stainless Steel Frame, Add</i>	883.21	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,027.82	
			<i>For Baked Enamel Finish, Add</i>	191.17	
			<i>For 18 Gauge Frame, Deduct</i>	-48.21	
			<i>For 14 Gauge Frame, Add</i>	120.51	
			<i>For 12 Gauge Frame, Add</i>	183.18	
08 12 13 13-0132	EA		8' x >7'-2" Through 9' High, 6-7/8" Through 8-3/4" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	827.51	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	76.69	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	61.35	
			<i>For Type 304 Stainless Steel Frame, Add</i>	936.10	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,089.48	
			<i>For Baked Enamel Finish, Add</i>	200.82	
			<i>For 18 Gauge Frame, Deduct</i>	-51.13	
			<i>For 14 Gauge Frame, Add</i>	127.82	
			<i>For 12 Gauge Frame, Add</i>	194.28	
08 12 13 13-0133			8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13)</small>		
			Note: For non-rated or fire rated frame assemblies		
08 12 13 13-0134			6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0133)</small>		
08 12 13 13-0135	EA		2' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	464.61	87.85
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	43.34	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	34.67	
			<i>For Type 304 Stainless Steel Frame, Add</i>	528.86	
			<i>For Type 316 Stainless Steel Frame, Add</i>	615.54	
			<i>For Baked Enamel Finish, Add</i>	113.03	
			<i>For 18 Gauge Frame, Deduct</i>	-28.89	
			<i>For 14 Gauge Frame, Add</i>	72.23	
			<i>For 12 Gauge Frame, Add</i>	109.79	



Openings	08
Doors and Frames	08 10
Metal Frames	08 12

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0136	EA		2'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	537.21	96.62
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	51.59	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	41.28	
			<i>For Type 304 Stainless Steel Frame, Add</i>	628.79	
			<i>For Type 316 Stainless Steel Frame, Add</i>	731.98	
			<i>For Baked Enamel Finish, Add</i>	132.18	
			<i>For 18 Gauge Frame, Deduct</i>	-34.40	
			<i>For 14 Gauge Frame, Add</i>	85.99	
			<i>For 12 Gauge Frame, Add</i>	130.70	
08 12 13 13-0137	EA		2'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	554.44	102.48
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	52.42	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	41.94	
			<i>For Type 304 Stainless Steel Frame, Add</i>	639.29	
			<i>For Type 316 Stainless Steel Frame, Add</i>	744.14	
			<i>For Baked Enamel Finish, Add</i>	135.59	
			<i>For 18 Gauge Frame, Deduct</i>	-34.95	
			<i>For 14 Gauge Frame, Add</i>	87.37	
			<i>For 12 Gauge Frame, Add</i>	132.80	
08 12 13 13-0138	EA		2'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	572.00	111.27
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	52.42	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	41.94	
			<i>For Type 304 Stainless Steel Frame, Add</i>	640.17	
			<i>For Type 316 Stainless Steel Frame, Add</i>	745.01	
			<i>For Baked Enamel Finish, Add</i>	138.22	
			<i>For 18 Gauge Frame, Deduct</i>	-34.95	
			<i>For 14 Gauge Frame, Add</i>	87.37	
			<i>For 12 Gauge Frame, Add</i>	132.80	
08 12 13 13-0139	EA		2'-10" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	583.36	114.20
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	53.25	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	42.60	
			<i>For Type 304 Stainless Steel Frame, Add</i>	650.37	
			<i>For Type 316 Stainless Steel Frame, Add</i>	756.86	
			<i>For Baked Enamel Finish, Add</i>	140.75	
			<i>For 18 Gauge Frame, Deduct</i>	-35.50	
			<i>For 14 Gauge Frame, Add</i>	88.74	
			<i>For 12 Gauge Frame, Add</i>	134.89	
08 12 13 13-0140	EA		3' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	594.72	117.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	54.07	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	43.26	
			<i>For Type 304 Stainless Steel Frame, Add</i>	660.56	
			<i>For Type 316 Stainless Steel Frame, Add</i>	768.70	
			<i>For Baked Enamel Finish, Add</i>	143.28	
			<i>For 18 Gauge Frame, Deduct</i>	-36.05	
			<i>For 14 Gauge Frame, Add</i>	90.12	
			<i>For 12 Gauge Frame, Add</i>	136.98	
08 12 13 13-0141	EA		3'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	631.19	122.98
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	57.79	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	46.23	
			<i>For Type 304 Stainless Steel Frame, Add</i>	705.73	
			<i>For Type 316 Stainless Steel Frame, Add</i>	821.30	
			<i>For Baked Enamel Finish, Add</i>	152.46	
			<i>For 18 Gauge Frame, Deduct</i>	-38.52	
			<i>For 14 Gauge Frame, Add</i>	96.31	
			<i>For 12 Gauge Frame, Add</i>	146.39	
08 12 13 13-0142	EA		3'-6" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	642.91	128.84
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	57.79	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	46.23	
			<i>For Type 304 Stainless Steel Frame, Add</i>	706.32	
			<i>For Type 316 Stainless Steel Frame, Add</i>	821.89	
			<i>For Baked Enamel Finish, Add</i>	154.22	
			<i>For 18 Gauge Frame, Deduct</i>	-38.52	
			<i>For 14 Gauge Frame, Add</i>	96.31	
			<i>For 12 Gauge Frame, Add</i>	146.39	
08 12 13 13-0143	EA		4' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	668.38	134.69
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	59.85	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	47.88	
			<i>For Type 304 Stainless Steel Frame, Add</i>	731.67	
			<i>For Type 316 Stainless Steel Frame, Add</i>	851.37	
			<i>For Baked Enamel Finish, Add</i>	160.11	
			<i>For 18 Gauge Frame, Deduct</i>	-39.90	
			<i>For 14 Gauge Frame, Add</i>	99.75	
			<i>For 12 Gauge Frame, Add</i>	151.62	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0144	EA		5' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	693.85	140.54
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	61.91	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	49.53	
			<i>For Type 304 Stainless Steel Frame, Add</i>	757.01	
			<i>For Type 316 Stainless Steel Frame, Add</i>	880.83	
			<i>For Baked Enamel Finish, Add</i>	165.99	
			<i>For 18 Gauge Frame, Deduct</i>	-41.28	
			<i>For 14 Gauge Frame, Add</i>	103.19	
			<i>For 12 Gauge Frame, Add</i>	156.85	
08 12 13 13-0145	EA		5'-4" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	705.56	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	61.91	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	49.53	
			<i>For Type 304 Stainless Steel Frame, Add</i>	757.59	
			<i>For Type 316 Stainless Steel Frame, Add</i>	881.42	
			<i>For Baked Enamel Finish, Add</i>	167.75	
			<i>For 18 Gauge Frame, Deduct</i>	-41.28	
			<i>For 14 Gauge Frame, Add</i>	103.19	
			<i>For 12 Gauge Frame, Add</i>	156.85	
08 12 13 13-0146	EA		5'-8" x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	718.29	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	62.94	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	50.36	
			<i>For Type 304 Stainless Steel Frame, Add</i>	770.27	
			<i>For Type 316 Stainless Steel Frame, Add</i>	896.16	
			<i>For Baked Enamel Finish, Add</i>	170.69	
			<i>For 18 Gauge Frame, Deduct</i>	-41.96	
			<i>For 14 Gauge Frame, Add</i>	104.91	
			<i>For 12 Gauge Frame, Add</i>	159.46	
08 12 13 13-0147	EA		6' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	731.03	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	63.98	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	51.18	
			<i>For Type 304 Stainless Steel Frame, Add</i>	782.94	
			<i>For Type 316 Stainless Steel Frame, Add</i>	910.90	
			<i>For Baked Enamel Finish, Add</i>	173.63	
			<i>For 18 Gauge Frame, Deduct</i>	-42.65	
			<i>For 14 Gauge Frame, Add</i>	106.63	
			<i>For 12 Gauge Frame, Add</i>	162.07	
08 12 13 13-0148	EA		7' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	764.41	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	68.10	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	54.48	
			<i>For Type 304 Stainless Steel Frame, Add</i>	832.77	
			<i>For Type 316 Stainless Steel Frame, Add</i>	968.98	
			<i>For Baked Enamel Finish, Add</i>	182.77	
			<i>For 18 Gauge Frame, Deduct</i>	-45.40	
			<i>For 14 Gauge Frame, Add</i>	113.51	
			<i>For 12 Gauge Frame, Add</i>	172.53	
08 12 13 13-0149	EA		8' x 6'-8" Through 7'-2" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	797.79	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	72.23	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	57.79	
			<i>For Type 304 Stainless Steel Frame, Add</i>	882.60	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,027.07	
			<i>For Baked Enamel Finish, Add</i>	191.90	
			<i>For 18 Gauge Frame, Deduct</i>	-48.16	
			<i>For 14 Gauge Frame, Add</i>	120.39	
			<i>For 12 Gauge Frame, Add</i>	182.99	
08 12 13 13-0150			>7'-2" Through 9'-0" High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frames <small>(08 12 13 13-0133)</small>		
08 12 13 13-0151	EA		2' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	496.71	87.85
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	48.15	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	38.52	
			<i>For Type 304 Stainless Steel Frame, Add</i>	586.64	
			<i>For Type 316 Stainless Steel Frame, Add</i>	682.95	
			<i>For Baked Enamel Finish, Add</i>	122.66	
			<i>For 18 Gauge Frame, Deduct</i>	-32.10	
			<i>For 14 Gauge Frame, Add</i>	80.26	
			<i>For 12 Gauge Frame, Add</i>	121.99	
08 12 13 13-0152	EA		2'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	575.43	96.62
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	57.33	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	45.86	
			<i>For Type 304 Stainless Steel Frame, Add</i>	697.59	
			<i>For Type 316 Stainless Steel Frame, Add</i>	812.24	
			<i>For Baked Enamel Finish, Add</i>	143.64	
			<i>For 18 Gauge Frame, Deduct</i>	-38.22	
			<i>For 14 Gauge Frame, Add</i>	95.55	
			<i>For 12 Gauge Frame, Add</i>	145.23	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0153 EA 2'-6" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	593.26	102.48
For Auxiliary Frame Reinforcement For Hinges, Add	58.24	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	46.59	
For Type 304 Stainless Steel Frame, Add	709.17	
For Type 316 Stainless Steel Frame, Add	825.66	
For Baked Enamel Finish, Add	147.23	
For 18 Gauge Frame, Deduct	-38.83	
For 14 Gauge Frame, Add	97.07	
For 12 Gauge Frame, Add	147.55	
08 12 13 13-0154 EA 2'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	610.82	111.27
For Auxiliary Frame Reinforcement For Hinges, Add	58.24	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	46.59	
For Type 304 Stainless Steel Frame, Add	710.05	
For Type 316 Stainless Steel Frame, Add	826.54	
For Baked Enamel Finish, Add	149.87	
For 18 Gauge Frame, Deduct	-38.83	
For 14 Gauge Frame, Add	97.07	
For 12 Gauge Frame, Add	147.55	
08 12 13 13-0155 EA 2'-10" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	622.80	114.20
For Auxiliary Frame Reinforcement For Hinges, Add	59.16	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	47.33	
For Type 304 Stainless Steel Frame, Add	721.36	
For Type 316 Stainless Steel Frame, Add	839.68	
For Baked Enamel Finish, Add	152.58	
For 18 Gauge Frame, Deduct	-39.44	
For 14 Gauge Frame, Add	98.60	
For 12 Gauge Frame, Add	149.88	
08 12 13 13-0156 EA 3' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	634.77	117.12
For Auxiliary Frame Reinforcement For Hinges, Add	60.08	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	48.06	
For Type 304 Stainless Steel Frame, Add	732.65	
For Type 316 Stainless Steel Frame, Add	852.80	
For Baked Enamel Finish, Add	155.29	
For 18 Gauge Frame, Deduct	-40.05	
For 14 Gauge Frame, Add	100.13	
For 12 Gauge Frame, Add	152.20	
08 12 13 13-0157 EA 3'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	673.99	122.98
For Auxiliary Frame Reinforcement For Hinges, Add	64.21	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	51.36	
For Type 304 Stainless Steel Frame, Add	782.77	
For Type 316 Stainless Steel Frame, Add	911.18	
For Baked Enamel Finish, Add	165.30	
For 18 Gauge Frame, Deduct	-42.80	
For 14 Gauge Frame, Add	107.01	
For 12 Gauge Frame, Add	162.66	
08 12 13 13-0158 EA 3'-6" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	685.71	128.84
For Auxiliary Frame Reinforcement For Hinges, Add	64.21	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	51.36	
For Type 304 Stainless Steel Frame, Add	783.36	
For Type 316 Stainless Steel Frame, Add	911.77	
For Baked Enamel Finish, Add	167.06	
For 18 Gauge Frame, Deduct	-42.80	
For 14 Gauge Frame, Add	107.01	
For 12 Gauge Frame, Add	162.66	
08 12 13 13-0159 EA 4' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	712.71	134.69
For Auxiliary Frame Reinforcement For Hinges, Add	66.50	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	53.20	
For Type 304 Stainless Steel Frame, Add	811.46	
For Type 316 Stainless Steel Frame, Add	944.46	
For Baked Enamel Finish, Add	173.41	
For 18 Gauge Frame, Deduct	-44.33	
For 14 Gauge Frame, Add	110.83	
For 12 Gauge Frame, Add	168.47	
08 12 13 13-0160 EA 5' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	739.72	140.54
For Auxiliary Frame Reinforcement For Hinges, Add	68.79	
For Welded Frames, Add	85.11	
For Galvanized Frames, Add	55.03	
For Type 304 Stainless Steel Frame, Add	839.57	
For Type 316 Stainless Steel Frame, Add	977.16	
For Baked Enamel Finish, Add	179.75	
For 18 Gauge Frame, Deduct	-45.86	
For 14 Gauge Frame, Add	114.66	
For 12 Gauge Frame, Add	174.28	

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0161	EA		5'-4" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	751.43	146.40
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	68.79	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	55.03	
			<i>For Type 304 Stainless Steel Frame, Add</i>	840.16	
			<i>For Type 316 Stainless Steel Frame, Add</i>	977.74	
			<i>For Baked Enamel Finish, Add</i>	181.51	
			<i>For 18 Gauge Frame, Deduct</i>	-45.86	
			<i>For 14 Gauge Frame, Add</i>	114.66	
			<i>For 12 Gauge Frame, Add</i>	174.28	
08 12 13 13-0162	EA		5'-8" x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame.....	764.92	149.33
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	69.94	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	55.95	
			<i>For Type 304 Stainless Steel Frame, Add</i>	854.20	
			<i>For Type 316 Stainless Steel Frame, Add</i>	994.08	
			<i>For Baked Enamel Finish, Add</i>	184.68	
			<i>For 18 Gauge Frame, Deduct</i>	-46.63	
			<i>For 14 Gauge Frame, Add</i>	116.57	
			<i>For 12 Gauge Frame, Add</i>	177.18	
08 12 13 13-0163	EA		6' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	778.42	152.26
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	71.09	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	56.87	
			<i>For Type 304 Stainless Steel Frame, Add</i>	868.25	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,010.42	
			<i>For Baked Enamel Finish, Add</i>	187.85	
			<i>For 18 Gauge Frame, Deduct</i>	-47.39	
			<i>For 14 Gauge Frame, Add</i>	118.48	
			<i>For 12 Gauge Frame, Add</i>	180.08	
08 12 13 13-0164	EA		7' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	814.85	155.19
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	75.67	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	60.54	
			<i>For Type 304 Stainless Steel Frame, Add</i>	923.57	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,074.91	
			<i>For Baked Enamel Finish, Add</i>	197.90	
			<i>For 18 Gauge Frame, Deduct</i>	-50.45	
			<i>For 14 Gauge Frame, Add</i>	126.12	
			<i>For 12 Gauge Frame, Add</i>	191.70	
08 12 13 13-0165	EA		8' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame	851.29	158.12
			<i>For Auxiliary Frame Reinforcement For Hinges, Add</i>	80.26	
			<i>For Welded Frames, Add</i>	85.11	
			<i>For Galvanized Frames, Add</i>	64.21	
			<i>For Type 304 Stainless Steel Frame, Add</i>	978.90	
			<i>For Type 316 Stainless Steel Frame, Add</i>	1,139.42	
			<i>For Baked Enamel Finish, Add</i>	207.95	
			<i>For 18 Gauge Frame, Deduct</i>	-53.51	
			<i>For 14 Gauge Frame, Add</i>	133.76	
			<i>For 12 Gauge Frame, Add</i>	203.32	
08 12 13 13-0166			Sidelights And Transoms (08 12 13 13)		
			Note: For non-rated or fire rated frame assemblies		
08 12 13 13-0167			Fixed Steel Transoms (08 12 13 13-0166)		
			Note: Excludes glazing.		
08 12 13 13-0168	SF		4-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....	58.78	16.40
			<i>For Movable Frame, Add</i>	11.76	
			<i>For 18 Gauge Frame, Deduct</i>	-2.60	
			<i>For 14 Gauge Frame, Add</i>	6.50	
			<i>For 12 Gauge Frame, Add</i>	9.87	
08 12 13 13-0169	SF		5-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....	61.22	16.98
			<i>For Movable Frame, Add</i>	12.24	
			<i>For 18 Gauge Frame, Deduct</i>	-2.73	
			<i>For 14 Gauge Frame, Add</i>	6.82	
			<i>For 12 Gauge Frame, Add</i>	10.36	
08 12 13 13-0170	SF		6-3/4" Deep, 16 Gauge Frame, Fixed Steel Transom.....	63.77	17.57
			<i>For Movable Frame, Add</i>	12.75	
			<i>For 18 Gauge Frame, Deduct</i>	-2.86	
			<i>For 14 Gauge Frame, Add</i>	7.16	
			<i>For 12 Gauge Frame, Add</i>	10.88	
08 12 13 13-0171			Operable Steel Transom Sash (08 12 13 13-0166)		
			Note: Includes hardware.		
08 12 13 13-0172	SF		4-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash.....	76.34	16.40
			<i>For 18 Gauge Frame, Deduct</i>	-4.35	
			<i>For 14 Gauge Frame, Add</i>	10.89	
			<i>For 12 Gauge Frame, Add</i>	16.55	
08 12 13 13-0173	SF		5-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash.....	79.68	16.98
			<i>For 18 Gauge Frame, Deduct</i>	-4.57	
			<i>For 14 Gauge Frame, Add</i>	11.43	
			<i>For 12 Gauge Frame, Add</i>	17.37	



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0174	SF		6-3/4" Deep, 16 Gauge Frame, Operable Steel Transom Sash..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	83.14 -4.80 12.00 18.24	17.57
08 12 13 13-0175			Sidelights, Steel Frame (08 12 13 13-0166) Note: Excludes glazing.		
08 12 13 13-0176	SF		4-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	60.72 -2.79 6.98 10.61	16.40
08 12 13 13-0177	SF		5-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	63.28 -2.93 7.33 11.14	16.98
08 12 13 13-0178	SF		6-3/4" Deep Sidelights, 16 Gauge Frame <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i>	65.92 -3.08 7.70 11.70	17.57
08 12 13 13-0179			Sundry Hollow Metal Frame Sections (08 12 13 13) Note: For non-rated or fire rated frame assemblies		
08 12 13 13-0180			16 Gauge, Hollow Metal Frame Vertical Mullions (08 12 13 13-0179)		
08 12 13 13-0181	LF		4-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	43.30 -2.68 6.70 10.18 8.00 5.00 4.00	6.56
08 12 13 13-0182	LF		4-3/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	44.38 -2.79 6.97 10.59 8.00 5.00 4.00	6.56
08 12 13 13-0183	LF		5-1/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	43.77 -2.68 6.70 10.18 8.00 5.00 4.00	6.79
08 12 13 13-0184	LF		5-1/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	45.44 -2.85 7.12 10.82 8.00 5.00 4.00	6.79
08 12 13 13-0185	LF		6-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Vertical Mullion <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	45.48 -2.81 7.03 10.69 8.00 5.00 4.00	6.91
08 12 13 13-0186	LF		6-3/4" x 2", 16 Gauge, Hollow Metal Frame Vertical Mullion..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	46.12 -2.88 7.19 10.93 8.00 5.00 4.00	6.91
08 12 13 13-0187			16 Gauge, Hollow Metal Frame Horizontal Rails (08 12 13 13-0179)		
08 12 13 13-0188	LF		4-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	29.90 -1.34 3.35 5.09 8.00 5.00 4.00	6.56
08 12 13 13-0189	LF		4-3/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail..... <i>For 18 Gauge Frame, Deduct</i> <i>For 14 Gauge Frame, Add</i> <i>For 12 Gauge Frame, Add</i> <i>For 3 Hour Frame, Add</i> <i>For 1-1/2 Hour Frame, Add</i> <i>For 3/4 Hour Frame, Add</i>	31.27 -1.48 3.69 5.61 8.00 5.00 4.00	6.56

08 Openings**08 10 Doors and Frames****08 12 Metal Frames**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 13 13-0190	LF		5-1/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail.....	30.37	6.79
			<i>For 18 Gauge Frame, Deduct</i>	-1.34	
			<i>For 14 Gauge Frame, Add</i>	3.35	
			<i>For 12 Gauge Frame, Add</i>	5.09	
			<i>For 3 Hour Frame, Add</i>	8.00	
			<i>For 1-1/2 Hour Frame, Add</i>	5.00	
			<i>For 3/4 Hour Frame, Add</i>	4.00	
08 12 13 13-0191	LF		5-1/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail.....	31.74	6.79
			<i>For 18 Gauge Frame, Deduct</i>	-1.48	
			<i>For 14 Gauge Frame, Add</i>	3.69	
			<i>For 12 Gauge Frame, Add</i>	5.61	
			<i>For 3 Hour Frame, Add</i>	8.00	
			<i>For 1-1/2 Hour Frame, Add</i>	5.00	
			<i>For 3/4 Hour Frame, Add</i>	4.00	
08 12 13 13-0192	LF		6-3/4" x 1-3/4", 16 Gauge, Hollow Metal Frame Horizontal Rail.....	31.42	6.91
			<i>For 18 Gauge Frame, Deduct</i>	-1.41	
			<i>For 14 Gauge Frame, Add</i>	3.52	
			<i>For 12 Gauge Frame, Add</i>	5.35	
			<i>For 3 Hour Frame, Add</i>	8.00	
			<i>For 1-1/2 Hour Frame, Add</i>	5.00	
			<i>For 3/4 Hour Frame, Add</i>	4.00	
08 12 13 13-0193	LF		6-3/4" x 2", 16 Gauge, Hollow Metal Frame Horizontal Rail.....	32.61	6.91
			<i>For 18 Gauge Frame, Deduct</i>	-1.53	
			<i>For 14 Gauge Frame, Add</i>	3.82	
			<i>For 12 Gauge Frame, Add</i>	5.80	
			<i>For 3 Hour Frame, Add</i>	8.00	
			<i>For 1-1/2 Hour Frame, Add</i>	5.00	
			<i>For 3/4 Hour Frame, Add</i>	4.00	
08 12 13 13-0194			16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullions (08 12 13 13-0179)		
08 12 13 13-0195	EA		4-3/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion	1,178.09	45.91
			<i>For 18 Gauge Frame, Deduct</i>	-106.33	
			<i>For 14 Gauge Frame, Add</i>	265.83	
			<i>For 12 Gauge Frame, Add</i>	404.06	
08 12 13 13-0196	EA		4-3/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....	1,220.50	45.91
			<i>For 18 Gauge Frame, Deduct</i>	-110.57	
			<i>For 14 Gauge Frame, Add</i>	276.43	
			<i>For 12 Gauge Frame, Add</i>	420.17	
08 12 13 13-0197	EA		5-1/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion	1,352.77	48.03
			<i>For 18 Gauge Frame, Deduct</i>	-123.45	
			<i>For 14 Gauge Frame, Add</i>	308.62	
			<i>For 12 Gauge Frame, Add</i>	469.10	
			<i>For 3 Hour Frame, Add</i>	56.00	
			<i>For 1-1/2 Hour Frame, Add</i>	36.00	
			<i>For 3/4 Hour Frame, Add</i>	28.00	
08 12 13 13-0198	EA		5-1/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....	1,390.64	48.03
			<i>For 18 Gauge Frame, Deduct</i>	-127.23	
			<i>For 14 Gauge Frame, Add</i>	318.09	
			<i>For 12 Gauge Frame, Add</i>	483.49	
			<i>For 3 Hour Frame, Add</i>	56.00	
			<i>For 1-1/2 Hour Frame, Add</i>	36.00	
			<i>For 3/4 Hour Frame, Add</i>	28.00	
08 12 13 13-0199	EA		6-3/4" x 1-3/4" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion	1,574.05	49.19
			<i>For 18 Gauge Frame, Deduct</i>	-145.11	
			<i>For 14 Gauge Frame, Add</i>	362.77	
			<i>For 12 Gauge Frame, Add</i>	551.41	
			<i>For 3 Hour Frame, Add</i>	56.00	
			<i>For 1-1/2 Hour Frame, Add</i>	36.00	
			<i>For 3/4 Hour Frame, Add</i>	28.00	
08 12 13 13-0200	EA		6-3/4" x 2" x 7'-6", 16 Gauge, Hollow Metal Frame Keyed Removable Vertical Mullion.....	1,599.80	49.19
			<i>For 18 Gauge Frame, Deduct</i>	-147.68	
			<i>For 14 Gauge Frame, Add</i>	369.21	
			<i>For 12 Gauge Frame, Add</i>	561.19	
			<i>For 3 Hour Frame, Add</i>	56.00	
			<i>For 1-1/2 Hour Frame, Add</i>	36.00	
			<i>For 3/4 Hour Frame, Add</i>	28.00	
08 12 13 13-0201			Metal Frames Accessories (08 12 13 13)		
08 12 13 13-0202	EA		For 1' Extension Of New Door Frame	48.09	
08 12 16			Aluminum Frames (08 12)		
08 12 16 00-0001			Two Piece Aluminum Door Frames (08 12 16)		
08 12 16 00-0002			4-1/8" x 3/8" Two Piece Aluminum Door Frames (08 12 16 00-0001)		
08 12 16 00-0003	EA		Two Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....	1,898.57	64.41
08 12 16 00-0004	EA		Two Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-1/8" x 3/8" x 1/8" With Semicircular Head.....	1,898.57	64.41
08 12 16 00-0005			4-3/4" x 1-3/8" Two Piece Aluminum Door Frames (08 12 16 00-0001)		
08 12 16 00-0006	EA		Two Piece Aluminum Door Frame, 2'-2" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head.....	1,898.57	64.41



Openings	08	08
Doors and Frames	08 10	
Metal Frames	08 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 12 16 00-0007 EA Two Piece Aluminum Door Frame Piece Aluminum Door Frame, 2'-6" x 6'-9" Opening 4-3/4" x 1-3/8" x 1/8" With Semicircular Head	1,898.57	64.41
08 13 Metal Doors <small>(08 10)</small>		
Note: Includes machining for all hardware. Excludes frames, finish hardware.		
08 13 13 Hollow Metal Doors <small>(08 13)</small>		
08 13 13 13 Standard Hollow Metal Doors <small>(08 13 13)</small>		
Note: Hollow Metal Doors are full flush, fabricated from cold rolled steel conforming to ASTM A1008, honeycomb core, interlocking mechanical vertical edge seam, with epoxy baked-on primer. Galvanized steel doors are fabricated from a carbon steel sheet that has been coated with zinc on two sides by the continuous hot-dip process. Hollow Metal Doors are organized by the following levels: 20 Gauge, Level 1 Standard Duty; 18 Gauge, Level 2 Heavy Duty; 16 Gauge, Level 3 Extra Heavy Duty; 14 Gauge, Level 4 Maximum Duty.		
08 13 13 13-0001 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13)</small>		
08 13 13 13-0002 6'-8" High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0001)</small>		
08 13 13 13-0003 EA 2' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	746.54	64.41
For Galvanized Steel Door, Add	123.54	
For Type 304 Stainless Steel Door, Add	494.16	
For Type 316 Stainless Steel Door, Add	803.01	
For Embossed Panel Door, Add	148.25	
For Baked Enamel Finish, Add	204.64	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-40.55	
For >100, Deduct	-59.21	
For Polystyrene Core, Add	61.77	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	154.43	
For Continuously Welded And Filled Vertical Edge Seam, Add	77.21	
08 13 13 13-0004 EA 2'-4" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	746.54	64.41
For Galvanized Steel Door, Add	123.54	
For Type 304 Stainless Steel Door, Add	494.16	
For Type 316 Stainless Steel Door, Add	803.01	
For Embossed Panel Door, Add	148.25	
For Baked Enamel Finish, Add	204.64	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-40.55	
For >100, Deduct	-59.21	
For Polystyrene Core, Add	61.77	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	154.43	
For Continuously Welded And Filled Vertical Edge Seam, Add	77.21	
08 13 13 13-0005 EA 2'-6" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	765.03	67.34
For Galvanized Steel Door, Add	126.07	
For Type 304 Stainless Steel Door, Add	504.27	
For Type 316 Stainless Steel Door, Add	819.44	
For Embossed Panel Door, Add	151.28	
For Baked Enamel Finish, Add	209.31	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-41.62	
For >100, Deduct	-60.74	
For Polystyrene Core, Add	63.03	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	157.59	
For Continuously Welded And Filled Vertical Edge Seam, Add	78.79	
08 13 13 13-0006 EA 2'-8" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	774.43	67.34
For Galvanized Steel Door, Add	127.95	
For Type 304 Stainless Steel Door, Add	511.79	
For Type 316 Stainless Steel Door, Add	831.66	
For Embossed Panel Door, Add	153.54	
For Baked Enamel Finish, Add	212.13	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-42.09	
For >100, Deduct	-61.45	
For Polystyrene Core, Add	63.97	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	159.94	
For Continuously Welded And Filled Vertical Edge Seam, Add	79.97	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0007	EA		2'-10" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	781.13	68.81
			<i>For Galvanized Steel Door, Add</i>	128.70	
			<i>For Type 304 Stainless Steel Door, Add</i>	514.81	
			<i>For Type 316 Stainless Steel Door, Add</i>	836.56	
			<i>For Embossed Panel Door, Add</i>	154.44	
			<i>For Baked Enamel Finish, Add</i>	213.70	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-42.50	
			<i>For >100, Deduct</i>	-62.03	
			<i>For Polystyrene Core, Add</i>	64.35	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	160.88	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	80.44	
08 13 13 13-0008	EA		3' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	787.81	70.27
			<i>For Galvanized Steel Door, Add</i>	129.45	
			<i>For Type 304 Stainless Steel Door, Add</i>	517.82	
			<i>For Type 316 Stainless Steel Door, Add</i>	841.45	
			<i>For Embossed Panel Door, Add</i>	155.34	
			<i>For Baked Enamel Finish, Add</i>	215.26	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-42.90	
			<i>For >100, Deduct</i>	-62.60	
			<i>For Polystyrene Core, Add</i>	64.73	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	161.82	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	80.91	
08 13 13 13-0009	EA		3'-4" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	836.73	70.27
			<i>For Galvanized Steel Door, Add</i>	139.24	
			<i>For Type 304 Stainless Steel Door, Add</i>	556.95	
			<i>For Type 316 Stainless Steel Door, Add</i>	905.05	
			<i>For Embossed Panel Door, Add</i>	167.09	
			<i>For Baked Enamel Finish, Add</i>	229.94	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-45.35	
			<i>For >100, Deduct</i>	-66.27	
			<i>For Polystyrene Core, Add</i>	69.62	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	174.05	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	87.02	
08 13 13 13-0010	EA		3'-6" x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	861.41	73.20
			<i>For Galvanized Steel Door, Add</i>	143.00	
			<i>For Type 304 Stainless Steel Door, Add</i>	572.01	
			<i>For Type 316 Stainless Steel Door, Add</i>	929.51	
			<i>For Embossed Panel Door, Add</i>	171.60	
			<i>For Baked Enamel Finish, Add</i>	236.46	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-46.73	
			<i>For >100, Deduct</i>	-68.27	
			<i>For Polystyrene Core, Add</i>	71.50	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	178.75	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	89.38	
08 13 13 13-0011	EA		4' x 6'-8" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	948.39	79.06
			<i>For Galvanized Steel Door, Add</i>	158.05	
			<i>For Type 304 Stainless Steel Door, Add</i>	632.22	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,027.35	
			<i>For Embossed Panel Door, Add</i>	189.66	
			<i>For Baked Enamel Finish, Add</i>	260.80	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-51.37	
			<i>For >100, Deduct</i>	-75.08	
			<i>For Polystyrene Core, Add</i>	79.03	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	197.57	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	98.78	

08 13 13 13-0012 7' High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0001)



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0013 EA 2' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	762.73	64.41
For Galvanized Steel Door, Add	126.78	
For Type 304 Stainless Steel Door, Add	507.11	
For Type 316 Stainless Steel Door, Add	824.06	
For Embossed Panel Door, Add	152.13	
For Baked Enamel Finish, Add	209.49	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-41.36	
For >100, Deduct	-60.43	
For Polystyrene Core, Add	63.39	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	158.47	
For Continuously Welded And Filled Vertical Edge Seam, Add	79.24	
08 13 13 13-0014 EA 2'-4" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	762.73	64.41
For Galvanized Steel Door, Add	126.78	
For Type 304 Stainless Steel Door, Add	507.11	
For Type 316 Stainless Steel Door, Add	824.06	
For Embossed Panel Door, Add	152.13	
For Baked Enamel Finish, Add	209.49	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-41.36	
For >100, Deduct	-60.43	
For Polystyrene Core, Add	63.39	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	158.47	
For Continuously Welded And Filled Vertical Edge Seam, Add	79.24	
08 13 13 13-0015 EA 2'-6" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	781.54	67.34
For Galvanized Steel Door, Add	129.37	
For Type 304 Stainless Steel Door, Add	517.48	
For Type 316 Stainless Steel Door, Add	840.91	
For Embossed Panel Door, Add	155.24	
For Baked Enamel Finish, Add	214.26	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-42.44	
For >100, Deduct	-61.98	
For Polystyrene Core, Add	64.69	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	161.71	
For Continuously Welded And Filled Vertical Edge Seam, Add	80.86	
08 13 13 13-0016 EA 2'-8" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	791.20	67.34
For Galvanized Steel Door, Add	131.30	
For Type 304 Stainless Steel Door, Add	525.21	
For Type 316 Stainless Steel Door, Add	853.46	
For Embossed Panel Door, Add	157.56	
For Baked Enamel Finish, Add	217.16	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-42.93	
For >100, Deduct	-62.71	
For Polystyrene Core, Add	65.65	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	164.13	
For Continuously Welded And Filled Vertical Edge Seam, Add	82.06	
08 13 13 13-0017 EA 2'-10" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door	797.99	68.81
For Galvanized Steel Door, Add	132.07	
For Type 304 Stainless Steel Door, Add	528.30	
For Type 316 Stainless Steel Door, Add	858.48	
For Embossed Panel Door, Add	158.49	
For Baked Enamel Finish, Add	218.75	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.34	
For >100, Deduct	-63.29	
For Polystyrene Core, Add	66.04	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	165.09	
For Continuously Welded And Filled Vertical Edge Seam, Add	82.55	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0018	EA	3' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	804.77	70.27
			<i>For Galvanized Steel Door, Add</i>	132.85	
			<i>For Type 304 Stainless Steel Door, Add</i>	531.38	
			<i>For Type 316 Stainless Steel Door, Add</i>	863.50	
			<i>For Embossed Panel Door, Add</i>	159.42	
			<i>For Baked Enamel Finish, Add</i>	220.35	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-43.75	
			<i>For >100, Deduct</i>	-63.87	
			<i>For Polystyrene Core, Add</i>	66.42	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	166.06	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	83.03	
08 13 13	13-0019	EA	3'-4" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	854.97	70.27
			<i>For Galvanized Steel Door, Add</i>	142.89	
			<i>For Type 304 Stainless Steel Door, Add</i>	571.54	
			<i>For Type 316 Stainless Steel Door, Add</i>	928.76	
			<i>For Embossed Panel Door, Add</i>	171.46	
			<i>For Baked Enamel Finish, Add</i>	235.41	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-46.26	
			<i>For >100, Deduct</i>	-67.64	
			<i>For Polystyrene Core, Add</i>	71.44	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	178.61	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	89.30	
08 13 13	13-0020	EA	3'-6" x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	880.14	73.20
			<i>For Galvanized Steel Door, Add</i>	146.75	
			<i>For Type 304 Stainless Steel Door, Add</i>	586.99	
			<i>For Type 316 Stainless Steel Door, Add</i>	953.86	
			<i>For Embossed Panel Door, Add</i>	176.10	
			<i>For Baked Enamel Finish, Add</i>	242.08	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-47.67	
			<i>For >100, Deduct</i>	-69.67	
			<i>For Polystyrene Core, Add</i>	73.37	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	183.44	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	91.72	
08 13 13	13-0021	EA	4' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	969.10	79.06
			<i>For Galvanized Steel Door, Add</i>	162.20	
			<i>For Type 304 Stainless Steel Door, Add</i>	648.78	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,054.27	
			<i>For Embossed Panel Door, Add</i>	194.64	
			<i>For Baked Enamel Finish, Add</i>	267.01	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-52.41	
			<i>For >100, Deduct</i>	-76.64	
			<i>For Polystyrene Core, Add</i>	81.10	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	202.75	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	101.37	
08 13 13	13-0022		7'-2" High, 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13-0001)</small>		
08 13 13	13-0023	EA	2' x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	778.45	64.41
			<i>For Galvanized Steel Door, Add</i>	129.92	
			<i>For Type 304 Stainless Steel Door, Add</i>	519.69	
			<i>For Type 316 Stainless Steel Door, Add</i>	844.49	
			<i>For Embossed Panel Door, Add</i>	155.91	
			<i>For Baked Enamel Finish, Add</i>	214.21	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-42.14	
			<i>For >100, Deduct</i>	-61.60	
			<i>For Polystyrene Core, Add</i>	64.96	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	162.40	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	81.20	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0024 EA 2'-4" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	778.45	64.41
For Galvanized Steel Door, Add	129.92	
For Type 304 Stainless Steel Door, Add	519.69	
For Type 316 Stainless Steel Door, Add	844.49	
For Embossed Panel Door, Add	155.91	
For Baked Enamel Finish, Add	214.21	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-42.14	
For >100, Deduct	-61.60	
For Polystyrene Core, Add	64.96	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	162.40	
For Continuously Welded And Filled Vertical Edge Seam, Add	81.20	
08 13 13 13-0025 EA 2'-6" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	797.58	67.34
For Galvanized Steel Door, Add	132.58	
For Type 304 Stainless Steel Door, Add	530.31	
For Type 316 Stainless Steel Door, Add	861.76	
For Embossed Panel Door, Add	159.09	
For Baked Enamel Finish, Add	219.07	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.25	
For >100, Deduct	-63.19	
For Polystyrene Core, Add	66.29	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	165.72	
For Continuously Welded And Filled Vertical Edge Seam, Add	82.86	
08 13 13 13-0026 EA 2'-8" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	807.48	67.34
For Galvanized Steel Door, Add	134.56	
For Type 304 Stainless Steel Door, Add	538.23	
For Type 316 Stainless Steel Door, Add	874.63	
For Embossed Panel Door, Add	161.47	
For Baked Enamel Finish, Add	222.04	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.74	
For >100, Deduct	-63.93	
For Polystyrene Core, Add	67.28	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	168.20	
For Continuously Welded And Filled Vertical Edge Seam, Add	84.10	
08 13 13 13-0027 EA 2'-10" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	814.36	68.81
For Galvanized Steel Door, Add	135.35	
For Type 304 Stainless Steel Door, Add	541.39	
For Type 316 Stainless Steel Door, Add	879.76	
For Embossed Panel Door, Add	162.42	
For Baked Enamel Finish, Add	223.67	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.16	
For >100, Deduct	-64.52	
For Polystyrene Core, Add	67.67	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	169.19	
For Continuously Welded And Filled Vertical Edge Seam, Add	84.59	
08 13 13 13-0028 EA 3' x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	821.24	70.27
For Galvanized Steel Door, Add	136.14	
For Type 304 Stainless Steel Door, Add	544.56	
For Type 316 Stainless Steel Door, Add	884.91	
For Embossed Panel Door, Add	163.37	
For Baked Enamel Finish, Add	225.29	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.58	
For >100, Deduct	-65.11	
For Polystyrene Core, Add	68.07	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	170.18	
For Continuously Welded And Filled Vertical Edge Seam, Add	85.09	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0029	EA	3'-4" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	872.69	70.27
			<i>For Galvanized Steel Door, Add</i>	146.43	
			<i>For Type 304 Stainless Steel Door, Add</i>	585.72	
			<i>For Type 316 Stainless Steel Door, Add</i>	951.80	
			<i>For Embossed Panel Door, Add</i>	175.72	
			<i>For Baked Enamel Finish, Add</i>	240.73	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-47.15	
			<i>For >100, Deduct</i>	-68.97	
			<i>For Polystyrene Core, Add</i>	73.22	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	183.04	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	91.52	
08 13 13	13-0030	EA	3'-6" x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	898.34	73.20
			<i>For Galvanized Steel Door, Add</i>	150.39	
			<i>For Type 304 Stainless Steel Door, Add</i>	601.55	
			<i>For Type 316 Stainless Steel Door, Add</i>	977.52	
			<i>For Embossed Panel Door, Add</i>	180.47	
			<i>For Baked Enamel Finish, Add</i>	247.54	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-48.58	
			<i>For >100, Deduct</i>	-71.04	
			<i>For Polystyrene Core, Add</i>	75.19	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	187.99	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	93.99	
08 13 13	13-0031	EA	4' x 7'-2" x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door.....	989.21	79.06
			<i>For Galvanized Steel Door, Add</i>	166.22	
			<i>For Type 304 Stainless Steel Door, Add</i>	664.87	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,080.42	
			<i>For Embossed Panel Door, Add</i>	199.46	
			<i>For Baked Enamel Finish, Add</i>	273.05	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-53.41	
			<i>For >100, Deduct</i>	-78.14	
			<i>For Polystyrene Core, Add</i>	83.11	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	207.77	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	103.89	
08 13 13	13-0032		18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13)</small>		
08 13 13	13-0033		6'-8" High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0032)</small>		
08 13 13	13-0034	EA	2' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	796.52	64.41
			<i>For Galvanized Steel Door, Add</i>	133.54	
			<i>For Type 304 Stainless Steel Door, Add</i>	534.14	
			<i>For Type 316 Stainless Steel Door, Add</i>	867.98	
			<i>For Embossed Panel Door, Add</i>	160.24	
			<i>For Baked Enamel Finish, Add</i>	219.63	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-43.05	
			<i>For >100, Deduct</i>	-62.96	
			<i>For 2" Thick Door, Add</i>	51.63	
			<i>For Polystyrene Core, Add</i>	66.77	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	166.92	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	83.46	
			<i>For Steel Stiffened, Add</i>	166.92	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0035 EA 2'-4" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	796.52	64.41
For Galvanized Steel Door, Add	133.54	
For Type 304 Stainless Steel Door, Add	534.14	
For Type 316 Stainless Steel Door, Add	867.98	
For Embossed Panel Door, Add	160.24	
For Baked Enamel Finish, Add	219.63	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.05	
For >100, Deduct	-62.96	
For 2" Thick Door, Add	51.63	
For Polystyrene Core, Add	66.77	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	166.92	
For Continuously Welded And Filled Vertical Edge Seam, Add	83.46	
For Steel Stiffened, Add	166.92	
08 13 13 13-0036 EA 2'-6" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	816.02	67.34
For Galvanized Steel Door, Add	136.27	
For Type 304 Stainless Steel Door, Add	545.06	
For Type 316 Stainless Steel Door, Add	885.73	
For Embossed Panel Door, Add	163.52	
For Baked Enamel Finish, Add	224.60	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.17	
For >100, Deduct	-64.57	
For 2" Thick Door, Add	52.76	
For Polystyrene Core, Add	68.13	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	170.33	
For Continuously Welded And Filled Vertical Edge Seam, Add	85.17	
For Steel Stiffened, Add	170.33	
08 13 13 13-0037 EA 2'-8" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	826.19	67.34
For Galvanized Steel Door, Add	138.30	
For Type 304 Stainless Steel Door, Add	553.20	
For Type 316 Stainless Steel Door, Add	898.95	
For Embossed Panel Door, Add	165.96	
For Baked Enamel Finish, Add	227.65	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.68	
For >100, Deduct	-65.33	
For 2" Thick Door, Add	53.50	
For Polystyrene Core, Add	69.15	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	172.88	
For Continuously Welded And Filled Vertical Edge Seam, Add	86.44	
For Steel Stiffened, Add	172.88	
08 13 13 13-0038 EA 2'-10" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	833.17	68.81
For Galvanized Steel Door, Add	139.11	
For Type 304 Stainless Steel Door, Add	556.44	
For Type 316 Stainless Steel Door, Add	904.22	
For Embossed Panel Door, Add	166.93	
For Baked Enamel Finish, Add	229.31	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-45.10	
For >100, Deduct	-65.93	
For 2" Thick Door, Add	53.87	
For Polystyrene Core, Add	69.56	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	173.89	
For Continuously Welded And Filled Vertical Edge Seam, Add	86.94	
For Steel Stiffened, Add	173.89	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0039	EA		3' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	840.17	70.27
			<i>For Galvanized Steel Door, Add</i>	139.93	
			<i>For Type 304 Stainless Steel Door, Add</i>	559.70	
			<i>For Type 316 Stainless Steel Door, Add</i>	909.52	
			<i>For Embossed Panel Door, Add</i>	167.91	
			<i>For Baked Enamel Finish, Add</i>	230.97	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-45.52	
			<i>For >100, Deduct</i>	-66.53	
			<i>For 2" Thick Door, Add</i>	54.24	
			<i>For Polystyrene Core, Add</i>	69.96	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	174.91	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	87.45	
			<i>For Steel Stiffened, Add</i>	174.91	
08 13 13 13-0040	EA		3'-4" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	893.05	70.27
			<i>For Galvanized Steel Door, Add</i>	150.50	
			<i>For Type 304 Stainless Steel Door, Add</i>	602.01	
			<i>For Type 316 Stainless Steel Door, Add</i>	978.26	
			<i>For Embossed Panel Door, Add</i>	180.60	
			<i>For Baked Enamel Finish, Add</i>	246.83	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-48.17	
			<i>For >100, Deduct</i>	-70.49	
			<i>For 2" Thick Door, Add</i>	58.07	
			<i>For Polystyrene Core, Add</i>	75.25	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	188.13	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	94.06	
			<i>For Steel Stiffened, Add</i>	188.13	
08 13 13 13-0041	EA		3'-6" x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	919.25	73.20
			<i>For Galvanized Steel Door, Add</i>	154.57	
			<i>For Type 304 Stainless Steel Door, Add</i>	618.28	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,004.71	
			<i>For Embossed Panel Door, Add</i>	185.48	
			<i>For Baked Enamel Finish, Add</i>	253.82	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-49.62	
			<i>For >100, Deduct</i>	-72.60	
			<i>For 2" Thick Door, Add</i>	59.69	
			<i>For Polystyrene Core, Add</i>	77.29	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	193.21	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	96.61	
			<i>For Steel Stiffened, Add</i>	193.21	
08 13 13 13-0042	EA		4' x 6'-8" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,012.32	79.06
			<i>For Galvanized Steel Door, Add</i>	170.84	
			<i>For Type 304 Stainless Steel Door, Add</i>	683.36	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,110.46	
			<i>For Embossed Panel Door, Add</i>	205.01	
			<i>For Baked Enamel Finish, Add</i>	279.98	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-54.57	
			<i>For >100, Deduct</i>	-79.88	
			<i>For 2" Thick Door, Add</i>	65.88	
			<i>For Polystyrene Core, Add</i>	85.42	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	213.55	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	106.78	
			<i>For Steel Stiffened, Add</i>	213.55	

08 13 13 13-0043 7' High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0032)



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0044 EA 2' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	812.36	64.41
For Galvanized Steel Door, Add	136.70	
For Type 304 Stainless Steel Door, Add	546.82	
For Type 316 Stainless Steel Door, Add	888.58	
For Embossed Panel Door, Add	164.04	
For Baked Enamel Finish, Add	224.38	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.84	
For >100, Deduct	-64.15	
For 2" Thick Door, Add	52.78	
For Polystyrene Core, Add	68.35	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	170.88	
For Continuously Welded And Filled Vertical Edge Seam, Add	85.44	
For Steel Stiffened, Add	170.88	
08 13 13 13-0045 EA 2'-4" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	812.36	64.41
For Galvanized Steel Door, Add	136.70	
For Type 304 Stainless Steel Door, Add	546.82	
For Type 316 Stainless Steel Door, Add	888.58	
For Embossed Panel Door, Add	164.04	
For Baked Enamel Finish, Add	224.38	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-43.84	
For >100, Deduct	-64.15	
For 2" Thick Door, Add	52.78	
For Polystyrene Core, Add	68.35	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	170.88	
For Continuously Welded And Filled Vertical Edge Seam, Add	85.44	
For Steel Stiffened, Add	170.88	
08 13 13 13-0046 EA 2'-6" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	832.19	67.34
For Galvanized Steel Door, Add	139.50	
For Type 304 Stainless Steel Door, Add	558.00	
For Type 316 Stainless Steel Door, Add	906.75	
For Embossed Panel Door, Add	167.40	
For Baked Enamel Finish, Add	229.45	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.98	
For >100, Deduct	-65.78	
For 2" Thick Door, Add	53.94	
For Polystyrene Core, Add	69.75	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	174.38	
For Continuously Welded And Filled Vertical Edge Seam, Add	87.19	
For Steel Stiffened, Add	174.38	
08 13 13 13-0047 EA 2'-8" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	842.60	67.34
For Galvanized Steel Door, Add	141.58	
For Type 304 Stainless Steel Door, Add	566.33	
For Type 316 Stainless Steel Door, Add	920.28	
For Embossed Panel Door, Add	169.90	
For Baked Enamel Finish, Add	232.58	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-45.50	
For >100, Deduct	-66.56	
For 2" Thick Door, Add	54.69	
For Polystyrene Core, Add	70.79	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	176.98	
For Continuously Welded And Filled Vertical Edge Seam, Add	88.49	
For Steel Stiffened, Add	176.98	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	0048	EA	2'-10" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	849.69	68.81
			<i>For Galvanized Steel Door, Add</i>	142.41	
			<i>For Type 304 Stainless Steel Door, Add</i>	569.66	
			<i>For Type 316 Stainless Steel Door, Add</i>	925.69	
			<i>For Embossed Panel Door, Add</i>	170.90	
			<i>For Baked Enamel Finish, Add</i>	234.26	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-45.93	
			<i>For >100, Deduct</i>	-67.17	
			<i>For 2" Thick Door, Add</i>	55.07	
			<i>For Polystyrene Core, Add</i>	71.21	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	178.02	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	89.01	
			<i>For Steel Stiffened, Add</i>	178.02	
08 13 13	0049	EA	3' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	856.78	70.27
			<i>For Galvanized Steel Door, Add</i>	143.25	
			<i>For Type 304 Stainless Steel Door, Add</i>	572.99	
			<i>For Type 316 Stainless Steel Door, Add</i>	931.11	
			<i>For Embossed Panel Door, Add</i>	171.90	
			<i>For Baked Enamel Finish, Add</i>	235.95	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-46.35	
			<i>For >100, Deduct</i>	-67.77	
			<i>For 2" Thick Door, Add</i>	55.44	
			<i>For Polystyrene Core, Add</i>	71.62	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	179.06	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	89.53	
			<i>For Steel Stiffened, Add</i>	179.06	
08 13 13	0050	EA	3'-4" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	910.91	70.27
			<i>For Galvanized Steel Door, Add</i>	154.07	
			<i>For Type 304 Stainless Steel Door, Add</i>	616.30	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,001.48	
			<i>For Embossed Panel Door, Add</i>	184.89	
			<i>For Baked Enamel Finish, Add</i>	252.19	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-49.06	
			<i>For >100, Deduct</i>	-71.83	
			<i>For 2" Thick Door, Add</i>	59.37	
			<i>For Polystyrene Core, Add</i>	77.04	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	192.59	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	96.30	
			<i>For Steel Stiffened, Add</i>	192.59	
08 13 13	0051	EA	3'-6" x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	937.59	73.20
			<i>For Galvanized Steel Door, Add</i>	158.24	
			<i>For Type 304 Stainless Steel Door, Add</i>	632.95	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,028.55	
			<i>For Embossed Panel Door, Add</i>	189.89	
			<i>For Baked Enamel Finish, Add</i>	259.32	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-50.54	
			<i>For >100, Deduct</i>	-73.98	
			<i>For 2" Thick Door, Add</i>	61.02	
			<i>For Polystyrene Core, Add</i>	79.12	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	197.80	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	98.90	
			<i>For Steel Stiffened, Add</i>	197.80	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0052 EA 4' x 7' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,032.60	79.06
For Galvanized Steel Door, Add	174.90	
For Type 304 Stainless Steel Door, Add	699.58	
For Type 316 Stainless Steel Door, Add	1,136.82	
For Embossed Panel Door, Add	209.88	
For Baked Enamel Finish, Add	286.06	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-55.58	
For >100, Deduct	-81.40	
For 2" Thick Door, Add	67.35	
For Polystyrene Core, Add	87.45	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	218.62	
For Continuously Welded And Filled Vertical Edge Seam, Add	109.31	
For Steel Stiffened, Add	218.62	
08 13 13 13-0053 7'-2" High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0032)		
08 13 13 13-0054 EA 2' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	828.21	64.41
For Galvanized Steel Door, Add	139.87	
For Type 304 Stainless Steel Door, Add	559.50	
For Type 316 Stainless Steel Door, Add	909.18	
For Embossed Panel Door, Add	167.85	
For Baked Enamel Finish, Add	229.14	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.63	
For >100, Deduct	-65.34	
For 2" Thick Door, Add	53.93	
For Polystyrene Core, Add	69.94	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	174.84	
For Continuously Welded And Filled Vertical Edge Seam, Add	87.42	
For Steel Stiffened, Add	174.84	
08 13 13 13-0055 EA 2'-4" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	828.21	64.41
For Galvanized Steel Door, Add	139.87	
For Type 304 Stainless Steel Door, Add	559.50	
For Type 316 Stainless Steel Door, Add	909.18	
For Embossed Panel Door, Add	167.85	
For Baked Enamel Finish, Add	229.14	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-44.63	
For >100, Deduct	-65.34	
For 2" Thick Door, Add	53.93	
For Polystyrene Core, Add	69.94	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	174.84	
For Continuously Welded And Filled Vertical Edge Seam, Add	87.42	
For Steel Stiffened, Add	174.84	
08 13 13 13-0056 EA 2'-6" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	848.36	67.34
For Galvanized Steel Door, Add	142.73	
For Type 304 Stainless Steel Door, Add	570.94	
For Type 316 Stainless Steel Door, Add	927.77	
For Embossed Panel Door, Add	171.28	
For Baked Enamel Finish, Add	234.30	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-45.79	
For >100, Deduct	-66.99	
For 2" Thick Door, Add	55.11	
For Polystyrene Core, Add	71.37	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	178.42	
For Continuously Welded And Filled Vertical Edge Seam, Add	89.21	
For Steel Stiffened, Add	178.42	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0057	EA		2'-8" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	859.01	67.34
			<i>For Galvanized Steel Door, Add</i>	144.86	
			<i>For Type 304 Stainless Steel Door, Add</i>	579.46	
			<i>For Type 316 Stainless Steel Door, Add</i>	941.62	
			<i>For Embossed Panel Door, Add</i>	173.84	
			<i>For Baked Enamel Finish, Add</i>	237.50	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-46.32	
			<i>For >100, Deduct</i>	-67.79	
			<i>For 2" Thick Door, Add</i>	55.88	
			<i>For Polystyrene Core, Add</i>	72.43	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	181.08	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	90.54	
			<i>For Steel Stiffened, Add</i>	181.08	
08 13 13 13-0058	EA		3' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	873.38	70.27
			<i>For Galvanized Steel Door, Add</i>	146.57	
			<i>For Type 304 Stainless Steel Door, Add</i>	586.27	
			<i>For Type 316 Stainless Steel Door, Add</i>	952.69	
			<i>For Embossed Panel Door, Add</i>	175.88	
			<i>For Baked Enamel Finish, Add</i>	240.93	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-47.18	
			<i>For >100, Deduct</i>	-69.02	
			<i>For 2" Thick Door, Add</i>	56.64	
			<i>For Polystyrene Core, Add</i>	73.28	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	183.21	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	91.61	
			<i>For Steel Stiffened, Add</i>	183.21	
08 13 13 13-0059	EA		3'-4" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	928.77	70.27
			<i>For Galvanized Steel Door, Add</i>	157.65	
			<i>For Type 304 Stainless Steel Door, Add</i>	630.58	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,024.70	
			<i>For Embossed Panel Door, Add</i>	189.18	
			<i>For Baked Enamel Finish, Add</i>	257.55	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-49.95	
			<i>For >100, Deduct</i>	-73.17	
			<i>For 2" Thick Door, Add</i>	60.66	
			<i>For Polystyrene Core, Add</i>	78.82	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	197.06	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	98.53	
			<i>For Steel Stiffened, Add</i>	197.06	
08 13 13 13-0060	EA		3'-6" x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	955.94	73.20
			<i>For Galvanized Steel Door, Add</i>	161.91	
			<i>For Type 304 Stainless Steel Door, Add</i>	647.63	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,052.40	
			<i>For Embossed Panel Door, Add</i>	194.29	
			<i>For Baked Enamel Finish, Add</i>	264.82	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-51.46	
			<i>For >100, Deduct</i>	-75.36	
			<i>For 2" Thick Door, Add</i>	62.35	
			<i>For Polystyrene Core, Add</i>	80.95	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	202.39	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	101.19	
			<i>For Steel Stiffened, Add</i>	202.39	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0061 EA 4' x 7'-2" x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,052.87	79.06
For Galvanized Steel Door, Add	178.95	
For Type 304 Stainless Steel Door, Add	715.80	
For Type 316 Stainless Steel Door, Add	1,163.18	
For Embossed Panel Door, Add	214.74	
For Baked Enamel Finish, Add	292.14	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-56.60	
For >100, Deduct	-82.92	
For 2" Thick Door, Add	68.82	
For Polystyrene Core, Add	89.48	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	223.69	
For Continuously Welded And Filled Vertical Edge Seam, Add	111.84	
For Steel Stiffened, Add	223.69	
 08 13 13 13-0062 8' High, 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0032)</small>		
08 13 13 13-0063 EA 2' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	958.91	64.41
For Up To 1' Extra Height, Add	229.68	
For 1' To 1'-6" Extra Height, Add	438.19	
For Galvanized Steel Door, Add	166.01	
For Type 304 Stainless Steel Door, Add	664.06	
For Type 316 Stainless Steel Door, Add	1,079.09	
For Embossed Panel Door, Add	199.22	
For Baked Enamel Finish, Add	268.35	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-51.17	
For >100, Deduct	-75.14	
For 2" Thick Door, Add	63.40	
For Polystyrene Core, Add	83.01	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	207.52	
For Continuously Welded And Filled Vertical Edge Seam, Add	103.76	
For Steel Stiffened, Add	207.52	
08 13 13 13-0064 EA 2'-4" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	958.91	64.41
For Up To 1' Extra Height, Add	229.68	
For 1' To 1'-6" Extra Height, Add	438.19	
For Galvanized Steel Door, Add	166.01	
For Type 304 Stainless Steel Door, Add	664.06	
For Type 316 Stainless Steel Door, Add	1,079.09	
For Embossed Panel Door, Add	199.22	
For Baked Enamel Finish, Add	268.35	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-51.17	
For >100, Deduct	-75.14	
For 2" Thick Door, Add	63.40	
For Polystyrene Core, Add	83.01	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	207.52	
For Continuously Welded And Filled Vertical Edge Seam, Add	103.76	
For Steel Stiffened, Add	207.52	
08 13 13 13-0065 EA 2'-6" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	981.74	67.34
For Up To 1' Extra Height, Add	234.38	
For 1' To 1'-6" Extra Height, Add	447.16	
For Galvanized Steel Door, Add	169.41	
For Type 304 Stainless Steel Door, Add	677.64	
For Type 316 Stainless Steel Door, Add	1,101.17	
For Embossed Panel Door, Add	203.29	
For Baked Enamel Finish, Add	274.32	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-52.45	
For >100, Deduct	-77.00	
For 2" Thick Door, Add	64.78	
For Polystyrene Core, Add	84.71	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	211.76	
For Continuously Welded And Filled Vertical Edge Seam, Add	105.88	
For Steel Stiffened, Add	211.76	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0066	EA	2'-8" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	994.39	67.34
			For Up To 1' Extra Height, Add	237.88	
			For 1' To 1'-6" Extra Height, Add	453.84	
			For Galvanized Steel Door, Add	171.94	
			For Type 304 Stainless Steel Door, Add	687.76	
			For Type 316 Stainless Steel Door, Add	1,117.61	
			For Embossed Panel Door, Add	206.33	
			For Baked Enamel Finish, Add	278.11	
			For 20 Minute Fire Rated Door, Add	27.63	
			For 45 Minute Fire Rated Door, Add	41.40	
			For 60 Minute Fire Rated Door, Add	55.27	
			For 90 Minute Fire Rated Door, Add	93.38	
			For 3 Hour Fire Rated Door, Add	131.50	
			For >50 To 100, Deduct	-53.09	
			For >100, Deduct	-77.95	
			For 2" Thick Door, Add	65.70	
			For Polystyrene Core, Add	85.97	
			For Mineral Core, 250 Degree Maximum Temperature Rise, Add	214.93	
			For Continuously Welded And Filled Vertical Edge Seam, Add	107.46	
			For Steel Stiffened, Add	214.93	
08 13 13	13-0067	EA	2'-10" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,002.37	68.81
			For Up To 1' Extra Height, Add	239.28	
			For 1' To 1'-6" Extra Height, Add	456.50	
			For Galvanized Steel Door, Add	172.95	
			For Type 304 Stainless Steel Door, Add	691.80	
			For Type 316 Stainless Steel Door, Add	1,124.18	
			For Embossed Panel Door, Add	207.54	
			For Baked Enamel Finish, Add	280.07	
			For 20 Minute Fire Rated Door, Add	27.63	
			For 45 Minute Fire Rated Door, Add	41.40	
			For 60 Minute Fire Rated Door, Add	55.27	
			For 90 Minute Fire Rated Door, Add	93.38	
			For 3 Hour Fire Rated Door, Add	131.50	
			For >50 To 100, Deduct	-53.56	
			For >100, Deduct	-78.62	
			For 2" Thick Door, Add	66.13	
			For Polystyrene Core, Add	86.48	
			For Mineral Core, 250 Degree Maximum Temperature Rise, Add	216.19	
			For Continuously Welded And Filled Vertical Edge Seam, Add	108.09	
			For Steel Stiffened, Add	216.19	
08 13 13	13-0068	EA	3' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,010.34	70.27
			For Up To 1' Extra Height, Add	240.67	
			For 1' To 1'-6" Extra Height, Add	459.17	
			For Galvanized Steel Door, Add	173.96	
			For Type 304 Stainless Steel Door, Add	695.84	
			For Type 316 Stainless Steel Door, Add	1,130.74	
			For Embossed Panel Door, Add	208.75	
			For Baked Enamel Finish, Add	282.02	
			For 20 Minute Fire Rated Door, Add	27.63	
			For 45 Minute Fire Rated Door, Add	41.40	
			For 60 Minute Fire Rated Door, Add	55.27	
			For 90 Minute Fire Rated Door, Add	93.38	
			For 3 Hour Fire Rated Door, Add	131.50	
			For >50 To 100, Deduct	-54.03	
			For >100, Deduct	-79.29	
			For 2" Thick Door, Add	66.57	
			For Polystyrene Core, Add	86.98	
			For Mineral Core, 250 Degree Maximum Temperature Rise, Add	217.45	
			For Continuously Welded And Filled Vertical Edge Seam, Add	108.73	
			For Steel Stiffened, Add	217.45	
08 13 13	13-0069	EA	3'-4" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,076.09	70.27
			For Up To 1' Extra Height, Add	258.87	
			For 1' To 1'-6" Extra Height, Add	493.88	
			For Galvanized Steel Door, Add	187.11	
			For Type 304 Stainless Steel Door, Add	748.44	
			For Type 316 Stainless Steel Door, Add	1,216.22	
			For Embossed Panel Door, Add	224.53	
			For Baked Enamel Finish, Add	301.75	
			For 20 Minute Fire Rated Door, Add	27.63	
			For 45 Minute Fire Rated Door, Add	41.40	
			For 60 Minute Fire Rated Door, Add	55.27	
			For 90 Minute Fire Rated Door, Add	93.38	
			For 3 Hour Fire Rated Door, Add	131.50	
			For >50 To 100, Deduct	-57.32	
			For >100, Deduct	-84.22	
			For 2" Thick Door, Add	71.34	
			For Polystyrene Core, Add	93.56	
			For Mineral Core, 250 Degree Maximum Temperature Rise, Add	233.89	
			For Continuously Welded And Filled Vertical Edge Seam, Add	116.94	
			For Steel Stiffened, Add	233.89	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0070 EA 3'-6" x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door	1,107.24	73.20
For Up To 1' Extra Height, Add	265.86	
For 1' To 1'-6" Extra Height, Add	507.23	
For Galvanized Steel Door, Add	192.17	
For Type 304 Stainless Steel Door, Add	768.67	
For Type 316 Stainless Steel Door, Add	1,249.09	
For Embossed Panel Door, Add	230.60	
For Baked Enamel Finish, Add	310.21	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-59.02	
For >100, Deduct	-86.70	
For 2" Thick Door, Add	73.32	
For Polystyrene Core, Add	96.08	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	240.21	
For Continuously Welded And Filled Vertical Edge Seam, Add	120.11	
For Steel Stiffened, Add	240.21	
08 13 13 13-0071 EA 4' x 8' x 1-3/4", 18 Gauge, Level 2 Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,220.09	79.06
For Up To 1' Extra Height, Add	293.85	
For 1' To 1'-6" Extra Height, Add	560.61	
For Galvanized Steel Door, Add	12.39	
For Type 304 Stainless Steel Door, Add	849.58	
For Type 316 Stainless Steel Door, Add	1,380.56	
For Embossed Panel Door, Add	254.87	
For Baked Enamel Finish, Add	342.31	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-64.96	
For >100, Deduct	-95.46	
For 2" Thick Door, Add	80.95	
For Polystyrene Core, Add	106.20	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	265.49	
For Continuously Welded And Filled Vertical Edge Seam, Add	132.75	
For Steel Stiffened, Add	265.49	
08 13 13 13-0072 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13)		
08 13 13 13-0073 6'-8" High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0072)		
08 13 13 13-0074 EA 2' x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,053.57	64.41
For 14 Gauge, Level 4 Maximum Duty, Add	369.89	
For Galvanized Steel Door, Add	184.95	
For Type 304 Stainless Steel Door, Add	739.78	
For Type 316 Stainless Steel Door, Add	1,202.15	
For Embossed Panel Door, Add	221.94	
For Baked Enamel Finish, Add	296.75	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-55.90	
For >100, Deduct	-82.24	
For 2" Thick Door, Add	70.26	
For Polystyrene Core, Add	92.47	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	231.18	
For Continuously Welded And Filled Vertical Edge Seam, Add	115.59	
For Steel Stiffened, Add	231.18	
08 13 13 13-0075 EA 2'-4" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,053.57	64.41
For 14 Gauge, Level 4 Maximum Duty, Add	369.89	
For Galvanized Steel Door, Add	184.95	
For Type 304 Stainless Steel Door, Add	739.78	
For Type 316 Stainless Steel Door, Add	1,202.15	
For Embossed Panel Door, Add	221.94	
For Baked Enamel Finish, Add	296.75	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-55.90	
For >100, Deduct	-82.24	
For 2" Thick Door, Add	70.26	
For Polystyrene Core, Add	92.47	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	231.18	
For Continuously Welded And Filled Vertical Edge Seam, Add	115.59	
For Steel Stiffened, Add	231.18	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0076	EA	2'-6" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,078.33	67.34
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	377.46	
			<i>For Galvanized Steel Door, Add</i>	188.73	
			<i>For Type 304 Stainless Steel Door, Add</i>	754.91	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,226.73	
			<i>For Embossed Panel Door, Add</i>	226.47	
			<i>For Baked Enamel Finish, Add</i>	303.30	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-57.28	
			<i>For >100, Deduct</i>	-84.24	
			<i>For 2" Thick Door, Add</i>	71.78	
			<i>For Polystyrene Core, Add</i>	94.36	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	235.91	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	117.96	
			<i>For Steel Stiffened, Add</i>	235.91	
08 13 13	13-0077	EA	2'-8" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,092.42	67.34
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	383.09	
			<i>For Galvanized Steel Door, Add</i>	191.55	
			<i>For Type 304 Stainless Steel Door, Add</i>	766.18	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,245.05	
			<i>For Embossed Panel Door, Add</i>	229.86	
			<i>For Baked Enamel Finish, Add</i>	307.52	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-57.99	
			<i>For >100, Deduct</i>	-85.30	
			<i>For 2" Thick Door, Add</i>	72.80	
			<i>For Polystyrene Core, Add</i>	95.77	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	239.43	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	119.72	
			<i>For Steel Stiffened, Add</i>	239.43	
08 13 13	13-0078	EA	2'-10" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,101.00	68.81
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	385.35	
			<i>For Galvanized Steel Door, Add</i>	192.68	
			<i>For Type 304 Stainless Steel Door, Add</i>	770.70	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,252.39	
			<i>For Embossed Panel Door, Add</i>	231.21	
			<i>For Baked Enamel Finish, Add</i>	309.66	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-58.49	
			<i>For >100, Deduct</i>	-86.02	
			<i>For 2" Thick Door, Add</i>	73.29	
			<i>For Polystyrene Core, Add</i>	96.34	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	240.85	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	120.42	
			<i>For Steel Stiffened, Add</i>	240.85	
08 13 13	13-0079	EA	3' x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,109.54	70.27
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	387.60	
			<i>For Galvanized Steel Door, Add</i>	193.80	
			<i>For Type 304 Stainless Steel Door, Add</i>	775.20	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,259.70	
			<i>For Embossed Panel Door, Add</i>	232.56	
			<i>For Baked Enamel Finish, Add</i>	311.78	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-58.99	
			<i>For >100, Deduct</i>	-86.73	
			<i>For 2" Thick Door, Add</i>	73.77	
			<i>For Polystyrene Core, Add</i>	96.90	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	242.25	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	121.13	
			<i>For Steel Stiffened, Add</i>	242.25	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0080 EA 3'-4" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,182.77	70.27
For 14 Gauge, Level 4 Maximum Duty, Add	416.89	
For Galvanized Steel Door, Add	208.45	
For Type 304 Stainless Steel Door, Add	833.78	
For Type 316 Stainless Steel Door, Add	1,354.90	
For Embossed Panel Door, Add	250.14	
For Baked Enamel Finish, Add	333.75	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-62.65	
For >100, Deduct	-92.22	
For 2" Thick Door, Add	79.08	
For Polystyrene Core, Add	104.22	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	260.56	
For Continuously Welded And Filled Vertical Edge Seam, Add	130.28	
For Steel Stiffened, Add	260.56	
08 13 13 13-0081 EA 3'-6" x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,216.80	73.20
For 14 Gauge, Level 4 Maximum Duty, Add	428.16	
For Galvanized Steel Door, Add	214.08	
For Type 304 Stainless Steel Door, Add	856.32	
For Type 316 Stainless Steel Door, Add	1,391.52	
For Embossed Panel Door, Add	256.90	
For Baked Enamel Finish, Add	343.08	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-64.50	
For >100, Deduct	-94.92	
For 2" Thick Door, Add	81.26	
For Polystyrene Core, Add	107.04	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	267.60	
For Continuously Welded And Filled Vertical Edge Seam, Add	133.80	
For Steel Stiffened, Add	267.60	
08 13 13 13-0082 EA 4' x 6'-8" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,341.19	79.06
For 14 Gauge, Level 4 Maximum Duty, Add	473.23	
For Galvanized Steel Door, Add	236.61	
For Type 304 Stainless Steel Door, Add	946.46	
For Type 316 Stainless Steel Door, Add	1,537.99	
For Embossed Panel Door, Add	283.94	
For Baked Enamel Finish, Add	378.64	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-71.01	
For >100, Deduct	-104.54	
For 2" Thick Door, Add	89.73	
For Polystyrene Core, Add	118.31	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	295.77	
For Continuously Welded And Filled Vertical Edge Seam, Add	147.88	
For Steel Stiffened, Add	295.77	
08 13 13 13-0083 7' High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0072)		
08 13 13 13-0084 EA 2' x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,075.52	64.41
For 14 Gauge, Level 4 Maximum Duty, Add	378.67	
For Galvanized Steel Door, Add	189.34	
For Type 304 Stainless Steel Door, Add	757.34	
For Type 316 Stainless Steel Door, Add	1,230.68	
For Embossed Panel Door, Add	227.20	
For Baked Enamel Finish, Add	303.33	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-57.00	
For >100, Deduct	-83.89	
For 2" Thick Door, Add	71.86	
For Polystyrene Core, Add	94.67	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	236.67	
For Continuously Welded And Filled Vertical Edge Seam, Add	118.34	
For Steel Stiffened, Add	236.67	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0085	EA	2'-4" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,075.52	64.41
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	378.67	
			<i>For Galvanized Steel Door, Add</i>	189.34	
			<i>For Type 304 Stainless Steel Door, Add</i>	757.34	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,230.68	
			<i>For Embossed Panel Door, Add</i>	227.20	
			<i>For Baked Enamel Finish, Add</i>	303.33	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-57.00	
			<i>For >100, Deduct</i>	-83.89	
			<i>For 2" Thick Door, Add</i>	71.86	
			<i>For Polystyrene Core, Add</i>	94.67	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	236.67	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	118.34	
			<i>For Steel Stiffened, Add</i>	236.67	
08 13 13	13-0086	EA	2'-6" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,100.73	67.34
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	386.42	
			<i>For Galvanized Steel Door, Add</i>	193.21	
			<i>For Type 304 Stainless Steel Door, Add</i>	772.83	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,255.85	
			<i>For Embossed Panel Door, Add</i>	231.85	
			<i>For Baked Enamel Finish, Add</i>	310.02	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-58.40	
			<i>For >100, Deduct</i>	-85.92	
			<i>For 2" Thick Door, Add</i>	73.41	
			<i>For Polystyrene Core, Add</i>	96.60	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	241.51	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	120.76	
			<i>For Steel Stiffened, Add</i>	241.51	
08 13 13	13-0087	EA	2'-8" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,115.14	67.34
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	392.18	
			<i>For Galvanized Steel Door, Add</i>	196.09	
			<i>For Type 304 Stainless Steel Door, Add</i>	784.36	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,274.59	
			<i>For Embossed Panel Door, Add</i>	235.31	
			<i>For Baked Enamel Finish, Add</i>	314.34	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-59.12	
			<i>For >100, Deduct</i>	-87.00	
			<i>For 2" Thick Door, Add</i>	74.45	
			<i>For Polystyrene Core, Add</i>	98.05	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	245.11	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	122.56	
			<i>For Steel Stiffened, Add</i>	245.11	
08 13 13	13-0088	EA	2'-10" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,123.84	68.81
			<i>For 14 Gauge, Level 4 Maximum Duty, Add</i>	394.49	
			<i>For Galvanized Steel Door, Add</i>	197.24	
			<i>For Type 304 Stainless Steel Door, Add</i>	788.98	
			<i>For Type 316 Stainless Steel Door, Add</i>	1,282.09	
			<i>For Embossed Panel Door, Add</i>	236.69	
			<i>For Baked Enamel Finish, Add</i>	316.51	
			<i>For 20 Minute Fire Rated Door, Add</i>	27.63	
			<i>For 45 Minute Fire Rated Door, Add</i>	41.40	
			<i>For 60 Minute Fire Rated Door, Add</i>	55.27	
			<i>For 90 Minute Fire Rated Door, Add</i>	93.38	
			<i>For 3 Hour Fire Rated Door, Add</i>	131.50	
			<i>For >50 To 100, Deduct</i>	-59.63	
			<i>For >100, Deduct</i>	-87.73	
			<i>For 2" Thick Door, Add</i>	74.94	
			<i>For Polystyrene Core, Add</i>	98.62	
			<i>For Mineral Core, 250 Degree Maximum Temperature Rise, Add</i>	246.56	
			<i>For Continuously Welded And Filled Vertical Edge Seam, Add</i>	123.28	
			<i>For Steel Stiffened, Add</i>	246.56	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0089 EA 3' x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,132.53	70.27
For 14 Gauge, Level 4 Maximum Duty, Add	396.80	
For Galvanized Steel Door, Add	198.40	
For Type 304 Stainless Steel Door, Add	793.59	
For Type 316 Stainless Steel Door, Add	1,289.59	
For Embossed Panel Door, Add	238.08	
For Baked Enamel Finish, Add	318.68	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-60.14	
For >100, Deduct	-88.45	
For 2" Thick Door, Add	75.43	
For Polystyrene Core, Add	99.20	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	248.00	
For Continuously Welded And Filled Vertical Edge Seam, Add	124.00	
For Steel Stiffened, Add	248.00	
08 13 13 13-0090 EA 3'-4" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,207.51	70.27
For 14 Gauge, Level 4 Maximum Duty, Add	426.79	
For Galvanized Steel Door, Add	213.39	
For Type 304 Stainless Steel Door, Add	853.58	
For Type 316 Stainless Steel Door, Add	1,387.06	
For Embossed Panel Door, Add	256.07	
For Baked Enamel Finish, Add	341.17	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-63.89	
For >100, Deduct	-94.08	
For 2" Thick Door, Add	80.87	
For Polystyrene Core, Add	106.70	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	266.74	
For Continuously Welded And Filled Vertical Edge Seam, Add	133.37	
For Steel Stiffened, Add	266.74	
08 13 13 13-0091 EA 3'-6" x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,242.20	73.20
For 14 Gauge, Level 4 Maximum Duty, Add	438.32	
For Galvanized Steel Door, Add	219.16	
For Type 304 Stainless Steel Door, Add	876.64	
For Type 316 Stainless Steel Door, Add	1,424.54	
For Embossed Panel Door, Add	262.99	
For Baked Enamel Finish, Add	350.70	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-65.77	
For >100, Deduct	-96.83	
For 2" Thick Door, Add	83.11	
For Polystyrene Core, Add	109.58	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	273.95	
For Continuously Welded And Filled Vertical Edge Seam, Add	136.98	
For Steel Stiffened, Add	273.95	
08 13 13 13-0092 EA 4' x 7' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,369.27	79.06
For 14 Gauge, Level 4 Maximum Duty, Add	484.46	
For Galvanized Steel Door, Add	242.23	
For Type 304 Stainless Steel Door, Add	968.92	
For Type 316 Stainless Steel Door, Add	1,574.50	
For Embossed Panel Door, Add	290.68	
For Baked Enamel Finish, Add	387.06	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-72.42	
For >100, Deduct	-106.65	
For 2" Thick Door, Add	91.76	
For Polystyrene Core, Add	121.12	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	302.79	
For Continuously Welded And Filled Vertical Edge Seam, Add	151.39	
For Steel Stiffened, Add	302.79	
08 13 13 13-0093 7'-2" High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors (08 13 13 13-0072)		

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13	13-0094	EA	2' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door For 14 Gauge, Level 4 Maximum Duty, Add For Galvanized Steel Door, Add For Type 304 Stainless Steel Door, Add For Type 316 Stainless Steel Door, Add For Embossed Panel Door, Add For Baked Enamel Finish, Add For 20 Minute Fire Rated Door, Add For 45 Minute Fire Rated Door, Add For 60 Minute Fire Rated Door, Add For 90 Minute Fire Rated Door, Add For 3 Hour Fire Rated Door, Add For >50 To 100, Deduct For >100, Deduct For 2" Thick Door, Add For Polystyrene Core, Add For Mineral Core, 250 Degree Maximum Temperature Rise, Add For Continuously Welded And Filled Vertical Edge Seam, Add For Steel Stiffened, Add	1,097.47 387.45 193.73 774.90 1,259.22 232.47 309.92 27.63 41.40 55.27 93.38 131.50 -58.09 -85.53 73.45 96.86 242.16 121.08 242.16	64.41
08 13 13	13-0095	EA	2'-4" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... For 14 Gauge, Level 4 Maximum Duty, Add For Galvanized Steel Door, Add For Type 304 Stainless Steel Door, Add For Type 316 Stainless Steel Door, Add For Embossed Panel Door, Add For Baked Enamel Finish, Add For 20 Minute Fire Rated Door, Add For 45 Minute Fire Rated Door, Add For 60 Minute Fire Rated Door, Add For 90 Minute Fire Rated Door, Add For 3 Hour Fire Rated Door, Add For >50 To 100, Deduct For >100, Deduct For 2" Thick Door, Add For Polystyrene Core, Add For Mineral Core, 250 Degree Maximum Temperature Rise, Add For Continuously Welded And Filled Vertical Edge Seam, Add For Steel Stiffened, Add	1,097.47 387.45 193.73 774.90 1,259.22 232.47 309.92 27.63 41.40 55.27 93.38 131.50 -58.09 -85.53 73.45 96.86 242.16 121.08 242.16	64.41
08 13 13	13-0096	EA	2'-6" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... For 14 Gauge, Level 4 Maximum Duty, Add For Galvanized Steel Door, Add For Type 304 Stainless Steel Door, Add For Type 316 Stainless Steel Door, Add For Embossed Panel Door, Add For Baked Enamel Finish, Add For 20 Minute Fire Rated Door, Add For 45 Minute Fire Rated Door, Add For 60 Minute Fire Rated Door, Add For 90 Minute Fire Rated Door, Add For 3 Hour Fire Rated Door, Add For >50 To 100, Deduct For >100, Deduct For 2" Thick Door, Add For Polystyrene Core, Add For Mineral Core, 250 Degree Maximum Temperature Rise, Add For Continuously Welded And Filled Vertical Edge Seam, Add For Steel Stiffened, Add	1,123.13 395.38 197.69 790.75 1,284.97 237.23 316.74 27.63 41.40 55.27 93.38 131.50 -59.52 -87.60 75.03 98.84 247.11 123.56 247.11	67.34
08 13 13	13-0097	EA	2'-8" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door..... For 14 Gauge, Level 4 Maximum Duty, Add For Galvanized Steel Door, Add For Type 304 Stainless Steel Door, Add For Type 316 Stainless Steel Door, Add For Embossed Panel Door, Add For Baked Enamel Finish, Add For 20 Minute Fire Rated Door, Add For 45 Minute Fire Rated Door, Add For 60 Minute Fire Rated Door, Add For 90 Minute Fire Rated Door, Add For 3 Hour Fire Rated Door, Add For >50 To 100, Deduct For >100, Deduct For 2" Thick Door, Add For Polystyrene Core, Add For Mineral Core, 250 Degree Maximum Temperature Rise, Add For Continuously Welded And Filled Vertical Edge Seam, Add For Steel Stiffened, Add	1,137.88 401.28 200.64 802.55 1,304.15 240.77 321.16 27.63 41.40 55.27 93.38 131.50 -60.26 -88.71 76.10 100.32 250.80 125.40 250.80	67.34



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0098 EA 2'-10" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,146.72	68.81
For 14 Gauge, Level 4 Maximum Duty, Add	403.64	
For Galvanized Steel Door, Add	201.82	
For Type 304 Stainless Steel Door, Add	807.28	
For Type 316 Stainless Steel Door, Add	1,311.83	
For Embossed Panel Door, Add	242.18	
For Baked Enamel Finish, Add	323.37	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-60.78	
For >100, Deduct	-89.44	
For 2" Thick Door, Add	76.60	
For Polystyrene Core, Add	100.91	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	252.28	
For Continuously Welded And Filled Vertical Edge Seam, Add	126.14	
For Steel Stiffened, Add	252.28	
08 13 13 13-0099 EA 3' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,155.53	70.27
For 14 Gauge, Level 4 Maximum Duty, Add	406.00	
For Galvanized Steel Door, Add	203.00	
For Type 304 Stainless Steel Door, Add	811.99	
For Type 316 Stainless Steel Door, Add	1,319.49	
For Embossed Panel Door, Add	243.60	
For Baked Enamel Finish, Add	325.58	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-61.29	
For >100, Deduct	-90.18	
For 2" Thick Door, Add	77.10	
For Polystyrene Core, Add	101.50	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	253.75	
For Continuously Welded And Filled Vertical Edge Seam, Add	126.87	
For Steel Stiffened, Add	253.75	
08 13 13 13-0100 EA 3'-4" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,232.24	70.27
For 14 Gauge, Level 4 Maximum Duty, Add	436.68	
For Galvanized Steel Door, Add	218.34	
For Type 304 Stainless Steel Door, Add	873.36	
For Type 316 Stainless Steel Door, Add	1,419.21	
For Embossed Panel Door, Add	262.01	
For Baked Enamel Finish, Add	348.59	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-65.13	
For >100, Deduct	-95.93	
For 2" Thick Door, Add	82.66	
For Polystyrene Core, Add	109.17	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	272.93	
For Continuously Welded And Filled Vertical Edge Seam, Add	136.46	
For Steel Stiffened, Add	272.93	
08 13 13 13-0101 EA 3'-6" x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,267.61	73.20
For 14 Gauge, Level 4 Maximum Duty, Add	448.48	
For Galvanized Steel Door, Add	224.24	
For Type 304 Stainless Steel Door, Add	896.97	
For Type 316 Stainless Steel Door, Add	1,457.57	
For Embossed Panel Door, Add	269.09	
For Baked Enamel Finish, Add	358.32	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-67.04	
For >100, Deduct	-98.73	
For 2" Thick Door, Add	84.95	
For Polystyrene Core, Add	112.12	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	280.30	
For Continuously Welded And Filled Vertical Edge Seam, Add	140.15	
For Steel Stiffened, Add	280.30	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
08 13 13 13-0102	EA 4' x 7'-2" x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,397.35	79.06
	For 14 Gauge, Level 4 Maximum Duty, Add	495.69	
	For Galvanized Steel Door, Add	247.85	
	For Type 304 Stainless Steel Door, Add	991.38	
	For Type 316 Stainless Steel Door, Add	1,611.00	
	For Embossed Panel Door, Add	297.42	
	For Baked Enamel Finish, Add	395.49	
	For 20 Minute Fire Rated Door, Add	27.63	
	For 45 Minute Fire Rated Door, Add	41.40	
	For 60 Minute Fire Rated Door, Add	55.27	
	For 90 Minute Fire Rated Door, Add	93.38	
	For 3 Hour Fire Rated Door, Add	131.50	
	For >50 To 100, Deduct	-73.82	
	For >100, Deduct	-108.75	
	For 2" Thick Door, Add	93.80	
	For Polystyrene Core, Add	123.92	
	For Mineral Core, 250 Degree Maximum Temperature Rise, Add	309.81	
	For Continuously Welded And Filled Vertical Edge Seam, Add	154.90	
	For Steel Stiffened, Add	309.81	
08 13 13 13-0103	8' High, 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Doors <small>(08 13 13 13-0072)</small>		
08 13 13 13-0104	EA 2' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,278.49	64.41
	For Up To 1' Extra Height, Add	318.11	
	For 14 Gauge, Level 4 Maximum Duty, Add	459.86	
	For Galvanized Steel Door, Add	229.93	
	For Type 304 Stainless Steel Door, Add	919.72	
	For Type 316 Stainless Steel Door, Add	1,494.55	
	For Embossed Panel Door, Add	275.92	
	For Baked Enamel Finish, Add	364.22	
	For 20 Minute Fire Rated Door, Add	27.63	
	For 45 Minute Fire Rated Door, Add	41.40	
	For 60 Minute Fire Rated Door, Add	55.27	
	For 90 Minute Fire Rated Door, Add	93.38	
	For 3 Hour Fire Rated Door, Add	131.50	
	For >50 To 100, Deduct	-67.15	
	For >100, Deduct	-99.11	
	For 2" Thick Door, Add	86.57	
	For Polystyrene Core, Add	114.97	
	For Mineral Core, 250 Degree Maximum Temperature Rise, Add	287.41	
	For Continuously Welded And Filled Vertical Edge Seam, Add	143.71	
	For Steel Stiffened, Add	287.41	
08 13 13 13-0105	EA 2'-4" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,278.49	64.41
	For Up To 1' Extra Height, Add	318.11	
	For 14 Gauge, Level 4 Maximum Duty, Add	459.86	
	For Galvanized Steel Door, Add	229.93	
	For Type 304 Stainless Steel Door, Add	919.72	
	For Type 316 Stainless Steel Door, Add	1,494.55	
	For Embossed Panel Door, Add	275.92	
	For Baked Enamel Finish, Add	364.22	
	For 20 Minute Fire Rated Door, Add	27.63	
	For 45 Minute Fire Rated Door, Add	41.40	
	For 60 Minute Fire Rated Door, Add	55.27	
	For 90 Minute Fire Rated Door, Add	93.38	
	For 3 Hour Fire Rated Door, Add	131.50	
	For >50 To 100, Deduct	-67.15	
	For >100, Deduct	-99.11	
	For 2" Thick Door, Add	86.57	
	For Polystyrene Core, Add	114.97	
	For Mineral Core, 250 Degree Maximum Temperature Rise, Add	287.41	
	For Continuously Welded And Filled Vertical Edge Seam, Add	143.71	
	For Steel Stiffened, Add	287.41	
08 13 13 13-0106	EA 2'-6" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,307.86	67.34
	For Up To 1' Extra Height, Add	324.62	
	For 14 Gauge, Level 4 Maximum Duty, Add	469.27	
	For Galvanized Steel Door, Add	234.63	
	For Type 304 Stainless Steel Door, Add	938.54	
	For Type 316 Stainless Steel Door, Add	1,525.12	
	For Embossed Panel Door, Add	281.56	
	For Baked Enamel Finish, Add	372.15	
	For 20 Minute Fire Rated Door, Add	27.63	
	For 45 Minute Fire Rated Door, Add	41.40	
	For 60 Minute Fire Rated Door, Add	55.27	
	For 90 Minute Fire Rated Door, Add	93.38	
	For 3 Hour Fire Rated Door, Add	131.50	
	For >50 To 100, Deduct	-68.76	
	For >100, Deduct	-101.46	
	For 2" Thick Door, Add	88.42	
	For Polystyrene Core, Add	117.32	
	For Mineral Core, 250 Degree Maximum Temperature Rise, Add	293.29	
	For Continuously Welded And Filled Vertical Edge Seam, Add	146.65	
	For Steel Stiffened, Add	293.29	



Openings	08	08
Doors and Frames	08 10	
Metal Doors	08 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0107 EA 2'-8" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,325.37	67.34
For Up To 1' Extra Height, Add	329.46	
For 14 Gauge, Level 4 Maximum Duty, Add	476.27	
For Galvanized Steel Door, Add	238.14	
For Type 304 Stainless Steel Door, Add	952.54	
For Type 316 Stainless Steel Door, Add	1,547.88	
For Embossed Panel Door, Add	285.76	
For Baked Enamel Finish, Add	377.41	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-69.64	
For >100, Deduct	-102.77	
For 2" Thick Door, Add	89.69	
For Polystyrene Core, Add	119.07	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	297.67	
For Continuously Welded And Filled Vertical Edge Seam, Add	148.84	
For Steel Stiffened, Add	297.67	
08 13 13 13-0108 EA 2'-10" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,335.30	68.81
For Up To 1' Extra Height, Add	331.40	
For 14 Gauge, Level 4 Maximum Duty, Add	479.07	
For Galvanized Steel Door, Add	239.54	
For Type 304 Stainless Steel Door, Add	958.14	
For Type 316 Stainless Steel Door, Add	1,556.98	
For Embossed Panel Door, Add	287.44	
For Baked Enamel Finish, Add	379.95	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-70.21	
For >100, Deduct	-103.59	
For 2" Thick Door, Add	90.27	
For Polystyrene Core, Add	119.77	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	299.42	
For Continuously Welded And Filled Vertical Edge Seam, Add	149.71	
For Steel Stiffened, Add	299.42	
08 13 13 13-0109 EA 3' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,345.22	70.27
For Up To 1' Extra Height, Add	333.33	
For 14 Gauge, Level 4 Maximum Duty, Add	481.87	
For Galvanized Steel Door, Add	240.94	
For Type 304 Stainless Steel Door, Add	963.74	
For Type 316 Stainless Steel Door, Add	1,566.08	
For Embossed Panel Door, Add	289.12	
For Baked Enamel Finish, Add	382.49	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-70.77	
For >100, Deduct	-104.41	
For 2" Thick Door, Add	90.85	
For Polystyrene Core, Add	120.47	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	301.17	
For Continuously Welded And Filled Vertical Edge Seam, Add	150.59	
For Steel Stiffened, Add	301.17	
08 13 13 13-0110 EA 3'-4" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,436.27	70.27
For Up To 1' Extra Height, Add	358.53	
For 14 Gauge, Level 4 Maximum Duty, Add	518.29	
For Galvanized Steel Door, Add	259.15	
For Type 304 Stainless Steel Door, Add	1,036.58	
For Type 316 Stainless Steel Door, Add	1,684.45	
For Embossed Panel Door, Add	310.98	
For Baked Enamel Finish, Add	409.80	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-75.33	
For >100, Deduct	-111.23	
For 2" Thick Door, Add	97.45	
For Polystyrene Core, Add	129.57	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	323.93	
For Continuously Welded And Filled Vertical Edge Seam, Add	161.97	
For Steel Stiffened, Add	323.93	

08 Openings**08 10 Doors and Frames****08 13 Metal Doors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 13 13 13-0111 EA 3'-6" x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door	1,477.16	73.20
For Up To 1' Extra Height, Add	368.22	
For 1' To 1'-6" Extra Height, Add	702.51	
For 14 Gauge, Level 4 Maximum Duty, Add	532.30	
For Galvanized Steel Door, Add	266.15	
For Type 304 Stainless Steel Door, Add	1,064.61	
For Type 316 Stainless Steel Door, Add	1,729.99	
For Embossed Panel Door, Add	319.38	
For Baked Enamel Finish, Add	421.19	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-77.52	
For >100, Deduct	-114.45	
For 2" Thick Door, Add	100.14	
For Polystyrene Core, Add	133.08	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	332.69	
For Continuously Welded And Filled Vertical Edge Seam, Add	166.35	
For Steel Stiffened, Add	332.69	
08 13 13 13-0112 EA 4' x 8' x 1-3/4", 16 Gauge, Level 3 Extra Heavy Duty, Honeycomb Core, Hollow Metal Door.....	1,628.95	79.06
For Up To 1' Extra Height, Add	406.98	
For 1' To 1'-6" Extra Height, Add	776.45	
For 14 Gauge, Level 4 Maximum Duty, Add	588.33	
For Galvanized Steel Door, Add	294.17	
For Type 304 Stainless Steel Door, Add	1,176.66	
For Type 316 Stainless Steel Door, Add	1,912.08	
For Embossed Panel Door, Add	353.00	
For Baked Enamel Finish, Add	464.97	
For 20 Minute Fire Rated Door, Add	27.63	
For 45 Minute Fire Rated Door, Add	41.40	
For 60 Minute Fire Rated Door, Add	55.27	
For 90 Minute Fire Rated Door, Add	93.38	
For 3 Hour Fire Rated Door, Add	131.50	
For >50 To 100, Deduct	-85.40	
For >100, Deduct	-126.12	
For 2" Thick Door, Add	110.59	
For Polystyrene Core, Add	147.08	
For Mineral Core, 250 Degree Maximum Temperature Rise, Add	367.71	
For Continuously Welded And Filled Vertical Edge Seam, Add	183.85	
For Steel Stiffened, Add	367.71	
08 13 13 53 Custom Hollow Metal Doors (08 13 13)		
08 13 13 53-0001 Steel 18 Gauge 1-3/4" Unrated Door (08 13 13 53)		
08 13 13 53-0002 EA 2'-2" Or 2'-4" x 6'-9" x 1-3/4", 18 Gauge, Unrated, With Semicircular Head, Hollow Metal Door.....	2,342.32	146.40
For 16 Gauge Door, Add	20.30	
08 13 13 53-0003 EA 2'-6" x 6'-9" x 1-3/4", 18 Gauge, Unrated, With Semicircular Head, Hollow Metal Door.....	2,451.28	175.68
For 16 Gauge Door, Add	20.30	
08 13 73 Sliding Metal Doors (08 13)		
08 13 73 00-0001 Sliding Bypass Mirror Doors (08 13 73)		
Note: Includes 3.0 mm thick, steel frameless safety backed mirrors with anti-jump rollers and guides.		
08 13 73 00-0002 EA 4' x 6' 8", Sliding Bypass Mirror Doors	372.24	87.85
08 13 73 00-0003 EA 5' x 6' 8", Sliding Bypass Mirror Doors	418.14	93.70
08 13 73 00-0004 EA 6' x 6' 8", Sliding Bypass Mirror Doors	464.03	99.55
08 13 73 00-0005 EA 8' x 6' 8", Sliding Bypass Mirror Doors	544.11	105.41
08 30 Specialty Doors and Frames (08)		
Note: Includes caulk, sealant and mounting anchors.		
08 31 Access Doors and Panels (08 30)		
See CSI section 07 72 33 00-0000 for roof hatches, 23 33 33 00-0000 for duct-mounted access doors.		
08 31 13 Access Doors and Frames (08 31)		
08 31 13 00-0001 Stainless Steel Access Doors (08 31 13)		
08 31 13 00-0002 Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)		
08 31 13 00-0003 EA 12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch.....	396.92	68.45
08 31 13 00-0004 EA 12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....	458.82	72.92
08 31 13 00-0005 EA 18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....	532.12	77.13
08 31 13 00-0006 EA 24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch.....	610.61	81.04
08 31 13 00-0007 EA 24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch.....	623.98	81.46
08 31 13 00-0008 EA 24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch.....	806.05	83.99
08 31 13 00-0009 Stainless Steel Access Doors (08 31 13 00-0001)		
08 31 13 00-0010 EA 8" x 8" Stainless Steel Access Door With Cam Latch	176.14	52.49
08 31 13 00-0011 EA 12" x 12" Stainless Steel Access Door With Cam Latch	206.63	68.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 31 13 00-0012 EA 12" x 18" Stainless Steel Access Door With Cam Latch	282.62	72.92
08 31 13 00-0013 EA 18" x 18" Stainless Steel Access Door With Cam Latch	302.85	77.13
08 31 13 00-0014 EA 24" x 18" Stainless Steel Access Door With Cam Latch	347.58	81.04
08 31 13 00-0015 EA 24" x 24" Stainless Steel Access Door With Cam Latch	390.99	81.46
08 31 13 00-0016 Steel Access Doors <small>(08 31 13)</small>		
Note: Includes paintable powder coated finish.		
08 31 13 00-0017 Insulated Fire Rated Steel Access Doors <small>(08 31 13 00-0016)</small>		
08 31 13 00-0018 EA 12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch	273.67	68.87
08 31 13 00-0019 EA 12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	333.92	72.92
08 31 13 00-0020 EA 18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	335.42	77.13
08 31 13 00-0021 EA 24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	394.34	81.46
08 31 13 00-0022 EA 24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch	410.73	81.46
08 31 13 00-0023 EA 24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	539.52	83.99
08 31 13 00-0024 EA 24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	617.55	87.48
08 31 13 00-0025 EA 36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	753.23	87.48
08 31 13 00-0026 EA 48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	963.02	104.98
08 31 13 00-0027 Steel Access Doors <small>(08 31 13 00-0016)</small>		
08 31 13 00-0028 EA 8" x 8" Steel Access Door With Cam Latch	151.87	52.77
08 31 13 00-0029 EA 12" x 12" Steel Access Door With Cam Latch	162.56	68.87
08 31 13 00-0030 EA 12" x 18" Steel Access Door With Cam Latch	184.58	72.92
08 31 13 00-0031 EA 18" x 18" Steel Access Door With Cam Latch	190.63	77.13
08 31 13 00-0032 EA 24" x 18" Steel Access Door With Cam Latch	222.24	81.46
08 31 13 00-0033 EA 24" x 24" Steel Access Door With Cam Latch	226.76	81.46
08 31 13 00-0034 EA 24" x 36" Steel Access Door With Cam Latch	292.71	83.99
08 31 13 00-0035 EA 36" x 36" Steel Access Door With Cam Latch	375.17	87.48
08 31 13 00-0036 Steel Recessed Access Doors For Drywall Application <small>(08 31 13)</small>		
Note: Includes paintable powder coated finish.		
08 31 13 00-0037 EA 8" x 8" Recessed Steel Access Door With Cam Latch	206.06	52.49
<i>For Recessed Doors In Acoustical Tile, Add</i>		26.83
08 31 13 00-0038 EA 12" x 12" Recessed Steel Access Door With Cam Latch	216.29	56.27
<i>For Recessed Doors In Acoustical Tile, Add</i>		29.42
08 31 13 00-0039 EA 12" x 18" Recessed Steel Access Door With Cam Latch	232.00	59.49
<i>For Recessed Doors In Acoustical Tile, Add</i>		30.66
08 31 13 00-0040 EA 18" x 18" Recessed Steel Access Door With Cam Latch	268.94	62.98
<i>For Recessed Doors In Acoustical Tile, Add</i>		28.95
08 31 13 00-0041 EA 24" x 18" Recessed Steel Access Door With Cam Latch	283.08	66.48
<i>For Recessed Doors In Acoustical Tile, Add</i>		30.69
08 31 13 00-0042 EA 24" x 24" Recessed Steel Access Door With Cam Latch	306.92	66.48
<i>For Recessed Doors In Acoustical Tile, Add</i>		27.11
08 31 13 00-0043 EA 24" x 36" Recessed Steel Access Door With Cam Latch	382.86	83.99
<i>For Recessed Doors In Acoustical Tile, Add</i>		34.95
08 31 13 00-0044 EA 36" x 36" Recessed Steel Access Door With Cam Latch	531.45	87.48
<i>For Recessed Doors In Acoustical Tile, Add</i>		16.52
08 31 13 00-0045 Steel Crawl Space Doors And Frames <small>(08 31 13)</small>		
Note: Includes paintable powder coated finish.		
08 31 13 00-0046 EA 24" x 24" Steel Crawl Space Door With Cam Latch	239.92	88.60
08 31 13 00-0047 EA 30" x 24" Steel Crawl Space Door With Cam Latch	330.97	107.36
08 31 13 00-0048 EA 30" x 30" Steel Crawl Space Door With Cam Latch	369.64	116.60
08 33 Coiling Doors and Grilles <small>(08 33)</small>		
08 33 13 Coiling Counter Doors <small>(08 33)</small>		
08 33 13 00-0001 Overhead Rolling Counter Doors <small>(08 33 13)</small>		
08 33 13 00-0002 Galvanized Steel Overhead Rolling Counter Doors <small>(08 33 13 00-0001)</small>		
Note: Includes necessary anchors, track and hardware. Includes galvanized steel primed with choice of baked-on polyester top coat finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33 13 00-0003 EA 4' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	6,211.02	417.82
<i>For Motor Operator (With Safety Reverse), Add</i>		754.45
08 33 13 00-0004 EA 6' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	6,524.14	417.82
<i>For Motor Operator (With Safety Reverse), Add</i>		754.45
08 33 13 00-0005 EA 8' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	7,046.48	443.93
<i>For Motor Operator (With Safety Reverse), Add</i>		759.72
08 33 13 00-0006 EA 10' x 4', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	7,561.58	522.27
<i>For Motor Operator (With Safety Reverse), Add</i>		779.92
08 33 13 00-0007 EA 4' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	7,620.06	417.82
<i>For Motor Operator (With Safety Reverse), Add</i>		754.45
08 33 13 00-0008 EA 6' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	7,970.95	464.19
<i>For Motor Operator (With Safety Reverse), Add</i>		766.06
08 33 13 00-0009 EA 8' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650)	8,173.94	482.79
<i>For Motor Operator (With Safety Reverse), Add</i>		770.70

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 13 00-0010	EA		10' x 6', Galvanized Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 650) <i>For Motor Operator (With Safety Reverse), Add</i>	8,663.99 780.57	522.27
08 33 13 00-0011			Stainless Steel Overhead Rolling Counter Doors <small>(08 33 13 00-0001)</small> Note: Includes necessary anchors, track and hardware. Includes No. 4 stainless steel finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33 13 00-0012	EA		4' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	6,993.82 754.45	417.82
08 33 13 00-0013	EA		6' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	7,854.90 754.45	417.82
08 33 13 00-0014	EA		8' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	8,064.12 759.72	443.93
08 33 13 00-0015	EA		10' x 4', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	9,831.70 779.92	522.27
08 33 13 00-0016	EA		4' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	8,402.86 754.45	417.82
08 33 13 00-0017	EA		6' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	8,675.47 766.06	464.19
08 33 13 00-0018	EA		8' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	8,878.46 770.70	482.79
08 33 13 00-0019	EA		10' x 6', Stainless Steel Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 651)..... <i>For Motor Operator (With Safety Reverse), Add</i>	11,325.51 780.57	522.27
08 33 13 00-0020			Aluminum Overhead Rolling Counter Doors <small>(08 33 13 00-0001)</small> Note: Includes necessary anchors, track and hardware. Includes clear anodized aluminum finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33 13 00-0021	EA		4' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	6,837.26 754.45	417.82
08 33 13 00-0022	EA		6' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	7,150.38 754.45	417.82
08 33 13 00-0023	EA		8' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	7,985.84 759.72	443.93
08 33 13 00-0024	EA		10' x 4', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	9,440.30 779.92	522.27
08 33 13 00-0025	EA		4' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	8,246.30 754.45	417.82
08 33 13 00-0026	EA		6' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	8,597.19 766.06	464.19
08 33 13 00-0027	EA		8' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	8,839.32 770.70	482.79
08 33 13 00-0028	EA		10' x 6', Aluminum Overhead Rolling Counter Doors, Manual Lift (Overhead Door Company, Series 652) <i>For Motor Operator (With Safety Reverse), Add</i>	11,168.95 780.57	522.27
08 33 13 00-0029			Galvanized Steel Overhead Rolling Counter Fire Doors <small>(08 33 13 00-0001)</small> Note: Includes necessary anchors, track and hardware. Includes galvanized steel primed with choice of baked-on polyester top coat finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33 13 00-0030	EA		4' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	8,089.74 754.45	417.82
08 33 13 00-0031	EA		6' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	8,559.42 754.45	417.82
08 33 13 00-0032	EA		8' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	9,238.32 759.72	443.93
08 33 13 00-0033	EA		10' x 4', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	9,909.98 779.92	522.27
08 33 13 00-0034	EA		4' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	9,029.10 754.45	417.82
08 33 13 00-0035	EA		6' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	9,458.27 766.06	464.19
08 33 13 00-0036	EA		8' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	9,817.82 770.70	482.79
08 33 13 00-0037	EA		10' x 6', Galvanized Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 640) <i>For Motor Operator (With Safety Reverse), Add</i>	10,073.03 780.57	522.27
08 33 13 00-0038			Stainless Steel Overhead Rolling Counter Fire Doors <small>(08 33 13 00-0001)</small> Note: Includes necessary anchors, track and hardware. Includes No. 4 stainless steel finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33 13 00-0039	EA		4' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641)..... <i>For Motor Operator (With Safety Reverse), Add</i>	9,185.66 754.45	417.82
08 33 13 00-0040	EA		6' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641)..... <i>For Motor Operator (With Safety Reverse), Add</i>	10,438.14 754.45	417.82



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	08 33	13 00-0041	EA	8' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) <i>For Motor Operator (With Safety Reverse), Add</i>	10,647.36 759.72	443.93
	08 33	13 00-0042	EA	10' x 4', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) ... <i>For Motor Operator (With Safety Reverse), Add</i>	13,041.18 779.92	522.27
	08 33	13 00-0043	EA	4' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) <i>For Motor Operator (With Safety Reverse), Add</i>	9,968.46 754.45	417.82
	08 33	13 00-0044	EA	6' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) <i>For Motor Operator (With Safety Reverse), Add</i>	10,319.35 766.06	464.19
	08 33	13 00-0045	EA	8' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) <i>For Motor Operator (With Safety Reverse), Add</i>	10,678.90 770.70	482.79
	08 33	13 00-0046	EA	10' x 6', Stainless Steel Overhead Rolling Counter Fire Doors, Manual Lift (Overhead Door Company, Series 641) ... <i>For Motor Operator (With Safety Reverse), Add</i>	13,204.23 780.57	522.27
	08 33	13 00-0047		Integral Frame And Sill, Overhead Rolling Counter Doors <small>(08 33 13)</small>		
	08 33	13 00-0048		Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill <small>(08 33 13 00-0047)</small> Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish, aluminum slats are finished with clear anodized finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
	08 33	13 00-0049	EA	4' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	13,256.22 754.45	417.82
	08 33	13 00-0050	EA	6' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	13,569.34 754.45	417.82
	08 33	13 00-0051	EA	8' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	13,935.12 759.72	443.93
	08 33	13 00-0052	EA	10' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	14,450.22 779.92	522.27
	08 33	13 00-0053	EA	4' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	13,725.90 754.45	417.82
	08 33	13 00-0054	EA	6' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	14,155.07 766.06	464.19
	08 33	13 00-0055	EA	8' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	14,514.62 770.70	482.79
	08 33	13 00-0056	EA	10' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 655) <i>For Motor Operator (With Safety Reverse), Add</i>	16,178.87 780.57	522.27
	08 33	13 00-0057		Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Frame and Stainless Steel Sill <small>(08 33 13 00-0047)</small> Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish, aluminum slats are finished with clear anodized finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
	08 33	13 00-0058	EA	4' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	11,690.62 754.45	417.82
	08 33	13 00-0059	EA	6' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	12,003.74 754.45	417.82
	08 33	13 00-0060	EA	8' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	12,369.52 759.72	443.93
	08 33	13 00-0061	EA	10' x 4', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	12,884.62 779.92	522.27
	08 33	13 00-0062	EA	4' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	13,099.66 754.45	417.82
	08 33	13 00-0063	EA	6' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	13,528.83 766.06	464.19
	08 33	13 00-0064	EA	8' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	14,044.94 770.70	482.79
	08 33	13 00-0065	EA	10' x 6', Integral Frame And Sill, Aluminum Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 656) <i>For Motor Operator (With Safety Reverse), Add</i>	14,456.71 780.57	522.27
	08 33	13 00-0066		Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill <small>(08 33 13 00-0047)</small> Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33	13 00-0067	EA	4' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	18,266.14	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0068	EA	6' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	19,831.74	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0069	EA	8' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	23,015.60	443.93
			<i>For Motor Operator (With Safety Reverse), Add</i>	759.72	
08 33	13 00-0070	EA	10' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	24,783.18	522.27
			<i>For Motor Operator (With Safety Reverse), Add</i>	779.92	
08 33	13 00-0071	EA	4' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	20,614.54	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0072	EA	6' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	22,296.19	464.19
			<i>For Motor Operator (With Safety Reverse), Add</i>	766.06	
08 33	13 00-0073	EA	8' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	24,691.02	482.79
			<i>For Motor Operator (With Safety Reverse), Add</i>	770.70	
08 33	13 00-0074	EA	10' x 6', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Doors With Stainless Steel Frame and Sill, Manual Lift (Overhead Door Company, Series 657)	27,920.87	522.27
			<i>For Motor Operator (With Safety Reverse), Add</i>	780.57	
08 33	13 00-0075		Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Frame and Stainless Steel Sill <small>(08 33 13 00-0047)</small>		
			Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33	13 00-0076	EA	4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	15,448.06	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0077	EA	6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	15,761.18	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0078	EA	8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	16,440.08	443.93
			<i>For Motor Operator (With Safety Reverse), Add</i>	759.72	
08 33	13 00-0079	EA	10' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	17,737.98	522.27
			<i>For Motor Operator (With Safety Reverse), Add</i>	779.92	
08 33	13 00-0080	EA	4' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	16,387.42	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0081	EA	6' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	17,442.83	464.19
			<i>For Motor Operator (With Safety Reverse), Add</i>	766.06	
08 33	13 00-0082	EA	8' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	18,428.62	482.79
			<i>For Motor Operator (With Safety Reverse), Add</i>	770.70	
08 33	13 00-0083	EA	10' x 6', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Doors With Galvanized Steel Frame, Stainless Steel Sill, Manual Lift (Overhead Door Company, Series 658).....	21,658.47	522.27
			<i>For Motor Operator (With Safety Reverse), Add</i>	780.57	
08 33	13 00-0084		Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood <small>(08 33 13 00-0047)</small>		
			Note: Includes necessary anchors, track and hardware. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33	13 00-0085	EA	4' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660)	22,180.14	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0086	EA	6' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660)	22,962.94	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
08 33	13 00-0087	EA	8' x 4', Integral Frame And Sill, Stainless Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 660)	26,146.80	443.93
			<i>For Motor Operator (With Safety Reverse), Add</i>	759.72	
08 33	13 00-0088		Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood <small>(08 33 13 00-0047)</small>		
			Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
08 33	13 00-0089	EA	4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661)	16,700.54	417.82
			<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	08 33 13 00-0090	EA		6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661).....	22,962.94	417.82
				<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
	08 33 13 00-0091	EA		8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Galvanized Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 661).....	26,146.80	443.93
				<i>For Motor Operator (With Safety Reverse), Add</i>	759.72	
08 33 13 00-0092				Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood <small>(08 33 13 00-0047)</small>		
				Note: Includes necessary anchors, track and hardware. Galvanized steel surfaces feature a baked-on primer coat to enhance overall durability and minimize field painting. Stainless surfaces feature a standard No. 4 finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.		
	08 33 13 00-0093	EA		4' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....	14,508.70	417.82
				<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
	08 33 13 00-0094	EA		6' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....	16,387.42	417.82
				<i>For Motor Operator (With Safety Reverse), Add</i>	754.45	
	08 33 13 00-0095	EA		8' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....	17,536.00	443.93
				<i>For Motor Operator (With Safety Reverse), Add</i>	759.72	
	08 33 13 00-0096	EA		10' x 4', Integral Frame And Sill, Galvanized Steel Overhead Rolling Counter Fire Doors With Stainless Steel Frame and Hood, Manual Lift (Overhead Door Company, Series 662).....	19,303.58	522.27
				<i>For Motor Operator (With Safety Reverse), Add</i>	779.92	
08 33 16				Coiling Counter Grilles <small>(08 33)</small>		
08 33 16 00-0001				Galvanized Steel Overhead Coiling Counter Grilles (Width x Height) <small>(08 33 16)</small>		
	08 33 16 00-0002	EA		4' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	1,932.41	182.80
				<i>For Lexan Lattice Pattern, Add</i>	211.52	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	88.01	
				<i>For Staggered Brick Pattern, Add</i>	156.68	
	08 33 16 00-0003	EA		6' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,112.75	182.80
				<i>For Lexan Lattice Pattern, Add</i>	238.57	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	121.11	
				<i>For Staggered Brick Pattern, Add</i>	212.55	
	08 33 16 00-0004	EA		8' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,468.87	243.70
				<i>For Lexan Lattice Pattern, Add</i>	265.88	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	154.22	
				<i>For Staggered Brick Pattern, Add</i>	268.42	
	08 33 16 00-0005	EA		12' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,902.88	243.70
				<i>For Lexan Lattice Pattern, Add</i>	330.98	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	220.42	
				<i>For Staggered Brick Pattern, Add</i>	380.17	
	08 33 16 00-0006	EA		16' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	3,962.06	365.58
				<i>For Lexan Lattice Pattern, Add</i>	437.63	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	330.21	
				<i>For Staggered Brick Pattern, Add</i>	501.30	
	08 33 16 00-0007	EA		18' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	4,490.95	417.82
				<i>For Lexan Lattice Pattern, Add</i>	490.95	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	330.21	
				<i>For Staggered Brick Pattern, Add</i>	501.30	
	08 33 16 00-0008	EA		20' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	5,021.24	487.28
				<i>For Lexan Lattice Pattern, Add</i>	544.28	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	439.99	
				<i>For Staggered Brick Pattern, Add</i>	622.43	
	08 33 16 00-0009	EA		24' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	6,247.59	584.94
				<i>For Lexan Lattice Pattern, Add</i>	686.05	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	528.00	
				<i>For Staggered Brick Pattern, Add</i>	643.63	
	08 33 16 00-0010	EA		30' x 4', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	7,679.58	731.18
				<i>For Lexan Lattice Pattern, Add</i>	838.58	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	618.00	
				<i>For Staggered Brick Pattern, Add</i>	738.82	
	08 33 16 00-0011	EA		4' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,070.07	182.80
				<i>For Lexan Lattice Pattern, Add</i>	232.17	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	131.99	
				<i>For Staggered Brick Pattern, Add</i>	182.03	
	08 33 16 00-0012	EA		6' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,329.09	182.80
				<i>For Lexan Lattice Pattern, Add</i>	271.02	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	197.97	
				<i>For Staggered Brick Pattern, Add</i>	247.56	
	08 33 16 00-0013	EA		8' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	2,655.96	243.80
				<i>For Lexan Lattice Pattern, Add</i>	293.94	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	263.94	
				<i>For Staggered Brick Pattern, Add</i>	313.10	
	08 33 16 00-0014	EA		12' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	3,156.02	243.80
				<i>For Lexan Lattice Pattern, Add</i>	368.95	
				<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	396.00	
				<i>For Staggered Brick Pattern, Add</i>	444.16	

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 16 00-0015 EA 16' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	4,317.13	365.58
For Lexan Lattice Pattern, Add	490.89	
For Aluminum With Clear Or Anodized Bronze Finish, Add	528.00	
For Staggered Brick Pattern, Add	611.44	
08 33 16 00-0016 EA 18' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	4,896.98	417.82
For Lexan Lattice Pattern, Add	551.86	
For Aluminum With Clear Or Anodized Bronze Finish, Add	528.00	
For Staggered Brick Pattern, Add	611.44	
08 33 16 00-0017 EA 20' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	5,474.51	487.28
For Lexan Lattice Pattern, Add	612.83	
For Aluminum With Clear Or Anodized Bronze Finish, Add	660.00	
For Staggered Brick Pattern, Add	778.72	
08 33 16 00-0018 EA 24' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	6,839.80	584.94
For Lexan Lattice Pattern, Add	774.88	
For Aluminum With Clear Or Anodized Bronze Finish, Add	791.99	
For Staggered Brick Pattern, Add	897.71	
08 33 16 00-0019 EA 30' x 6', Galvanized Steel Overhead Coiling Counter Grilles, Manual Lift.....	8,269.41	731.18
For Lexan Lattice Pattern, Add	927.05	
For Aluminum With Clear Or Anodized Bronze Finish, Add	922.09	
For Staggered Brick Pattern, Add	1,006.39	

08 33 23 Overhead Coiling Doors (08 33)

Note: Includes panels, guides, counterbalance mechanisms, hardware, operators, frame, supports and/or trim as required. Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0874 for forklift.

08 33 23 11 Overhead Coiling Doors (08 33 23)

Note: Excludes lifting equipment (forklift or scissor lift) where required.

08 33 23 11-0001 Galvanized Steel Overhead Coiling Doors (Width x Height) (08 33 23 11)

Note: Includes necessary anchors, track, and hardware. Includes galvanized steel primed with choice of baked-on polyester top coat finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.

08 33 23 11-0002 26 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 11-0001)

08 33 23 11-0003 EA 4' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,232.64	548.04
08 33 23 11-0004 EA 4' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,315.93	580.28
08 33 23 11-0005 EA 5' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,313.73	580.28
08 33 23 11-0006 EA 5' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,399.86	612.52
08 33 23 11-0007 EA 6' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,427.05	628.67
08 33 23 11-0008 EA 6' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,545.19	676.99
08 33 23 11-0009 EA 6' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,639.54	709.24
08 33 23 11-0010 EA 8' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,617.84	709.24
08 33 23 11-0011 EA 8' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,665.81	725.35
08 33 23 11-0012 EA 8' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,720.75	741.47
08 33 23 11-0013 EA 8' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,829.15	773.71
08 33 23 11-0014 EA 10' x 7', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,717.73	741.47
08 33 23 11-0015 EA 10' x 8', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,814.70	773.71
08 33 23 11-0016 EA 10' x 9', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	1,922.53	805.94
08 33 23 11-0017 EA 10' x 10', 26 Gauge Galvanized Steel Overhead Coiling Door, Manual Lift.....	2,009.39	838.19

08 33 23 11-0018 24 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 11-0001)

Note: With curtain hood (barrel cover).

08 33 23 11-0019 EA 8' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	2,668.53	815.61
For Insulated, Add	900.31	
08 33 23 11-0020 EA 8' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	2,741.52	834.16
For Insulated, Add	929.99	
08 33 23 11-0021 EA 8' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	2,957.84	889.76
For Insulated, Add	1,017.20	
08 33 23 11-0022 EA 8' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,141.37	926.84
For Insulated, Add	1,104.79	
08 33 23 11-0023 EA 10' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	2,842.78	852.69
For Insulated, Add	980.95	
08 33 23 11-0024 EA 10' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,072.85	926.84
For Insulated, Add	1,053.40	
08 33 23 11-0025 EA 10' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,228.75	963.92
For Insulated, Add	1,120.28	
08 33 23 11-0026 EA 10' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,420.75	1,000.98
For Insulated, Add	1,214.23	
08 33 23 11-0027 EA 12' x 7', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,024.06	889.76
For Insulated, Add	1,066.86	
08 33 23 11-0028 EA 12' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,192.94	926.84
For Insulated, Add	1,143.47	
08 33 23 11-0029 EA 12' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,435.97	1,000.98
For Insulated, Add	1,225.65	
08 33 23 11-0030 EA 12' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,672.57	1,033.23
For Insulated, Add	1,359.58	
08 33 23 11-0031 EA 14' x 8', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	3,783.60	1,097.70
For Insulated, Add	1,355.81	
08 33 23 11-0032 EA 14' x 10', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	4,109.74	1,162.18
For Insulated, Add	1,513.37	
08 33 23 11-0033 EA 14' x 12', 24 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	4,447.82	1,226.65
For Insulated, Add	1,679.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23	11-0034		22 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 11-0001)		
			Note: With curtain hood (barrel cover).		
08 33 23	11-0035	EA	4' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,361.88	734.05
			<i>For Insulated, Add</i>	780.44	
08 33 23	11-0036	EA	4' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,532.88	774.84
			<i>For Insulated, Add</i>	853.59	
08 33 23	11-0037	EA	4' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,656.38	807.08
			<i>For Insulated, Add</i>	902.69	
08 33 23	11-0038	EA	6' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,706.60	856.41
			<i>For Insulated, Add</i>	873.77	
08 33 23	11-0039	EA	6' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,969.09	937.97
			<i>For Insulated, Add</i>	960.52	
08 33 23	11-0040	EA	6' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,124.88	970.20
			<i>For Insulated, Add</i>	1,033.85	
08 33 23	11-0041	EA	6' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,470.39	1,002.45
			<i>For Insulated, Add</i>	1,249.46	
08 33 23	11-0042	EA	6' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,848.14	1,050.80
			<i>For Insulated, Add</i>	1,467.49	
08 33 23	11-0043	EA	8' x 8', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	2,934.11	917.57
			<i>For Insulated, Add</i>	961.89	
08 33 23	11-0044	EA	8' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,166.38	978.74
			<i>For Insulated, Add</i>	1,053.49	
08 33 23	11-0045	EA	8' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,347.98	1,019.52
			<i>For Insulated, Add</i>	1,134.59	
08 33 23	11-0046	EA	8' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,680.93	1,051.77
			<i>For Insulated, Add</i>	1,340.78	
08 33 23	11-0047	EA	8' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,046.10	1,100.13
			<i>For Insulated, Add</i>	1,549.37	
08 33 23	11-0048	EA	10' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,448.90	1,060.30
			<i>For Insulated, Add</i>	1,155.26	
08 33 23	11-0049	EA	10' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,678.61	1,101.09
			<i>For Insulated, Add</i>	1,272.45	
08 33 23	11-0050	EA	10' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,088.52	1,165.56
			<i>For Insulated, Add</i>	1,492.84	
08 33 23	11-0051	EA	10' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,562.92	1,262.28
			<i>For Insulated, Add</i>	1,718.08	
08 33 23	11-0052	EA	10' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,067.96	1,391.23
			<i>For Insulated, Add</i>	1,922.78	
08 33 23	11-0053	EA	10' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,637.49	1,552.42
			<i>For Insulated, Add</i>	2,132.32	
08 33 23	11-0054	EA	10' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,271.50	1,745.85
			<i>For Insulated, Add</i>	2,346.69	
08 33 23	11-0055	EA	10' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,968.91	1,971.51
			<i>For Insulated, Add</i>	2,565.11	
08 33 23	11-0056	EA	12' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,688.54	1,101.09
			<i>For Insulated, Add</i>	1,279.90	
08 33 23	11-0057	EA	12' x 12', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	3,913.06	1,136.55
			<i>For Insulated, Add</i>	1,400.42	
08 33 23	11-0058	EA	12' x 14', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,414.08	1,201.03
			<i>For Insulated, Add</i>	1,689.14	
08 33 23	11-0059	EA	12' x 16', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,979.57	1,297.74
			<i>For Insulated, Add</i>	1,982.69	
08 33 23	11-0060	EA	12' x 18', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,557.92	1,426.69
			<i>For Insulated, Add</i>	2,242.37	
08 33 23	11-0061	EA	12' x 20', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,200.74	1,587.88
			<i>For Insulated, Add</i>	2,506.88	
08 33 23	11-0062	EA	12' x 22', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,908.03	1,781.31
			<i>For Insulated, Add</i>	2,776.22	
08 33 23	11-0063	EA	12' x 24', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	7,744.26	2,039.21
			<i>For Insulated, Add</i>	3,055.23	
08 33 23	11-0064		20 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 11-0001)		
			Note: With curtain hood (barrel cover).		
08 33 23	11-0065	EA	14' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,463.63	1,282.11
			<i>For Insulated, Add</i>	1,616.89	
08 33 23	11-0066	EA	14' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	4,850.47	1,346.59
			<i>For Insulated, Add</i>	1,819.98	
08 33 23	11-0067	EA	14' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,305.93	1,411.06
			<i>For Insulated, Add</i>	2,074.53	
08 33 23	11-0068	EA	14' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,782.97	1,507.77
			<i>For Insulated, Add</i>	2,301.75	
08 33 23	11-0069	EA	14' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,347.92	1,636.73
			<i>For Insulated, Add</i>	2,551.37	
08 33 23	11-0070	EA	14' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	6,912.43	1,765.68
			<i>For Insulated, Add</i>	2,800.67	
08 33 23	11-0071	EA	14' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	8,004.78	1,926.87
			<i>For Insulated, Add</i>	3,402.33	
08 33 23	11-0072	EA	14' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	9,161.60	2,120.30
			<i>For Insulated, Add</i>	4,008.82	
08 33 23	11-0073	EA	16' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,324.30	1,474.43
			<i>For Insulated, Add</i>	2,002.74	
08 33 23	11-0074	EA	16' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift	5,757.29	1,538.91
			<i>For Insulated, Add</i>	2,240.44	

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 11-0075	EA		16' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	6,148.53	1,603.38
			<i>For Insulated, Add</i>	2,446.83	
08 33 23 11-0076	EA		16' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	6,616.33	1,700.09
			<i>For Insulated, Add</i>	2,667.12	
08 33 23 11-0077	EA		16' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	7,183.37	1,829.04
			<i>For Insulated, Add</i>	2,918.32	
08 33 23 11-0078	EA		16' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	7,816.13	1,958.00
			<i>For Insulated, Add</i>	3,218.80	
08 33 23 11-0079	EA		16' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,748.08	2,119.19
			<i>For Insulated, Add</i>	3,700.16	
08 33 23 11-0080	EA		16' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	9,750.84	2,312.61
			<i>For Insulated, Add</i>	4,191.10	
08 33 23 11-0081	EA		18' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	5,804.86	1,658.74
			<i>For Insulated, Add</i>	2,114.31	
08 33 23 11-0082	EA		18' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	6,197.81	1,723.21
			<i>For Insulated, Add</i>	2,321.98	
08 33 23 11-0083	EA		18' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	6,820.05	1,819.92
			<i>For Insulated, Add</i>	2,658.10	
08 33 23 11-0084	EA		18' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	7,426.00	1,948.88
			<i>For Insulated, Add</i>	2,938.48	
08 33 23 11-0085	EA		18' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,099.66	2,110.07
			<i>For Insulated, Add</i>	3,226.12	
08 33 23 11-0086	EA		18' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,838.21	2,303.50
			<i>For Insulated, Add</i>	3,518.91	
08 33 23 11-0087	EA		18' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	10,016.79	2,529.16
			<i>For Insulated, Add</i>	4,098.19	
08 33 23 11-0088	EA		18' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	11,279.09	2,787.06
			<i>For Insulated, Add</i>	4,696.75	
08 33 23 11-0089	EA		20' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	6,644.11	1,907.56
			<i>For Insulated, Add</i>	2,407.85	
08 33 23 11-0090	EA		20' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	7,347.06	1,972.03
			<i>For Insulated, Add</i>	2,848.02	
08 33 23 11-0091	EA		20' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,390.69	2,332.30
			<i>For Insulated, Add</i>	3,144.44	
08 33 23 11-0092	EA		20' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	9,162.02	2,429.02
			<i>For Insulated, Add</i>	3,592.37	
08 33 23 11-0093	EA		20' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	10,099.26	2,557.97
			<i>For Insulated, Add</i>	4,121.22	
08 33 23 11-0094	EA		20' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	11,132.76	2,686.92
			<i>For Insulated, Add</i>	4,722.26	
08 33 23 11-0095	EA		20' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	12,235.28	2,848.11
			<i>For Insulated, Add</i>	5,331.55	
08 33 23 11-0096	EA		20' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	13,418.20	3,041.54
			<i>For Insulated, Add</i>	5,957.61	
08 33 23 11-0097	EA		22' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	7,401.22	2,258.16
			<i>For Insulated, Add</i>	2,502.43	
08 33 23 11-0098	EA		22' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,207.83	2,354.88
			<i>For Insulated, Add</i>	2,976.83	
08 33 23 11-0099	EA		22' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	9,352.18	2,565.53
			<i>For Insulated, Add</i>	3,550.64	
08 33 23 11-0100	EA		22' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	10,333.62	2,662.24
			<i>For Insulated, Add</i>	4,156.16	
08 33 23 11-0101	EA		22' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	11,382.55	2,791.19
			<i>For Insulated, Add</i>	4,768.77	
08 33 23 11-0102	EA		22' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	12,527.41	2,920.14
			<i>For Insulated, Add</i>	5,453.33	
08 33 23 11-0103	EA		22' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	13,739.91	3,081.33
			<i>For Insulated, Add</i>	6,145.10	
08 33 23 11-0104	EA		22' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	15,010.48	3,274.75
			<i>For Insulated, Add</i>	6,836.91	
08 33 23 11-0105	EA		24' x 10', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,153.78	2,483.96
			<i>For Insulated, Add</i>	2,761.95	
08 33 23 11-0106	EA		24' x 12', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	8,701.91	2,548.44
			<i>For Insulated, Add</i>	3,086.00	
08 33 23 11-0107	EA		24' x 14', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	9,830.40	2,612.92
			<i>For Insulated, Add</i>	3,845.33	
08 33 23 11-0108	EA		24' x 16', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	10,916.52	2,709.63
			<i>For Insulated, Add</i>	4,529.36	
08 33 23 11-0109	EA		24' x 18', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	12,027.82	2,838.58
			<i>For Insulated, Add</i>	5,188.75	
08 33 23 11-0110	EA		24' x 20', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	13,234.33	2,967.53
			<i>For Insulated, Add</i>	5,919.54	
08 33 23 11-0111	EA		24' x 22', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	13,225.17	2,401.02
			<i>For Insulated, Add</i>	6,678.76	
08 33 23 11-0112	EA		24' x 24', 20 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	16,227.26	3,322.15
			<i>For Insulated, Add</i>	7,685.51	
08 33 23 11-0113			18 Gauge Galvanized Steel Overhead Coiling Doors (08 33 23 11-0001)		
			Note: With curtain hood (barrel cover).		
08 33 23 11-0114	EA		14' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	4,748.55	1,282.11
			<i>For Insulated, Add</i>	1,830.58	
08 33 23 11-0115	EA		14' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift.....	5,174.08	1,346.59
			<i>For Insulated, Add</i>	2,062.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 11-0116	EA		14' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	5,678.51 2,353.97	1,411.06
08 33 23 11-0117	EA		14' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,198.09 2,613.09	1,507.77
08 33 23 11-0118	EA		14' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,809.10 2,897.26	1,636.73
08 33 23 11-0119	EA		14' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,419.60 3,181.05	1,765.68
08 33 23 11-0120	EA		14' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,627.44 3,869.33	1,926.87
08 33 23 11-0121	EA		14' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,899.76 4,562.44	2,120.30
08 33 23 11-0122	EA		16' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	5,680.61 2,269.98	1,474.43
08 33 23 11-0123	EA		16' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,159.21 2,541.88	1,538.91
08 33 23 11-0124	EA		16' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,589.80 2,777.79	1,603.38
08 33 23 11-0125	EA		16' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,098.75 3,028.93	1,700.09
08 33 23 11-0126	EA		16' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,712.17 3,314.92	1,829.04
08 33 23 11-0127	EA		16' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,401.16 3,657.58	1,958.00
08 33 23 11-0128	EA		16' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,424.54 4,207.51	2,119.19
08 33 23 11-0129	EA		16' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	10,519.68 4,767.73	2,312.61
08 33 23 11-0130	EA		18' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,177.97 2,394.14	1,658.74
08 33 23 11-0131	EA		18' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	6,610.50 2,631.49	1,723.21
08 33 23 11-0132	EA		18' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,297.08 3,015.87	1,819.92
08 33 23 11-0133	EA		18' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,955.23 3,335.40	1,948.88
08 33 23 11-0134	EA		18' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,681.58 3,662.56	2,110.07
08 33 23 11-0135	EA		18' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,472.88 3,994.91	2,303.50
08 33 23 11-0136	EA		18' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	10,760.56 4,656.02	2,529.16
08 33 23 11-0137	EA		18' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	12,134.82 5,338.54	2,787.06
08 33 23 11-0138	EA		20' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,068.45 2,726.10	1,907.56
08 33 23 11-0139	EA		20' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,857.50 3,230.85	1,972.03
08 33 23 11-0140	EA		20' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,804.70 3,454.95	2,332.30
08 33 23 11-0141	EA		20' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,640.25 3,951.04	2,429.02
08 33 23 11-0142	EA		20' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	10,652.96 4,536.49	2,557.97
08 33 23 11-0143	EA		20' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	11,772.66 5,202.19	2,686.92
08 33 23 11-0144	EA		20' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	12,961.85 5,876.48	2,848.11
08 33 23 11-0145	EA		20' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	14,233.22 6,568.88	3,041.54
08 33 23 11-0146	EA		22' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	7,721.76 2,742.84	2,258.16
08 33 23 11-0147	EA		22' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,596.51 3,268.34	2,354.88
08 33 23 11-0148	EA		22' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,821.19 3,902.40	2,565.53
08 33 23 11-0149	EA		22' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	10,890.18 4,573.58	2,662.24
08 33 23 11-0150	EA		22' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	12,027.01 5,252.12	2,791.19
08 33 23 11-0151	EA		22' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	13,270.42 6,010.59	2,920.14
08 33 23 11-0152	EA		22' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	14,581.82 6,776.53	3,081.33
08 33 23 11-0153	EA		22' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	15,950.58 7,541.98	3,274.75
08 33 23 11-0154	EA		24' x 10', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	8,507.76 3,027.43	2,483.96
08 33 23 11-0155	EA		24' x 12', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	9,102.47 3,386.42	2,548.44
08 33 23 11-0156	EA		24' x 14', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	10,342.01 4,229.04	2,612.92
08 33 23 11-0157	EA		24' x 16', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift <i>For Insulated, Add</i>	11,527.31 4,987.45	2,709.63

08 Openings
08 30 Specialty Doors and Frames
08 33 Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 11-0158	EA		24' x 18', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	12,733.44 5,717.96	2,838.58
08 33 23 11-0159	EA		24' x 20', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	14,045.35 6,527.81	2,967.53
08 33 23 11-0160	EA		24' x 22', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	14,161.23 7,380.84	2,401.02
08 33 23 11-0161	EA		24' x 24', 18 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift..... <i>For Insulated, Add</i>	17,292.02 8,484.08	3,322.15
08 33 23 11-0162 Aluminum Overhead Coiling Doors (Width x Height) (08 33 23 11-0161)					
Note: Includes necessary anchors, track and hardware. Includes clear anodized aluminum finish. Non-galvanized exposed ferrous surfaces shall receive one coat of rust-inhibitive primer. Excludes steel framing supports.					
08 33 23 11-0163 0.04" Aluminum Overhead Coiling Doors (08 33 23 11-0162)					
08 33 23 11-0164	EA		4' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,500.40	734.05
08 33 23 11-0165	EA		4' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	2,683.23	774.84
08 33 23 11-0166	EA		4' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,125.34	807.08
08 33 23 11-0167	EA		6' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,050.89	856.41
08 33 23 11-0168	EA		6' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,339.22	937.97
08 33 23 11-0169	EA		6' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,528.94	970.20
08 33 23 11-0170	EA		6' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,756.22	1,002.45
08 33 23 11-0171	EA		6' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,018.45	1,050.80
08 33 23 11-0172	EA		8' x 8', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,327.67	917.57
08 33 23 11-0173	EA		8' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,619.53	978.74
08 33 23 11-0174	EA		8' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,873.27	1,019.52
08 33 23 11-0175	EA		8' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,100.73	1,051.77
08 33 23 11-0176	EA		8' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,361.32	1,100.13
08 33 23 11-0177	EA		10' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	3,968.07	1,060.30
08 33 23 11-0178	EA		10' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,217.90	1,101.09
08 33 23 11-0179	EA		10' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,554.33	1,165.56
08 33 23 11-0180	EA		10' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,956.40	1,262.28
08 33 23 11-0181	EA		10' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,571.06	1,391.23
08 33 23 11-0182	EA		10' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,250.13	1,552.42
08 33 23 11-0183	EA		10' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,990.27	1,745.85
08 33 23 11-0184	EA		10' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift	7,795.87	1,971.51
08 33 23 11-0185	EA		12' x 10', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,213.68	1,101.09
08 33 23 11-0186	EA		12' x 12', 0.04" Aluminum Overhead Coiling Door, Chain Lift	4,690.93	1,136.55
08 33 23 11-0187	EA		12' x 14', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,136.54	1,201.03
08 33 23 11-0188	EA		12' x 16', 0.04" Aluminum Overhead Coiling Door, Chain Lift	5,648.55	1,297.74
08 33 23 11-0189	EA		12' x 18', 0.04" Aluminum Overhead Coiling Door, Chain Lift	6,337.99	1,426.69
08 33 23 11-0190	EA		12' x 20', 0.04" Aluminum Overhead Coiling Door, Chain Lift	7,093.54	1,587.88
08 33 23 11-0191	EA		12' x 22', 0.04" Aluminum Overhead Coiling Door, Chain Lift	7,675.18	1,781.31
08 33 23 11-0192	EA		12' x 24', 0.04" Aluminum Overhead Coiling Door, Chain Lift	8,387.96	2,039.21
08 33 23 11-0193 0.05" Aluminum Overhead Coiling Doors (08 33 23 11-0162)					
08 33 23 11-0194	EA		14' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	4,825.11	1,282.11
08 33 23 11-0195	EA		14' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,406.22	1,346.59
08 33 23 11-0196	EA		14' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,976.68	1,411.06
08 33 23 11-0197	EA		14' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,568.75	1,507.77
08 33 23 11-0198	EA		14' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,260.12	1,636.73
08 33 23 11-0199	EA		14' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,951.46	1,765.68
08 33 23 11-0200	EA		14' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,716.65	1,926.87
08 33 23 11-0201	EA		14' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,546.43	2,120.30
08 33 23 11-0202	EA		16' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	5,617.81	1,474.43
08 33 23 11-0203	EA		16' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,224.37	1,538.91
08 33 23 11-0204	EA		16' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,806.81	1,603.38
08 33 23 11-0205	EA		16' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,471.16	1,700.09
08 33 23 11-0206	EA		16' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,248.14	1,829.04
08 33 23 11-0207	EA		16' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,065.24	1,958.00
08 33 23 11-0208	EA		16' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,914.69	2,119.19
08 33 23 11-0209	EA		16' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,787.18	2,312.61
08 33 23 11-0210	EA		18' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,282.13	1,658.74
08 33 23 11-0211	EA		18' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	6,930.16	1,723.21
08 33 23 11-0212	EA		18' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,703.37	1,819.92
08 33 23 11-0213	EA		18' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,530.65	1,948.88
08 33 23 11-0214	EA		18' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,430.97	2,110.07
08 33 23 11-0215	EA		18' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,390.41	2,303.50
08 33 23 11-0216	EA		18' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,412.99	2,529.16
08 33 23 11-0217	EA		18' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,505.39	2,787.06
08 33 23 11-0218	EA		20' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,181.10	1,907.56
08 33 23 11-0219	EA		20' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	7,841.16	1,972.03
08 33 23 11-0220	EA		20' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,521.55	2,068.74
08 33 23 11-0221	EA		20' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,703.89	2,197.69
08 33 23 11-0222	EA		20' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,676.44	2,358.88
08 33 23 11-0223	EA		20' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,737.55	2,552.30
08 33 23 11-0224	EA		20' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,820.31	2,777.98
08 33 23 11-0225	EA		20' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	13,995.68	3,035.88
08 33 23 11-0226	EA		22' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	8,480.22	2,258.16
08 33 23 11-0227	EA		22' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,353.24	2,354.88
08 33 23 11-0228	EA		22' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	10,550.59	2,565.53



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				08 33 23 11-0229 EA 22' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,502.54	2,662.24
				08 33 23 11-0230 EA 22' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,517.66	2,791.19
				08 33 23 11-0231 EA 22' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	13,542.13	2,920.14
				08 33 23 11-0232 EA 22' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	14,580.24	3,081.33
				08 33 23 11-0233 EA 22' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	15,689.48	3,274.75
				08 33 23 11-0234 EA 24' x 10', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,345.29	2,483.96
				08 33 23 11-0235 EA 24' x 12', 0.05" Aluminum Overhead Coiling Door, Chain Lift	9,882.27	2,548.44
				08 33 23 11-0236 EA 24' x 14', 0.05" Aluminum Overhead Coiling Door, Chain Lift	11,137.69	2,612.92
				08 33 23 11-0237 EA 24' x 16', 0.05" Aluminum Overhead Coiling Door, Chain Lift	12,199.34	2,709.63
				08 33 23 11-0238 EA 24' x 18', 0.05" Aluminum Overhead Coiling Door, Chain Lift	13,270.63	2,838.58
				08 33 23 11-0239 EA 24' x 20', 0.05" Aluminum Overhead Coiling Door, Chain Lift	14,341.94	2,967.53
				08 33 23 11-0240 EA 24' x 22', 0.05" Aluminum Overhead Coiling Door, Chain Lift	15,616.82	3,128.72
				08 33 23 11-0241 EA 24' x 24', 0.05" Aluminum Overhead Coiling Door, Chain Lift	16,996.36	3,322.15
08 33 23 11-0242				Overhead Coiling Door Accessories (08 33 23 11)		
			LF	Bottom Of Door, Weather Strip Seal For Coiling Doors, Astragal Only	4.73	1.46
			LF	Top Of Door (Lintel), Weather Strip Seal For Coiling Doors	28.11	1.76
			LF	Side Of Door (Guides), Weather Strip Seal For Coiling Doors	26.83	1.76
			EA	Cylinder Lock For Coiling Doors	259.38	73.20
			EA	Up To 12' Height, 1/2 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	1,567.14	234.25
				Note: Includes three button inside station controls and mounting hardware.		
			EA	Up To 12' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	1,959.03	234.25
				Note: Includes three button inside station controls and mounting hardware.		
			EA	>12' To 18' Height, 1/2 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	1,851.09	263.53
				Note: Includes three button inside station controls and mounting hardware.		
			EA	>12' To 18' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	2,172.85	263.53
				Note: Includes three button inside station controls and mounting hardware.		
			EA	>18' To 24' Height, 3/4 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	2,370.19	292.81
				Note: Includes motor, supports, push button operator, stationary electronic eye, signal wiring from eye to motor and motor to operator.		
			EA	>18' To 24' Height, 1 HP Motorized Jackshaft Operator For Coiling Doors And Grilles	2,565.38	292.81
				Note: Includes motor, supports, push button operator, stationary electronic eye, signal wiring from eye to motor and motor to operator.		
			LF	Safety Edge Bottom Bar Obstruction Detection Device, Electric For Coiling Doors And Grilles	109.61	
			EA	Remote Transmitter Kit For Coiling Door Operators	350.44	117.12
08 33 23 11-0255				Removal And Reinstallation Of Roll-Up Door And Support (08 33 23 11)		
				Note: Includes storage, cleaning and supply materials.		
			SF	Removal And Reinstallation Of Metal Roll-up Door And Supports	25.14	
08 33 23 13				Overhead Rapid Coiling Doors (08 33 23)		
				Note: Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0874 for forklift.		
08 33 23 13-0001				32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13)		
				Note: Door panel is 32 ounce vinyl. Side frames are fully bolted together, anodized aluminum construction with weather seal. Bottom bar releases in either direction when impacted, without damage to door. Manual drive system.		
08 33 23 13-0002				32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0001)		
08 33 23 13-0003				5' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
			EA	5' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	3,643.15	428.67
			EA	5' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	3,838.68	448.58
			EA	5' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,032.99	468.50
			EA	5' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,226.11	488.41
			EA	5' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,421.63	508.32
			EA	5' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,615.95	528.23
08 33 23 13-0010				6' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
			EA	6' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	3,838.68	448.58
			EA	6' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,032.99	468.50
			EA	6' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,226.11	488.41
			EA	6' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,421.63	508.32
			EA	6' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,615.95	528.23
			EA	6' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,810.28	548.14
08 33 23 13-0017				7' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
			EA	7' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,032.99	468.50
			EA	7' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,226.11	488.41
			EA	7' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,421.63	508.32
			EA	7' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,615.95	528.23

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0022 EA 7' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,810.28	548.14
08 33 23 13-0023 EA 7' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,005.82	568.05
08 33 23 13-0024 8' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
08 33 23 13-0025 EA 8' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,226.11	488.41
08 33 23 13-0026 EA 8' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,421.63	508.32
08 33 23 13-0027 EA 8' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,615.95	528.23
08 33 23 13-0028 EA 8' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,810.28	548.14
08 33 23 13-0029 EA 8' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	5,005.82	568.05
08 33 23 13-0030 EA 8' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,198.93	587.96
08 33 23 13-0031 9' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
08 33 23 13-0032 EA 9' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,421.63	508.32
08 33 23 13-0033 EA 9' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,615.95	528.23
08 33 23 13-0034 EA 9' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	4,810.28	548.14
08 33 23 13-0035 EA 9' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	5,005.82	568.05
08 33 23 13-0036 EA 9' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®)	5,198.93	587.96
08 33 23 13-0037 EA 9' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,394.45	607.87
08 33 23 13-0038 10' Wide, 32 Ounce Vinyl Panels, Manually Operated Rolling Doors (Rytec® Bantam®) (08 33 23 13-0002)		
08 33 23 13-0039 EA 10' x 5', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	4,615.95	528.23
08 33 23 13-0040 EA 10' x 6', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	4,810.28	548.14
08 33 23 13-0041 EA 10' x 7', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,005.82	568.05
08 33 23 13-0042 EA 10' x 8', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,198.93	587.96
08 33 23 13-0043 EA 10' x 9', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,394.45	607.87
08 33 23 13-0044 EA 10' x 10', 32 Ounce Vinyl Panels, Manually Operated Rolling Door (Rytec® Bantam®).....	5,588.77	627.78
08 33 23 13-0045 Rytec® Bantam® Door Options (08 33 23 13-0001)		
08 33 23 13-0046 SF Upgrade To 2-Ply Rilon Panel Material For Rytec® Bantam® High-Speed Rolling Doors	7.54	
08 33 23 13-0047 SF Upgrade To 3-Ply Rilon Panel Material For Rytec® Bantam® High-Speed Rolling Doors	16.60	
08 33 23 13-0048 LF 31" High Full Vision Panel For Rytec® Bantam® High-Speed Rolling Doors	24.14	
Note: Multiply linear foot price x width of door.		
08 33 23 13-0049 EA Two 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Bantam® High-Speed Rolling Doors	229.33	
08 33 23 13-0050 EA Roll Cover For Rytec® Bantam® High-Speed Rolling Doors.....	479.23	58.56
08 33 23 13-0051 EA Motor Cover For Rytec® Bantam® High-Speed Rolling Doors.....	479.23	58.56
08 33 23 13-0052 EA Motor Operator For Rytec® Bantam® High-Speed Rolling Doors	1,954.26	117.12
Note: Includes open/close/stop pushbutton, pneumatic reversing edge and coil cord.		
08 33 23 13-0053 EA Additional NEMA 4 Pushbutton Control For Rytec® Bantam® Motor Operator.....	274.03	58.56
Note: Includes open/close/stop control.		
08 33 23 13-0054 EA Auto Close Feature For Rytec® Bantam® Motor Operator.....	268.00	58.56
08 33 23 13-0055 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0055)		
Note: Rytec® PredaDoor® PD5500. Door panel is 2-ply multi-filament Rilon. Includes full width vision panel. Side frames are fully bolted together, anodized aluminum construction with weather seal. Bottom bar releases in either direction when impacted, without damage to door. Drive system is a 3 phase, variable-speed AC Drive with brake and absolute encoder. Opens at 50" per second and closes at 21" per second.		
08 33 23 13-0056 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0055)		
08 33 23 13-0057 6' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0058 EA 6' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,642.34	468.50
08 33 23 13-0059 EA 6' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,822.98	488.41
08 33 23 13-0060 EA 6' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,029.32	508.32
08 33 23 13-0061 EA 6' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,311.67	528.23
08 33 23 13-0062 EA 6' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,599.61	548.14
08 33 23 13-0063 EA 6' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,075.31	568.05
08 33 23 13-0064 EA 6' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,416.88	587.96
08 33 23 13-0065 7' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0066 EA 7' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	10,859.86	488.41
08 33 23 13-0067 EA 7' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,086.32	508.32
08 33 23 13-0068 EA 7' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,367.55	528.23
08 33 23 13-0069 EA 7' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,664.43	548.14
08 33 23 13-0070 EA 7' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,051.84	568.05
08 33 23 13-0071 EA 7' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,516.35	587.96
08 33 23 13-0072 EA 7' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,885.87	607.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0073				8' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0074	EA			8' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,122.09	508.32
08 33 23 13-0075	EA			8' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,402.19	528.23
08 33 23 13-0076	EA			8' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,710.25	548.14
08 33 23 13-0077	EA			8' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,108.83	568.05
08 33 23 13-0078	EA			8' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,469.41	587.96
08 33 23 13-0079	EA			8' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,974.16	607.87
08 33 23 13-0080	EA			8' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,390.61	627.78
08 33 23 13-0081				9' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0082	EA			9' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,439.07	528.23
08 33 23 13-0083	EA			9' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,744.90	548.14
08 33 23 13-0084	EA			9' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,143.48	568.05
08 33 23 13-0085	EA			9' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,515.23	587.96
08 33 23 13-0086	EA			9' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,904.86	607.87
08 33 23 13-0087	EA			9' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,309.03	627.78
08 33 23 13-0088	EA			9' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,751.19	647.69
08 33 23 13-0089				10' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0090	EA			10' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	11,773.95	548.14
08 33 23 13-0091	EA			10' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,180.36	568.05
08 33 23 13-0092	EA			10' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,548.76	587.96
08 33 23 13-0093	EA			10' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,941.75	607.87
08 33 23 13-0094	EA			10' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,376.08	627.78
08 33 23 13-0095	EA			10' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,474.02	647.69
08 33 23 13-0096	EA			10' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	14,203.41	667.60
08 33 23 13-0097				11' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0098	EA			11' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,201.60	568.05
08 33 23 13-0099	EA			11' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,578.94	587.96
08 33 23 13-0100	EA			11' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,976.39	607.87
08 33 23 13-0101	EA			11' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,411.85	627.78
08 33 23 13-0102	EA			11' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,702.01	647.69
08 33 23 13-0103	EA			11' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	14,263.76	667.60
08 33 23 13-0104	EA			11' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	14,726.05	687.51
08 33 23 13-0105				12' Wide, 2 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® PredaDoor®) (08 33 23 13-0056)		
08 33 23 13-0106	EA			12' x 6', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,588.99	587.96
08 33 23 13-0107	EA			12' x 7', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	12,996.51	607.87
08 33 23 13-0108	EA			12' x 8', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,439.79	627.78
08 33 23 13-0109	EA			12' x 9', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	13,740.01	647.69
08 33 23 13-0110	EA			12' x 10', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	14,130.76	667.60
08 33 23 13-0111	EA			12' x 11', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	14,777.46	687.51
08 33 23 13-0112	EA			12' x 12', 2 Ply Fabric Panel, High-Speed Rolling Door (Rytec® PredaDoor®).....	15,230.79	707.42
08 33 23 13-0113				Rytec® PredaDoor® Door Options (08 33 23 13-0055)		
08 33 23 13-0114	EA			Up To 10' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors.....	597.47	117.12
08 33 23 13-0115	EA			>10' To 15' Wide Doors, Roll And Motor Hood For Rytec® PredaDoor® High-Speed Rolling Doors.....	837.76	117.12
08 33 23 13-0116	SF			Upgrade To 3-Ply Rilon Panel Material For Rytec® PredaDoor® High-Speed Rolling Doors.....	9.05	
08 33 23 13-0117				3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0117)		
				Note: Rytec® Fast-Seal® FS1000. Door panel is heavy-duty 3-ply multi-filament Rilon. Independent opening and closing speeds up to 50" per second. Side frames are fully bolted together, reinforced with front and rear wind bar guides and full height vinyl weather seal on either side of the door panel. Counterbalance system consists of guided counterweights custom-sized to provide to provide proper balancing of each door system. The independent tension system maintains constant panel tensioning. The drive system is a 3 phase, variable speed AC drive motor with brake and absolute encoder. Bottom bar breaks away in either direction without damage to the bar, safety astragal, or side covers.		
08 33 23 13-0118				3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0117)		
08 33 23 13-0119				8' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)		

08 Openings**08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0120	EA	8' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	16,366.73	1,054.11	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0121	EA	8' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	17,098.15	1,083.98	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0122	EA	8' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	17,737.93	1,113.84	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0123	EA	8' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	18,424.65	1,143.71	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0124	EA	8' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	19,200.77	1,173.57	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0125	EA	8' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	19,617.02	1,203.44	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0126	EA	8' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	20,256.79	1,233.31	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0127	EA	8' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	20,830.42	1,265.37	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0128	EA	8' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	21,732.68	1,298.27	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0129	EA	8' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	22,466.47	1,332.02	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0130	EA	8' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	23,370.99	1,366.66	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,200.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	3,300.00		
08 33 23 13-0131		9' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>			
08 33 23 13-0132	EA	9' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	17,098.15	1,083.98	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,750.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	4,125.00		
08 33 23 13-0133	EA	9' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)	17,737.93	1,113.84	
		<i>For NEMA 4X Control Box, Add</i>	675.00		
		<i>For 2 Speed Motor, 60" Open, 30" Close, Add</i>	1,100.00		
		<i>For AC Variable Speed Motor And Controls, Add</i>	2,750.00		
		<i>For 304 Stainless Steel Side Frame Tower, Add</i>	2,750.00		
		<i>For 316 Stainless Steel Side Frame Tower, Add</i>	4,125.00		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23	13-0134	EA	9' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	18,424.65 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,143.71
08 33 23	13-0135	EA	9' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	19,200.77 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,173.57
08 33 23	13-0136	EA	9' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	19,617.02 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,203.44
08 33 23	13-0137	EA	9' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	20,256.79 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,233.31
08 33 23	13-0138	EA	9' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	21,076.50 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,263.17
08 33 23	13-0139	EA	9' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	21,732.68 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,298.27
08 33 23	13-0140	EA	9' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	22,466.47 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,332.02
08 33 23	13-0141	EA	9' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	23,370.99 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,366.66
08 33 23	13-0142	EA	9' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,445.10 675.00 1,100.00 2,750.00 2,750.00 4,125.00	1,402.19
08 33 23	13-0143		10' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23	13-0144	EA	10' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	17,737.93 675.00 1,100.00 2,750.00 3,300.00 4,950.00	1,113.84
08 33 23	13-0145	EA	10' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	18,424.65 675.00 1,100.00 2,750.00 3,300.00 4,950.00	1,143.71
08 33 23	13-0146	EA	10' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	19,200.77 675.00 1,100.00 2,750.00 3,300.00 4,950.00	1,173.57
08 33 23	13-0147	EA	10' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	19,617.02 675.00 1,100.00 2,750.00 3,300.00 4,950.00	1,203.44

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0148 EA 10' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	20,256.79	1,233.31
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0149 EA 10' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	21,076.50	1,263.17
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0150 EA 10' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	21,851.51	1,293.04
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0151 EA 10' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	22,465.17	1,331.38
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0152 EA 10' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	23,369.66	1,366.00
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0153 EA 10' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	24,443.74	1,401.51
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0154 EA 10' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	25,353.08	1,437.95
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,300.00	
For 316 Stainless Steel Side Frame Tower, Add	4,950.00	
08 33 23 13-0155 11' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)		
08 33 23 13-0156 EA 11' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	18,424.65	1,143.71
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	
08 33 23 13-0157 EA 11' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	19,200.77	1,173.57
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	
08 33 23 13-0158 EA 11' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	19,617.02	1,203.44
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	
08 33 23 13-0159 EA 11' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	20,256.79	1,233.31
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	
08 33 23 13-0160 EA 11' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	21,076.50	1,263.17
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	
08 33 23 13-0161 EA 11' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®).....	21,851.51	1,293.04
For NEMA 4X Control Box, Add	675.00	
For 2 Speed Motor, 60" Open, 30" Close, Add	1,100.00	
For AC Variable Speed Motor And Controls, Add	2,750.00	
For 304 Stainless Steel Side Frame Tower, Add	3,850.00	
For 316 Stainless Steel Side Frame Tower, Add	5,775.00	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23	13-0162	EA		11' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	22,715.92 675.00 1,100.00 2,750.00 3,850.00 5,775.00	1,322.90
08 33 23	13-0163	EA		11' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	23,366.47 675.00 1,100.00 2,750.00 3,850.00 5,775.00	1,364.40
08 33 23	13-0164	EA		11' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	24,440.46 675.00 1,100.00 2,750.00 3,850.00 5,775.00	1,399.87
08 33 23	13-0165	EA		11' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	25,349.71 675.00 1,100.00 2,750.00 3,850.00 5,775.00	1,436.27
08 33 23	13-0166	EA		11' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	26,426.23 675.00 1,100.00 2,750.00 3,850.00 5,775.00	1,473.60
08 33 23	13-0167			12' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23	13-0168	EA		12' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	19,200.77 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,173.57
08 33 23	13-0169	EA		12' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	19,617.02 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,203.44
08 33 23	13-0170	EA		12' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	20,256.79 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,233.31
08 33 23	13-0171	EA		12' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	21,076.50 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,263.17
08 33 23	13-0172	EA		12' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	21,851.51 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,293.04
08 33 23	13-0173	EA		12' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	22,715.92 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,322.90
08 33 23	13-0174	EA		12' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	23,342.28 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,352.77
08 33 23	13-0175	EA		12' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	24,435.55 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,397.41

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0176	EA	12' x 16'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	25,344.67 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,433.74
08 33 23 13-0177	EA	12' x 17'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	26,421.05 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,471.03
08 33 23 13-0178	EA	12' x 18'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	27,499.37 675.00 1,100.00 2,750.00 4,400.00 6,600.00	1,509.27
08 33 23 13-0179 13' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)					
08 33 23 13-0180	EA	13' x 8'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	20,077.48 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,203.44
08 33 23 13-0181	EA	13' x 9'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	20,890.48 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,233.31
08 33 23 13-0182	EA	13' x 10'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	21,662.13 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,263.17
08 33 23 13-0183	EA	13' x 11'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	22,555.61 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,293.04
08 33 23 13-0184	EA	13' x 12'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	23,445.72 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,322.90
08 33 23 13-0185	EA	13' x 13'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,111.20 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,352.77
08 33 23 13-0186	EA	13' x 14'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,621.33 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,382.64
08 33 23 13-0187	EA	13' x 15'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	25,407.04 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,430.53
08 33 23 13-0188	EA	13' x 16'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	26,484.47 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,467.72
08 33 23 13-0189	EA	13' x 17'	3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	27,567.45 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,505.89



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0190	EA			13' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	28,524.46 675.00 1,100.00 2,750.00 4,950.00 6,975.00	1,545.04
08 33 23 13-0191 14' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>						
08 33 23 13-0192	EA			14' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	20,890.48 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,233.31
08 33 23 13-0193	EA			14' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	21,662.13 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,263.17
08 33 23 13-0194	EA			14' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	22,555.61 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,293.04
08 33 23 13-0195	EA			14' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	23,445.72 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,322.90
08 33 23 13-0196	EA			14' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,111.20 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,352.77
08 33 23 13-0197	EA			14' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,621.33 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,382.64
08 33 23 13-0198	EA			14' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	25,370.63 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,412.50
08 33 23 13-0199	EA			14' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	26,476.18 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,463.58
08 33 23 13-0200	EA			14' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	27,558.93 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,501.63
08 33 23 13-0201	EA			14' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	28,515.74 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,540.67
08 33 23 13-0202	EA			14' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	30,571.75 675.00 1,100.00 2,750.00 5,480.00 7,370.00	1,580.73
08 33 23 13-0203 15' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>						
08 33 23 13-0204	EA			15' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	21,602.75 675.00 1,100.00 2,750.00	1,233.31

08 Openings**08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23	13-0205	EA	15' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	22,496.54 675.00 1,100.00 2,750.00	1,263.17
08 33 23	13-0206	EA	15' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	23,386.71 675.00 1,100.00 2,750.00	1,293.04
08 33 23	13-0207	EA	15' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	24,052.37 675.00 1,100.00 2,750.00	1,322.90
08 33 23	13-0208	EA	15' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	24,562.31 675.00 1,100.00 2,750.00	1,352.77
08 33 23	13-0209	EA	15' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	25,311.25 675.00 1,100.00 2,750.00	1,382.64
08 33 23	13-0210	EA	15' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	26,439.00 675.00 1,100.00 2,750.00	1,444.99
08 33 23	13-0211	EA	15' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	27,550.16 675.00 1,100.00 2,750.00	1,497.24
08 33 23	13-0212	EA	15' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	28,506.73 675.00 1,100.00 2,750.00	1,536.16
08 33 23	13-0213	EA	15' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	30,562.50 675.00 1,100.00 2,750.00	1,576.11
08 33 23	13-0214	EA	15' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	32,016.84 675.00 1,100.00 2,750.00	1,617.09
08 33 23	13-0215		16' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)		
08 33 23	13-0216	EA	16' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	22,551.58 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,290.69
08 33 23	13-0217	EA	16' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	23,444.52 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,321.95
08 33 23	13-0218	EA	16' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,112.97 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,353.20
08 33 23	13-0219	EA	16' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	24,625.69 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,384.46
08 33 23	13-0220	EA	16' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	25,377.41 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,415.71
08 33 23	13-0221	EA	16' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	26,442.96 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,446.97
08 33 23	13-0222	EA	16' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	27,512.13 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,478.22



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0223	EA			16' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	28,497.74 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,531.67
08 33 23 13-0224	EA			16' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	30,553.29 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,571.50
08 33 23 13-0225	EA			16' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	32,007.39 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,612.35
08 33 23 13-0226	EA			16' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	33,470.86 675.00 1,100.00 2,750.00 6,070.00 7,790.00	1,654.28
08 33 23 13-0227				17' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)		
08 33 23 13-0228	EA			17' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	23,361.72 675.00 1,100.00 2,750.00	1,320.38
08 33 23 13-0229	EA			17' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	24,111.26 675.00 1,100.00 2,750.00	1,352.35
08 33 23 13-0230	EA			17' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	25,014.09 675.00 1,100.00 2,750.00	1,384.33
08 33 23 13-0231	EA			17' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	26,003.82 675.00 1,100.00 2,750.00	1,416.30
08 33 23 13-0232	EA			17' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	26,913.90 675.00 1,100.00 2,750.00	1,448.28
08 33 23 13-0233	EA			17' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	28,257.29 675.00 1,100.00 2,750.00	1,480.25
08 33 23 13-0234	EA			17' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	29,552.40 675.00 1,100.00 2,750.00	1,512.23
08 33 23 13-0235	EA			17' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	30,544.10 675.00 1,100.00 2,750.00	1,566.91
08 33 23 13-0236	EA			17' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	31,997.96 675.00 1,100.00 2,750.00	1,607.64
08 33 23 13-0237	EA			17' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	33,461.19 675.00 1,100.00 2,750.00	1,649.44
08 33 23 13-0238	EA			17' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add	34,881.93 675.00 1,100.00 2,750.00	1,692.33
08 33 23 13-0239				18' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) (08 33 23 13-0118)		
08 33 23 13-0240	EA			18' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) For NEMA 4X Control Box, Add For 2 Speed Motor, 60" Open, 30" Close, Add For AC Variable Speed Motor And Controls, Add For 304 Stainless Steel Side Frame Tower, Add For 316 Stainless Steel Side Frame Tower, Add	24,342.20 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,350.75

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0241 EA 18' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	25,326.17 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,383.45
08 33 23 13-0242 EA 18' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	26,395.84 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,416.17
08 33 23 13-0243 EA 18' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	27,461.88 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,448.87
08 33 23 13-0244 EA 18' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	28,572.58 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,481.59
08 33 23 13-0245 EA 18' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	30,141.95 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,514.30
08 33 23 13-0246 EA 18' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	31,754.77 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,547.01
08 33 23 13-0247 EA 18' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	32,573.96 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,602.94
08 33 23 13-0248 EA 18' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	33,451.54 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,644.62
08 33 23 13-0249 EA 18' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	34,832.20 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,687.38
08 33 23 13-0250 EA 18' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i> <i>For 304 Stainless Steel Side Frame Tower, Add</i> <i>For 316 Stainless Steel Side Frame Tower, Add</i>	36,257.32 675.00 1,100.00 2,750.00 6,720.00 8,230.00	1,731.25
08 33 23 13-0251 19' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0252 EA 19' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	25,322.88 675.00 1,100.00 2,750.00	1,381.81
08 33 23 13-0253 EA 19' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	26,394.06 675.00 1,100.00 2,750.00	1,415.27
08 33 23 13-0254 EA 19' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	27,461.60 675.00 1,100.00 2,750.00	1,448.74
08 33 23 13-0255 EA 19' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	28,573.81 675.00 1,100.00 2,750.00	1,482.20
08 33 23 13-0256 EA 19' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®)..... <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	30,144.68 675.00 1,100.00 2,750.00	1,515.66



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0257	EA			19' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	31,759.01 675.00 1,100.00 2,750.00	1,549.13
08 33 23 13-0258	EA			19' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	32,533.26 675.00 1,100.00 2,750.00	1,582.59
08 33 23 13-0259	EA			19' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	33,441.92 675.00 1,100.00 2,750.00	1,639.81
08 33 23 13-0260	EA			19' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	34,822.33 675.00 1,100.00 2,750.00	1,682.44
08 33 23 13-0261	EA			19' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,247.20 675.00 1,100.00 2,750.00	1,726.19
08 33 23 13-0262	EA			19' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	37,674.34 675.00 1,100.00 2,750.00	1,771.07
08 33 23 13-0263				20' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0264	EA			20' x 8', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	26,390.70 675.00 1,100.00 2,750.00	1,413.59
08 33 23 13-0265	EA			20' x 9', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	27,459.78 675.00 1,100.00 2,750.00	1,447.82
08 33 23 13-0266	EA			20' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	28,573.53 675.00 1,100.00 2,750.00	1,482.06
08 33 23 13-0267	EA			20' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	30,145.94 675.00 1,100.00 2,750.00	1,516.29
08 33 23 13-0268	EA			20' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	31,761.81 675.00 1,100.00 2,750.00	1,550.52
08 33 23 13-0269	EA			20' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	32,537.59 675.00 1,100.00 2,750.00	1,584.75
08 33 23 13-0270	EA			20' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	33,400.28 675.00 1,100.00 2,750.00	1,618.99
08 33 23 13-0271	EA			20' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	34,812.49 675.00 1,100.00 2,750.00	1,677.52
08 33 23 13-0272	EA			20' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,237.11 675.00 1,100.00 2,750.00	1,721.14
08 33 23 13-0273	EA			20' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	37,663.98 675.00 1,100.00 2,750.00	1,765.89
08 33 23 13-0274	EA			20' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	38,924.21 675.00 1,100.00 2,750.00	1,811.80
08 33 23 13-0275				21' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0276	EA			21' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	32,843.35 675.00 1,100.00 2,750.00	1,516.14
08 33 23 13-0277	EA			21' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	34,417.33 675.00 1,100.00 2,750.00	1,551.16

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0278 EA 21' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,033.56 675.00 1,100.00 2,750.00	1,586.18
08 33 23 13-0279 EA 21' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,813.33 675.00 1,100.00 2,750.00	1,621.20
08 33 23 13-0280 EA 21' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	37,676.39 675.00 1,100.00 2,750.00	1,656.22
08 33 23 13-0281 EA 21' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	39,091.30 675.00 1,100.00 2,750.00	1,716.11
08 33 23 13-0282 EA 21' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	40,517.93 675.00 1,100.00 2,750.00	1,760.73
08 33 23 13-0283 EA 21' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	41,946.87 675.00 1,100.00 2,750.00	1,806.51
08 33 23 13-0284 EA 21' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	43,209.20 675.00 1,100.00 2,750.00	1,853.48
08 33 23 13-0285 22' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0286 EA 22' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	34,081.49 675.00 1,100.00 2,750.00	1,551.01
08 33 23 13-0287 EA 22' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	35,658.29 675.00 1,100.00 2,750.00	1,586.84
08 33 23 13-0288 EA 22' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	37,274.93 675.00 1,100.00 2,750.00	1,622.66
08 33 23 13-0289 EA 22' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	38,055.11 675.00 1,100.00 2,750.00	1,658.49
08 33 23 13-0290 EA 22' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	38,922.18 675.00 1,100.00 2,750.00	1,694.31
08 33 23 13-0291 EA 22' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	40,339.85 675.00 1,100.00 2,750.00	1,755.58
08 33 23 13-0292 EA 22' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	41,768.52 675.00 1,100.00 2,750.00	1,801.22
08 33 23 13-0293 EA 22' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	43,198.36 675.00 1,100.00 2,750.00	1,848.06
08 33 23 13-0294 EA 22' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	44,464.06 675.00 1,100.00 2,750.00	1,896.11
08 33 23 13-0295 23' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0296 EA 23' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	35,322.44 675.00 1,100.00 2,750.00	1,586.69
08 33 23 13-0297 EA 23' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,899.68 675.00 1,100.00 2,750.00	1,623.34
08 33 23 13-0298 EA 23' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	38,519.18 675.00 1,100.00 2,750.00	1,659.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0299 EA 23' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	39,301.00 675.00 1,100.00 2,750.00	1,696.64
08 33 23 13-0300 EA 23' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	40,168.52 675.00 1,100.00 2,750.00	1,733.29
08 33 23 13-0301 EA 23' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	41,590.21 675.00 1,100.00 2,750.00	1,795.96
08 33 23 13-0302 EA 23' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	43,019.77 675.00 1,100.00 2,750.00	1,842.66
08 33 23 13-0303 EA 23' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	44,452.97 675.00 1,100.00 2,750.00	1,890.56
08 33 23 13-0304 EA 23' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	45,720.90 675.00 1,100.00 2,750.00	1,939.71
08 33 23 13-0305 24' Wide, 3 Ply Fabric Panel, High-Speed Rolling Doors (Rytec® Fast-Seal®) <small>(08 33 23 13-0118)</small>		
08 33 23 13-0306 EA 24' x 10', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	36,563.83 675.00 1,100.00 2,750.00	1,623.19
08 33 23 13-0307 EA 24' x 11', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	38,142.76 675.00 1,100.00 2,750.00	1,660.67
08 33 23 13-0308 EA 24' x 12', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	39,765.14 675.00 1,100.00 2,750.00	1,698.17
08 33 23 13-0309 EA 24' x 13', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	40,548.66 675.00 1,100.00 2,750.00	1,735.66
08 33 23 13-0310 EA 24' x 14', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	41,416.65 675.00 1,100.00 2,750.00	1,773.15
08 33 23 13-0311 EA 24' x 15', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	42,840.02 675.00 1,100.00 2,750.00	1,837.26
08 33 23 13-0312 EA 24' x 16', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	44,272.94 675.00 1,100.00 2,750.00	1,885.03
08 33 23 13-0313 EA 24' x 17', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	45,709.55 675.00 1,100.00 2,750.00	1,934.05
08 33 23 13-0314 EA 24' x 18', 3 Ply Fabric Panel, High-Speed Rolling Door (Rytec® Fast-Seal®) <i>For NEMA 4X Control Box, Add</i> <i>For 2 Speed Motor, 60" Open, 30" Close, Add</i> <i>For AC Variable Speed Motor And Controls, Add</i>	46,977.31 675.00 1,100.00 2,750.00	1,984.33
08 33 23 13-0315 Rytec® Fast-Seal® Door Options <small>(08 33 23 13-0117)</small>		
08 33 23 13-0316 LF Strapped Windbar For Rytec® Fast-Seal® High-Speed Rolling Doors Note: Multiply linear foot price x width of door.	33.53	
08 33 23 13-0317 EA Up To 10' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	363.22	
08 33 23 13-0318 EA >10' To 15' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	603.51	
08 33 23 13-0319 EA >15' To 20' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	887.52	
08 33 23 13-0320 EA >20' To 24' Wide Doors, Roll And Motor Hood For Rytec® Fast-Seal® High-Speed Rolling Doors.....	1,327.73	
08 33 23 13-0321 EA One 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors.....	212.35	
08 33 23 13-0322 EA Two 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 90" wide.	419.11	
08 33 23 13-0323 EA Three 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 102" wide.	530.87	
08 33 23 13-0324 EA Four 17" x 17", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors..... Note: Door must be at least 136" wide.	838.21	

08 Openings**08 30 Specialty Doors and Frames****08 33 Coiling Doors and Grilles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0325	EA		One 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Window With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors	245.88	
08 33 23 13-0326	EA		Two 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors	486.16	
			Note: Door must be at least 108" wide.		
08 33 23 13-0327	EA		Three 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors	603.51	
			Note: Door must be at least 144" wide.		
08 33 23 13-0328	EA		Four 24" x 24", 2mm Thick, Replaceable Polyvinyl Chloride (PVC) Windows With Velcro For Rytec® Fast-Seal® High-Speed Rolling Doors	972.32	
			Note: Door must be at least 192" wide.		
08 33 23 13-0329	EA		Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 8' Or 10'	603.20	
			For 304 Stainless Steel, Add	96.51	
			For 316 Stainless Steel, Add	422.24	
08 33 23 13-0330	EA		Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 12' Or 14'	784.16	
			For 304 Stainless Steel, Add	125.47	
			For 316 Stainless Steel, Add	548.91	
08 33 23 13-0331	EA		Sloped Roll And Motor Cover For Interior Or Exterior Door Widths Of 16' Or 18'	1,025.44	
			For 304 Stainless Steel, Add	164.07	
			For 316 Stainless Steel, Add	717.81	
08 33 23 13-0332	EA		Through Wall Brake Release	124.91	
08 33 23 13-0333	EA		Explosion Proof Upgrade Package: Control Box, Motor, Rotary Limit Switch, Photo-eyes, Safety Bar, Push Buttons	17,311.84	
			For NEMA 12 Control Box Mounted Outside Explosion Proof Area, Deduct	-6,200.00	
08 33 23 13-0334			High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13)</small>		
			Note: Rytec® Powerhouse™. Door panel is styrene butadiene rubber (SBR) panel 1/4" thick, made of two 1/8" thick layers, 60 durometer; sandwiched with 1-ply, 110 lbs polyester cord center. Panel includes bonded SBR beveled segmented windlocks to allow the door panel to effectively release from the side frame in case of accidental impact. Vertical orange stripes for visual safety awareness. Side frames are structural columns consisting of 5 x 2 x 1/4" structural steel tubing, welded to a reinforced 0.22" thick steel "Z" mounting bracket and 0.18" thick steel hinged cover. Drive system is a 480 volt, 3-phase variable speed AC Drive motor with brake and absolute encoder. Opens at up to 60" per second and closes at 21" per second.		
08 33 23 13-0335			High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0334)</small>		
08 33 23 13-0336			8' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0337	EA		8' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....	21,420.58	1,054.11
08 33 23 13-0338	EA		8' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	21,622.74	1,083.98
08 33 23 13-0339	EA		8' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	21,966.13	1,113.84
08 33 23 13-0340	EA		8' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,309.52	1,143.71
08 33 23 13-0341	EA		8' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,654.11	1,173.57
08 33 23 13-0342	EA		8' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,997.49	1,203.44
08 33 23 13-0343	EA		8' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,198.44	1,233.31
08 33 23 13-0344	EA		8' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,547.43	1,265.38
08 33 23 13-0345	EA		8' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,180.53	1,298.27
08 33 23 13-0346	EA		8' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,390.48	1,332.02
08 33 23 13-0347	EA		8' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,885.81	1,366.66
08 33 23 13-0348			9' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0349	EA		9' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....	21,622.74	1,083.98
08 33 23 13-0350	EA		9' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	21,823.70	1,113.84
08 33 23 13-0351	EA		9' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,168.30	1,143.71
08 33 23 13-0352	EA		9' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,654.11	1,173.57
08 33 23 13-0353	EA		9' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,855.06	1,203.44
08 33 23 13-0354	EA		9' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,198.44	1,233.31
08 33 23 13-0355	EA		9' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,543.03	1,263.17
08 33 23 13-0356	EA		9' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,896.88	1,298.27
08 33 23 13-0357	EA		9' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,674.13	1,332.02
08 33 23 13-0358	EA		9' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,454.31	1,366.66
08 33 23 13-0359	EA		9' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,235.11	1,402.19
08 33 23 13-0360			10' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0361	EA		10' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™).....	22,675.86	1,113.84
08 33 23 13-0362	EA		10' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,878.03	1,143.71
08 33 23 13-0363	EA		10' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,221.41	1,173.57
08 33 23 13-0364	EA		10' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,707.22	1,203.44
08 33 23 13-0365	EA		10' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,050.60	1,233.31
08 33 23 13-0366	EA		10' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,395.18	1,263.17
08 33 23 13-0367	EA		10' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,738.58	1,293.04
08 33 23 13-0368	EA		10' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,241.33	1,331.37
08 33 23 13-0369	EA		10' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,877.86	1,366.00
08 33 23 13-0370	EA		10' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,801.04	1,401.50
08 33 23 13-0371	EA		10' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,584.87	1,437.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 33 23 13-0372	11' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0373	EA 11' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,735.60	1,143.71
08 33 23 13-0374	EA 11' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,078.98	1,173.57
08 33 23 13-0375	EA 11' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,423.57	1,203.44
08 33 23 13-0376	EA 11' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,909.38	1,233.31
08 33 23 13-0377	EA 11' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,252.76	1,263.17
08 33 23 13-0378	EA 11' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,596.15	1,293.04
08 33 23 13-0379	EA 11' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,366.81	1,322.90
08 33 23 13-0380	EA 11' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,300.74	1,364.39
08 33 23 13-0381	EA 11' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,223.85	1,399.87
08 33 23 13-0382	EA 11' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,148.81	1,436.27
08 33 23 13-0383	EA 11' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,933.22	1,473.60

08 33 23 13-0384	12' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0385	EA 12' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	22,937.76	1,173.57
08 33 23 13-0386	EA 12' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,281.14	1,203.44
08 33 23 13-0387	EA 12' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,624.52	1,233.31
08 33 23 13-0388	EA 12' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,110.33	1,263.17
08 33 23 13-0389	EA 12' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,596.15	1,293.04
08 33 23 13-0390	EA 12' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,508.03	1,322.90
08 33 23 13-0391	EA 12' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,419.92	1,352.77
08 33 23 13-0392	EA 12' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,361.37	1,397.41
08 33 23 13-0393	EA 12' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,427.40	1,433.75
08 33 23 13-0394	EA 12' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,354.12	1,471.02
08 33 23 13-0395	EA 12' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,282.77	1,509.27

08 33 23 13-0396	13' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0397	EA 13' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,281.14	1,203.44
08 33 23 13-0398	EA 13' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,483.30	1,233.31
08 33 23 13-0399	EA 13' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,826.68	1,263.17
08 33 23 13-0400	EA 13' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,454.92	1,293.04
08 33 23 13-0401	EA 13' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,508.03	1,322.90
08 33 23 13-0402	EA 13' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,562.35	1,352.77
08 33 23 13-0403	EA 13' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,474.24	1,382.64
08 33 23 13-0404	EA 13' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,563.42	1,430.53
08 33 23 13-0405	EA 13' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,632.39	1,467.72
08 33 23 13-0406	EA 13' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,702.09	1,505.89
08 33 23 13-0407	EA 13' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,632.55	1,545.04

08 33 23 13-0408	14' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0409	EA 14' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,483.30	1,233.31
08 33 23 13-0410	EA 14' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	23,684.25	1,263.17
08 33 23 13-0411	EA 14' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,170.07	1,293.04
08 33 23 13-0412	EA 14' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,081.96	1,322.90
08 33 23 13-0413	EA 14' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,419.92	1,352.77
08 33 23 13-0414	EA 14' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,474.24	1,382.64
08 33 23 13-0415	EA 14' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,669.78	1,412.50
08 33 23 13-0416	EA 14' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,765.30	1,463.58
08 33 23 13-0417	EA 14' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,836.00	1,501.64
08 33 23 13-0418	EA 14' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,907.47	1,540.67
08 33 23 13-0419	EA 14' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,124.59	1,580.73

08 33 23 13-0420	15' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0421	EA 15' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,392.18	1,261.67
08 33 23 13-0422	EA 15' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,736.95	1,292.23
08 33 23 13-0423	EA 15' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,224.12	1,322.77
08 33 23 13-0424	EA 15' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,852.55	1,353.33
08 33 23 13-0425	EA 15' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,334.31	1,383.89
08 33 23 13-0426	EA 15' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,531.22	1,414.43
08 33 23 13-0427	EA 15' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,728.14	1,445.00
08 33 23 13-0428	EA 15' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,827.24	1,497.24
08 33 23 13-0429	EA 15' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,040.89	1,536.16
08 33 23 13-0430	EA 15' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,256.57	1,576.12
08 33 23 13-0431	EA 15' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,474.34	1,617.09



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

08 33 23 13-0432	16' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0433	EA 16' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,591.45	1,290.69
08 33 23 13-0434	EA 16' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,080.04	1,321.95
08 33 23 13-0435	EA 16' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,568.63	1,353.20
08 33 23 13-0436	EA 16' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,766.95	1,384.45
08 33 23 13-0437	EA 16' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,391.35	1,415.71
08 33 23 13-0438	EA 16' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,590.88	1,446.97
08 33 23 13-0439	EA 16' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,789.21	1,478.22
08 33 23 13-0440	EA 16' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,031.90	1,531.67
08 33 23 13-0441	EA 16' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,247.35	1,571.50
08 33 23 13-0442	EA 16' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,464.88	1,612.36
08 33 23 13-0443	EA 16' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,826.97	1,654.28
08 33 23 13-0444	17' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0445	EA 17' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	24,935.66	1,320.38
08 33 23 13-0446	EA 17' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,283.26	1,352.35
08 33 23 13-0447	EA 17' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,483.02	1,384.33
08 33 23 13-0448	EA 17' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,682.78	1,416.30
08 33 23 13-0449	EA 17' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,308.62	1,448.28
08 33 23 13-0450	EA 17' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,650.81	1,480.25
08 33 23 13-0451	EA 17' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,850.58	1,512.22
08 33 23 13-0452	EA 17' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,238.17	1,566.91
08 33 23 13-0453	EA 17' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,455.46	1,607.64
08 33 23 13-0454	EA 17' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,817.30	1,649.45
08 33 23 13-0455	EA 17' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,181.31	1,692.33
08 33 23 13-0456	18' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0457	EA 18' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,280.05	1,350.75
08 33 23 13-0458	EA 18' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,629.13	1,383.45
08 33 23 13-0459	EA 18' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,256.43	1,416.17
08 33 23 13-0460	EA 18' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,600.10	1,448.87
08 33 23 13-0461	EA 18' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,227.41	1,481.59
08 33 23 13-0462	EA 18' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,571.07	1,514.29
08 33 23 13-0463	EA 18' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,057.15	1,547.01
08 33 23 13-0464	EA 18' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,446.05	1,602.94
08 33 23 13-0465	EA 18' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,807.64	1,644.62
08 33 23 13-0466	EA 18' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,171.40	1,687.38
08 33 23 13-0467	EA 18' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	38,537.39	1,731.25
08 33 23 13-0468	19' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0469	EA 19' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	25,909.50	1,381.80
08 33 23 13-0470	EA 19' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,402.49	1,415.28
08 33 23 13-0471	EA 19' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,173.74	1,448.74
08 33 23 13-0472	EA 19' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,518.90	1,482.20
08 33 23 13-0473	EA 19' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,290.15	1,515.67
08 33 23 13-0474	EA 19' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,635.32	1,549.13
08 33 23 13-0475	EA 19' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,121.70	1,582.59
08 33 23 13-0476	EA 19' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,514.38	1,639.81
08 33 23 13-0477	EA 19' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,019.12	1,682.44
08 33 23 13-0478	EA 19' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	38,384.83	1,726.19
08 33 23 13-0479	EA 19' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	39,895.26	1,771.08
08 33 23 13-0480	20' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0481	EA 20' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	26,825.22	1,413.59
08 33 23 13-0482	EA 20' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,319.77	1,447.82
08 33 23 13-0483	EA 20' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,950.12	1,482.06
08 33 23 13-0484	EA 20' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,439.26	1,516.28
08 33 23 13-0485	EA 20' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,212.02	1,550.52
08 33 23 13-0486	EA 20' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,699.96	1,584.75
08 33 23 13-0487	EA 20' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,189.08	1,618.99
08 33 23 13-0488	EA 20' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	36,725.62	1,677.53
08 33 23 13-0489	EA 20' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	38,233.51	1,721.15
08 33 23 13-0490	EA 20' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	39,742.47	1,765.88
08 33 23 13-0491	EA 20' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	41,253.76	1,811.81
08 33 23 13-0492	21' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) (08 33 23 13-0335)		
08 33 23 13-0493	EA 21' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,032.68	1,446.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0494 EA 21' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,380.96	1,481.12
08 33 23 13-0495 EA 21' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,729.23	1,516.14
08 33 23 13-0496 EA 21' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,361.15	1,551.16
08 33 23 13-0497 EA 21' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,135.50	1,586.18
08 33 23 13-0498 EA 21' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,767.43	1,621.20
08 33 23 13-0499 EA 21' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	36,256.93	1,656.22
08 33 23 13-0500 EA 21' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,938.60	1,716.11
08 33 23 13-0501 EA 21' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	39,448.50	1,760.73
08 33 23 13-0502 EA 21' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	40,959.51	1,806.51
08 33 23 13-0503 EA 21' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	42,615.34	1,853.47
08 33 23 13-0504 22' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0505 EA 22' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	27,382.84	1,479.37
08 33 23 13-0506 EA 22' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,590.30	1,515.20
08 33 23 13-0507 EA 22' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,651.13	1,551.01
08 33 23 13-0508 EA 22' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,284.66	1,586.84
08 33 23 13-0509 EA 22' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	34,201.85	1,622.67
08 33 23 13-0510 EA 22' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,835.39	1,658.50
08 33 23 13-0511 EA 22' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,327.71	1,694.31
08 33 23 13-0512 EA 22' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	39,012.12	1,755.58
08 33 23 13-0513 EA 22' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	40,665.30	1,801.22
08 33 23 13-0514 EA 22' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	42,320.85	1,848.06
08 33 23 13-0515 EA 22' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	43,978.83	1,896.11
08 33 23 13-0516 23' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0517 EA 23' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	28,445.49	1,513.39
08 33 23 13-0518 EA 23' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,512.16	1,550.05
08 33 23 13-0519 EA 23' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	31,432.21	1,586.69
08 33 23 13-0520 EA 23' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,209.81	1,623.34
08 33 23 13-0521 EA 23' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	35,128.66	1,659.99
08 33 23 13-0522 EA 23' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	36,763.84	1,696.63
08 33 23 13-0523 EA 23' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	38,541.45	1,733.29
08 33 23 13-0524 EA 23' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	40,228.69	1,795.96
08 33 23 13-0525 EA 23' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	41,883.97	1,842.65
08 33 23 13-0526 EA 23' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	43,684.11	1,890.56
08 33 23 13-0527 EA 23' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	45,344.30	1,939.72
08 33 23 13-0528 24' Wide, High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™) <small>(08 33 23 13-0335)</small>		
08 33 23 13-0529 EA 24' x 8', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	29,367.27	1,548.20
08 33 23 13-0530 EA 24' x 9', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	30,151.98	1,585.69
08 33 23 13-0531 EA 24' x 10', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	32,357.35	1,623.19
08 33 23 13-0532 EA 24' x 11', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	33,994.22	1,660.67
08 33 23 13-0533 EA 24' x 12', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	36,057.17	1,698.17
08 33 23 13-0534 EA 24' x 13', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	37,836.48	1,735.65
08 33 23 13-0535 EA 24' x 14', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	39,614.57	1,773.15
08 33 23 13-0536 EA 24' x 15', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	41,447.11	1,837.26
08 33 23 13-0537 EA 24' x 16', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	43,104.54	1,885.03
08 33 23 13-0538 EA 24' x 17', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	44,906.88	1,934.04
08 33 23 13-0539 EA 24' x 18', High Performance Rubber, High-Speed Rolling Door (Rytec® Powerhouse™)	46,711.76	1,984.34
08 33 23 13-0540 Rytec® Powerhouse™ Door Options <small>(08 33 23 13-0334)</small>		
08 33 23 13-0541 EA Up To 8' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors.....	1,846.75	
08 33 23 13-0542 EA 9' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	1,882.96	
08 33 23 13-0543 EA 10' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	1,919.17	
08 33 23 13-0544 EA 11' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	1,955.38	
08 33 23 13-0545 EA 12' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	1,991.59	
08 33 23 13-0546 EA 13' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,027.80	
08 33 23 13-0547 EA 14' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,064.01	
08 33 23 13-0548 EA 15' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,100.22	
08 33 23 13-0549 EA 16' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,136.43	
08 33 23 13-0550 EA 17' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,172.64	
08 33 23 13-0551 EA 18' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,208.85	
08 33 23 13-0552 EA 19' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,245.06	
08 33 23 13-0553 EA 20' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,281.27	
08 33 23 13-0554 EA 21' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,317.48	
08 33 23 13-0555 EA 22' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,353.70	
08 33 23 13-0556 EA 23' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,389.91	
08 33 23 13-0557 EA 24' Wide Doors, Sloped Roll And Motor Hood For Rytec® Powerhouse™ High-Speed Rolling Doors	2,426.12	
08 33 23 13-0558 EA 11" x 20" Window For Rytec® Powerhouse™ High-Speed Rolling Doors.....	422.46	
08 33 23 13-0559 EA 208-230 Volt Application For Rytec® Powerhouse™ Door.....	1,038.04	
Note: Includes System 4 Controller In NEMA 4 Enclosure		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

08 33 23 13-0560	Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®) <small>(08 33 23 13)</small>		
	Note: Door panels are double-walled aluminum slats that are 6" high x 1-3/16" thick. Width is variable. Side frames are galvanized steel with full height weather seal on both sides. There are extension springs in each column for counterbalance. The drive system is a 2 HP, 208,230/460 Volt, three-phase motor with variable speed AC drive. Opening and closing speeds up to 60" per second.		
08 33 23 13-0561	Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral®) <small>(08 33 23 13-0560)</small>		
08 33 23 13-0562	8' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
08 33 23 13-0563	EA 8' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,235.35	1,405.48
08 33 23 13-0564	EA 8' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,899.70	1,435.34
08 33 23 13-0565	EA 8' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,564.07	1,465.21
08 33 23 13-0566	EA 8' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,229.55	1,495.07
08 33 23 13-0567	EA 8' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,893.91	1,524.94
08 33 23 13-0568	EA 8' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,558.27	1,554.81
08 33 23 13-0569	EA 8' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	28,430.77	1,584.67
08 33 23 13-0570	EA 8' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,093.20	1,616.37
08 33 23 13-0571	EA 8' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,756.54	1,648.69
08 33 23 13-0572	EA 8' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	30,421.18	1,681.66
08 33 23 13-0573	EA 8' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,087.12	1,715.30
08 33 23 13-0574	9' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
08 33 23 13-0575	EA 9' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	23,899.70	1,435.34
08 33 23 13-0576	EA 9' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,564.07	1,465.21
08 33 23 13-0577	EA 9' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,229.55	1,495.07
08 33 23 13-0578	EA 9' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,893.91	1,524.94
08 33 23 13-0579	EA 9' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,558.27	1,554.81
08 33 23 13-0580	EA 9' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,222.63	1,584.67
08 33 23 13-0581	EA 9' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,093.20	1,614.54
08 33 23 13-0582	EA 9' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,748.88	1,646.83
08 33 23 13-0583	EA 9' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	30,424.61	1,679.77
08 33 23 13-0584	EA 9' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,090.48	1,713.37
08 33 23 13-0585	EA 9' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,757.71	1,747.62
08 33 23 13-0586	10' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
08 33 23 13-0587	EA 10' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	24,564.07	1,465.21
08 33 23 13-0588	EA 10' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,229.55	1,495.07
08 33 23 13-0589	EA 10' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,893.91	1,524.94
08 33 23 13-0590	EA 10' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,558.27	1,554.81
08 33 23 13-0591	EA 10' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,222.63	1,584.67
08 33 23 13-0592	EA 10' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,887.00	1,614.54
08 33 23 13-0593	EA 10' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,759.50	1,644.40
08 33 23 13-0594	EA 10' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	30,424.50	1,677.29
08 33 23 13-0595	EA 10' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,090.27	1,710.84
08 33 23 13-0596	EA 10' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,757.38	1,745.07
08 33 23 13-0597	EA 10' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,425.88	1,779.95
08 33 23 13-0598	11' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
08 33 23 13-0599	EA 11' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,229.55	1,495.07
08 33 23 13-0600	EA 11' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,893.91	1,524.94
08 33 23 13-0601	EA 11' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,558.27	1,554.81
08 33 23 13-0602	EA 11' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,222.63	1,584.67
08 33 23 13-0603	EA 11' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,887.00	1,614.54
08 33 23 13-0604	EA 11' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	28,551.36	1,644.40
08 33 23 13-0605	EA 11' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	30,422.74	1,674.27
08 33 23 13-0606	EA 11' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,090.15	1,707.76
08 33 23 13-0607	EA 11' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,757.13	1,741.91
08 33 23 13-0608	EA 11' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,425.49	1,776.75
08 33 23 13-0609	EA 11' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,095.25	1,812.29
08 33 23 13-0610	12' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
08 33 23 13-0611	EA 12' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	25,893.91	1,524.94
08 33 23 13-0612	EA 12' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	26,558.27	1,554.81
08 33 23 13-0613	EA 12' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,222.63	1,584.67
08 33 23 13-0614	EA 12' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	27,887.00	1,614.54
08 33 23 13-0615	EA 12' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	28,551.36	1,644.40
08 33 23 13-0616	EA 12' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	29,215.72	1,674.27
08 33 23 13-0617	EA 12' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,088.22	1,704.14
08 33 23 13-0618	EA 12' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,755.78	1,738.22
08 33 23 13-0619	EA 12' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,424.00	1,772.99



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				08 33 23 13-0620 EA 12' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,093.60	1,808.45
				08 33 23 13-0621 EA 12' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,765.84	1,844.62
08 33 23 13-0622				13' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
				08 33 23 13-0623 EA 13' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	26,558.27	1,554.81
				08 33 23 13-0624 EA 13' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	27,222.63	1,584.67
				08 33 23 13-0625 EA 13' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	27,887.00	1,614.54
				08 33 23 13-0626 EA 13' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	28,551.36	1,644.40
				08 33 23 13-0627 EA 13' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,215.72	1,674.27
				08 33 23 13-0628 EA 13' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,880.08	1,704.14
				08 33 23 13-0629 EA 13' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,752.60	1,734.00
				08 33 23 13-0630 EA 13' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	32,421.43	1,768.69
				08 33 23 13-0631 EA 13' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,090.86	1,804.05
				08 33 23 13-0632 EA 13' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,761.72	1,840.14
				08 33 23 13-0633 EA 13' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	34,433.99	1,876.94
08 33 23 13-0634				14' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
				08 33 23 13-0635 EA 14' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	28,430.77	1,584.67
				08 33 23 13-0636 EA 14' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,095.14	1,614.54
				08 33 23 13-0637 EA 14' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,759.50	1,644.40
				08 33 23 13-0638 EA 14' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	30,422.74	1,674.27
				08 33 23 13-0639 EA 14' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,088.22	1,704.14
				08 33 23 13-0640 EA 14' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,752.60	1,734.00
				08 33 23 13-0641 EA 14' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	32,411.37	1,763.87
				08 33 23 13-0642 EA 14' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,081.05	1,799.15
				08 33 23 13-0643 EA 14' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,751.69	1,835.13
				08 33 23 13-0644 EA 14' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	34,423.78	1,871.84
				08 33 23 13-0645 EA 14' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,097.35	1,909.27
08 33 23 13-0646				15' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
				08 33 23 13-0647 EA 15' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,093.20	1,616.37
				08 33 23 13-0648 EA 15' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,760.06	1,646.83
				08 33 23 13-0649 EA 15' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	30,424.50	1,677.29
				08 33 23 13-0650 EA 15' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,090.15	1,707.76
				08 33 23 13-0651 EA 15' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,755.78	1,738.22
				08 33 23 13-0652 EA 15' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	32,421.43	1,768.69
				08 33 23 13-0653 EA 15' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,081.05	1,799.15
				08 33 23 13-0654 EA 15' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,751.69	1,835.13
				08 33 23 13-0655 EA 15' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	34,423.78	1,871.84
				08 33 23 13-0656 EA 15' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,097.35	1,909.27
				08 33 23 13-0657 EA 15' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,772.39	1,947.46
08 33 23 13-0658				16' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
				08 33 23 13-0659 EA 16' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	29,756.54	1,648.69
				08 33 23 13-0660 EA 16' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	30,424.61	1,679.77
				08 33 23 13-0661 EA 16' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,090.27	1,710.84
				08 33 23 13-0662 EA 16' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,757.13	1,741.91
				08 33 23 13-0663 EA 16' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	32,424.00	1,772.99
				08 33 23 13-0664 EA 16' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,090.86	1,804.05
				08 33 23 13-0665 EA 16' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,751.69	1,835.13
				08 33 23 13-0666 EA 16' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	34,423.78	1,871.84
				08 33 23 13-0667 EA 16' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,097.35	1,909.27
				08 33 23 13-0668 EA 16' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,772.39	1,947.46
				08 33 23 13-0669 EA 16' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	36,450.18	1,986.41
08 33 23 13-0670				17' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0561)</small>		
				08 33 23 13-0671 EA 17' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	30,421.18	1,681.66
				08 33 23 13-0672 EA 17' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,090.48	1,713.37
				08 33 23 13-0673 EA 17' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	31,757.38	1,745.07
				08 33 23 13-0674 EA 17' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	32,425.49	1,776.75
				08 33 23 13-0675 EA 17' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,093.60	1,808.45
				08 33 23 13-0676 EA 17' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	33,761.72	1,840.14
				08 33 23 13-0677 EA 17' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	34,423.78	1,871.84
				08 33 23 13-0678 EA 17' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,097.35	1,909.27
				08 33 23 13-0679 EA 17' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	35,772.39	1,947.46
				08 33 23 13-0680 EA 17' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	36,450.18	1,986.41
				08 33 23 13-0681 EA 17' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®).....	37,128.32	2,026.13



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

08 33 23 13-0682	18' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0681)</small>		
08 33 23 13-0683	EA 18' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,221.10	1,715.30
08 33 23 13-0684	EA 18' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	31,890.48	1,747.62
08 33 23 13-0685	EA 18' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,559.86	1,779.95
08 33 23 13-0686	EA 18' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,228.02	1,812.29
08 33 23 13-0687	EA 18' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,898.61	1,844.62
08 33 23 13-0688	EA 18' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	34,568.77	1,876.94
08 33 23 13-0689	EA 18' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	35,231.33	1,909.27
08 33 23 13-0690	EA 18' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	35,906.37	1,947.46
08 33 23 13-0691	EA 18' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	36,582.95	1,986.41
08 33 23 13-0692	EA 18' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	37,261.10	2,026.13
08 33 23 13-0693	EA 18' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	37,940.82	2,066.66
08 33 23 13-0694	19' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0691)</small>		
08 33 23 13-0695	EA 19' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,087.55	1,749.61
08 33 23 13-0696	EA 19' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	32,759.43	1,782.59
08 33 23 13-0697	EA 19' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,428.90	1,815.56
08 33 23 13-0698	EA 19' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	34,099.57	1,848.52
08 33 23 13-0699	EA 19' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	34,770.24	1,881.51
08 33 23 13-0700	EA 19' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	35,440.90	1,914.48
08 33 23 13-0701	EA 19' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	36,105.53	1,947.46
08 33 23 13-0702	EA 19' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	36,782.11	1,986.41
08 33 23 13-0703	EA 19' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	37,460.26	2,026.13
08 33 23 13-0704	EA 19' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	38,139.98	2,066.66
08 33 23 13-0705	EA 19' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	38,822.55	2,107.99
08 33 23 13-0706	20' Wide, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®) <small>(08 33 23 13-0691)</small>		
08 33 23 13-0707	EA 20' x 8', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,155.29	1,784.96
08 33 23 13-0708	EA 20' x 9', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	33,829.15	1,817.75
08 33 23 13-0709	EA 20' x 10', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	34,499.42	1,851.72
08 33 23 13-0710	EA 20' x 11', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	35,172.07	1,885.68
08 33 23 13-0711	EA 20' x 12', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	35,843.53	1,919.64
08 33 23 13-0712	EA 20' x 13', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	36,515.02	1,952.44
08 33 23 13-0713	EA 20' x 14', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	37,181.64	1,986.41
08 33 23 13-0714	EA 20' x 15', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	37,859.96	2,026.23
08 33 23 13-0715	EA 20' x 16', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	38,539.46	2,067.22
08 33 23 13-0716	EA 20' x 17', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	39,221.31	2,108.21
08 33 23 13-0717	EA 20' x 18', Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral®)	39,904.31	2,150.38
08 33 23 13-0718	Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) <small>(08 33 23 13-0690)</small>		
08 33 23 13-0719	8' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) <small>(08 33 23 13-0718)</small>		
08 33 23 13-0720	EA 8' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	23,032.64	936.98
08 33 23 13-0721	EA 8' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	23,538.50	956.89
08 33 23 13-0722	EA 8' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,044.37	976.80
08 33 23 13-0723	EA 8' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,548.01	996.71
08 33 23 13-0724	EA 8' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,053.87	1,016.62
08 33 23 13-0725	EA 8' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,559.74	1,036.53
08 33 23 13-0726	EA 8' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	30,723.82	1,056.44
08 33 23 13-0727	9' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) <small>(08 33 23 13-0718)</small>		
08 33 23 13-0728	EA 9' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	23,538.50	956.89
08 33 23 13-0729	EA 9' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,044.37	976.80
08 33 23 13-0730	EA 9' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,548.01	996.71
08 33 23 13-0731	EA 9' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,053.87	1,016.62
08 33 23 13-0732	EA 9' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,559.74	1,036.53
08 33 23 13-0733	EA 9' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	26,065.60	1,056.44
08 33 23 13-0734	EA 9' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	31,229.68	1,076.36
08 33 23 13-0735	10' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) <small>(08 33 23 13-0718)</small>		
08 33 23 13-0736	EA 10' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,044.37	976.80
08 33 23 13-0737	EA 10' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	24,548.01	996.71
08 33 23 13-0738	EA 10' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,053.87	1,016.62
08 33 23 13-0739	EA 10' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	25,559.74	1,036.53
08 33 23 13-0740	EA 10' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	26,065.60	1,056.44
08 33 23 13-0741	EA 10' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®)	26,571.47	1,076.36



				MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0742	EA			10' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	31,735.55	1,096.27
08 33 23 13-0743				11' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)		
08 33 23 13-0744	EA			11' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	24,548.01	996.71
08 33 23 13-0745	EA			11' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	25,053.87	1,016.62
08 33 23 13-0746	EA			11' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	25,559.74	1,036.53
08 33 23 13-0747	EA			11' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,065.60	1,056.44
08 33 23 13-0748	EA			11' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,571.47	1,076.36
08 33 23 13-0749	EA			11' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	27,077.33	1,096.27
08 33 23 13-0750	EA			11' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	32,239.18	1,116.18
08 33 23 13-0751				12' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)		
08 33 23 13-0752	EA			12' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	25,053.87	1,016.62
08 33 23 13-0753	EA			12' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	25,559.74	1,036.53
08 33 23 13-0754	EA			12' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,065.60	1,056.44
08 33 23 13-0755	EA			12' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,571.47	1,076.36
08 33 23 13-0756	EA			12' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	27,077.33	1,096.27
08 33 23 13-0757	EA			12' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	27,583.20	1,116.18
08 33 23 13-0758	EA			12' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	32,745.05	1,136.10
08 33 23 13-0759				13' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)		
08 33 23 13-0760	EA			13' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	25,559.74	1,036.53
08 33 23 13-0761	EA			13' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,065.60	1,056.44
08 33 23 13-0762	EA			13' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	26,571.47	1,076.36
08 33 23 13-0763	EA			13' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	27,077.33	1,096.27
08 33 23 13-0764	EA			13' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	27,583.20	1,116.18
08 33 23 13-0765	EA			13' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	28,089.07	1,136.10
08 33 23 13-0766	EA			13' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	33,250.92	1,156.01
08 33 23 13-0767				14' Wide, Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral LH®) (08 33 23 13-0718)		
08 33 23 13-0768	EA			14' x 8', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	30,723.82	1,056.44
08 33 23 13-0769	EA			14' x 9', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	31,229.68	1,076.36
08 33 23 13-0770	EA			14' x 10', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	31,735.55	1,096.27
08 33 23 13-0771	EA			14' x 11', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	32,239.18	1,116.18
08 33 23 13-0772	EA			14' x 12', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	32,745.05	1,136.10
08 33 23 13-0773	EA			14' x 13', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	33,250.92	1,156.01
08 33 23 13-0774	EA			14' x 14', Low-Headroom, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral LH®).....	33,756.78	1,175.92
08 33 23 13-0775				Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0560)		
08 33 23 13-0776				8' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0777	EA			8' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	21,435.57	936.98
08 33 23 13-0778	EA			8' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	21,941.43	956.89
08 33 23 13-0779	EA			8' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,447.30	976.80
08 33 23 13-0780	EA			8' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,952.06	996.71
08 33 23 13-0781	EA			8' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,457.92	1,016.62
08 33 23 13-0782	EA			8' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,962.78	1,036.53
08 33 23 13-0783	EA			8' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	27,334.51	1,036.53
08 33 23 13-0784				9' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0785	EA			9' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	21,941.43	956.89
08 33 23 13-0786	EA			9' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,447.30	976.80
08 33 23 13-0787	EA			9' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,952.06	996.71
08 33 23 13-0788	EA			9' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,457.92	1,016.62
08 33 23 13-0789	EA			9' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,962.78	1,036.53
08 33 23 13-0790	EA			9' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	24,467.64	1,056.44
08 33 23 13-0791	EA			9' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	26,166.19	1,056.44
08 33 23 13-0792				10' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0793	EA			10' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,447.30	976.80
08 33 23 13-0794	EA			10' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	22,952.06	996.71
08 33 23 13-0795	EA			10' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,457.92	1,016.62
08 33 23 13-0796	EA			10' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®).....	23,962.78	1,036.53

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0797 EA 10' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,468.53	1,056.44
08 33 23 13-0798 EA 10' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,963.86	1,071.09
08 33 23 13-0799 EA 10' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	26,810.64	1,076.36
08 33 23 13-0800 11' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0801 EA 11' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	22,952.06	996.71
08 33 23 13-0802 EA 11' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	23,457.92	1,016.62
08 33 23 13-0803 EA 11' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	23,962.67	1,036.53
08 33 23 13-0804 EA 11' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,468.53	1,056.44
08 33 23 13-0805 EA 11' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,974.40	1,076.36
08 33 23 13-0806 EA 11' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	25,469.72	1,091.00
08 33 23 13-0807 EA 11' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	27,455.09	1,096.27
08 33 23 13-0808 12' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0809 EA 12' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	23,457.92	1,016.62
08 33 23 13-0810 EA 12' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	23,962.67	1,036.53
08 33 23 13-0811 EA 12' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,468.53	1,056.44
08 33 23 13-0812 EA 12' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,974.40	1,076.36
08 33 23 13-0813 EA 12' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	25,480.26	1,096.27
08 33 23 13-0814 EA 12' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	25,973.25	1,109.74
08 33 23 13-0815 EA 12' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	28,099.54	1,116.18
08 33 23 13-0816 13' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0817 EA 13' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	23,962.67	1,036.53
08 33 23 13-0818 EA 13' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,468.53	1,056.44
08 33 23 13-0819 EA 13' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	24,974.40	1,076.36
08 33 23 13-0820 EA 13' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	25,480.26	1,096.27
08 33 23 13-0821 EA 13' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	25,986.13	1,116.18
08 33 23 13-0822 EA 13' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	26,480.28	1,130.24
08 33 23 13-0823 EA 13' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	28,744.00	1,136.10
08 33 23 13-0824 14' Wide, Full Vision, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral FV®) (08 33 23 13-0775)		
08 33 23 13-0825 EA 14' x 8', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	27,374.33	1,056.44
08 33 23 13-0826 EA 14' x 9', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	28,018.78	1,076.36
08 33 23 13-0827 EA 14' x 10', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	28,663.23	1,096.27
08 33 23 13-0828 EA 14' x 11', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	29,306.56	1,116.18
08 33 23 13-0829 EA 14' x 12', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	29,952.14	1,136.10
08 33 23 13-0830 EA 14' x 12' 9", Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	30,586.05	1,150.73
08 33 23 13-0831 EA 14' x 13', Full Vision, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral FV®)	30,596.59	1,156.01
08 33 23 13-0832 Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0560)		
08 33 23 13-0833 8' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)		
08 33 23 13-0834 EA 8' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	28,532.28	936.98
08 33 23 13-0835 EA 8' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	29,171.99	956.89
08 33 23 13-0836 EA 8' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	29,810.50	976.80
08 33 23 13-0837 EA 8' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	30,780.94	996.71
08 33 23 13-0838 EA 8' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	31,752.58	1,016.62
08 33 23 13-0839 EA 8' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	32,724.23	1,036.53
08 33 23 13-0840 EA 8' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	33,695.87	1,056.44
08 33 23 13-0841 9' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)		
08 33 23 13-0842 EA 9' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	29,171.99	956.89
08 33 23 13-0843 EA 9' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	29,810.50	976.80
08 33 23 13-0844 EA 9' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	30,449.01	996.71
08 33 23 13-0845 EA 9' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	31,420.65	1,016.62
08 33 23 13-0846 EA 9' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	32,391.09	1,036.53
08 33 23 13-0847 EA 9' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	33,362.73	1,056.44
08 33 23 13-0848 EA 9' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	34,340.41	1,076.36
08 33 23 13-0849 10' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)		
08 33 23 13-0850 EA 10' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	29,810.50	976.80
08 33 23 13-0851 EA 10' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®)	30,449.01	996.71



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0852	EA			10' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,087.51	1,016.62
08 33 23 13-0853	EA			10' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	32,059.16	1,036.53
08 33 23 13-0854	EA			10' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,029.59	1,056.44
08 33 23 13-0855	EA			10' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,001.23	1,076.36
08 33 23 13-0856	EA			10' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,984.94	1,096.27
08 33 23 13-0857 11' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)						
08 33 23 13-0858	EA			11' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	30,449.01	996.71
08 33 23 13-0859	EA			11' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,087.51	1,016.62
08 33 23 13-0860	EA			11' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,726.02	1,036.53
08 33 23 13-0861	EA			11' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	32,697.66	1,056.44
08 33 23 13-0862	EA			11' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,669.30	1,076.36
08 33 23 13-0863	EA			11' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,639.74	1,096.27
08 33 23 13-0864	EA			11' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	35,628.28	1,116.18
08 33 23 13-0865 12' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)						
08 33 23 13-0866	EA			12' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,087.51	1,016.62
08 33 23 13-0867	EA			12' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,726.02	1,036.53
08 33 23 13-0868	EA			12' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	32,364.52	1,056.44
08 33 23 13-0869	EA			12' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,336.16	1,076.36
08 33 23 13-0870	EA			12' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,307.80	1,096.27
08 33 23 13-0871	EA			12' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	35,278.24	1,116.18
08 33 23 13-0872	EA			12' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	36,274.03	1,136.10
08 33 23 13-0873 13' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)						
08 33 23 13-0874	EA			13' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	31,726.02	1,036.53
08 33 23 13-0875	EA			13' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	32,364.52	1,056.44
08 33 23 13-0876	EA			13' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,003.02	1,076.36
08 33 23 13-0877	EA			13' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,974.67	1,096.27
08 33 23 13-0878	EA			13' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,946.31	1,116.18
08 33 23 13-0879	EA			13' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	35,917.96	1,136.10
08 33 23 13-0880	EA			13' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	36,918.57	1,156.01
08 33 23 13-0881 14' Wide, Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Doors (Rytec® Spiral SST-HZ®) (08 33 23 13-0832)						
08 33 23 13-0882	EA			14' x 8', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	32,364.52	1,056.44
08 33 23 13-0883	EA			14' x 9', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,003.02	1,076.36
08 33 23 13-0884	EA			14' x 10', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	33,641.53	1,096.27
08 33 23 13-0885	EA			14' x 11', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	34,613.17	1,116.18
08 33 23 13-0886	EA			14' x 12', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	35,584.82	1,136.10
08 33 23 13-0887	EA			14' x 13', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	36,556.46	1,156.01
08 33 23 13-0888	EA			14' x 14', Hurricane Zone, Aluminum Rigid Panels, High-Speed Rolling Door (Rytec® Spiral SST-HZ®).....	37,557.07	1,175.92
08 33 23 13-0889 Rytec® Spiral® Door Options (08 33 23 13-0560)						
08 33 23 13-0890	EA			Insulated Slats For Rytec® Spiral® High-Speed Rolling Doors.....	363.22	
				Note: Per door price.		
08 33 23 13-0891	EA			Up To 13' Wide Doors, Width Of Door, Ventilated Slats For Rytec® Spiral® High-Speed Rolling Doors.....	245.88	
				Note: Maximum of 4 per door.		
08 33 23 13-0892	EA			>13' Wide Doors, Width Of Door, Ventilated Slats For Rytec® Spiral® High-Speed Rolling Doors.....	363.22	
				Note: Maximum of 4 per door.		
08 33 23 13-0893	EA			Up To 13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....	245.88	
				Note: Maximum of 4 per door.		
08 33 23 13-0894	EA			>13' Wide Doors, 6" High x Width Of Door, Window Slats For Rytec® Spiral® High-Speed Rolling Doors.....	363.22	
				Note: Maximum of 4 per door.		
08 33 23 13-0895	EA			Right Hand Motor Mount For Rytec® Spiral® High-Speed Rolling Doors.....	720.63	58.56
08 33 23 13-0896	EA			Up To 13' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	2,044.78	117.12
08 33 23 13-0897	EA			>13' To 16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	3,615.03	117.12
08 33 23 13-0898	EA			>16' Wide Doors, Full Hood For Rytec® Spiral® High-Speed Rolling Doors.....	4,101.19	117.12
08 33 23 13-0899	EA			Through Wall Brake Release For Rytec® Spiral® High-Speed Rolling Doors.....	422.46	
08 33 23 13-0900 Activation And Control Box Options For High Speed Doors (08 33 23 13)						
08 33 23 13-0901	EA			Pull Cord For High-Speed Rolling Doors.....	206.53	58.56
08 33 23 13-0902	EA			Emergency Stop, Pushbutton Control For High-Speed Rolling Doors.....	147.97	29.28
08 33 23 13-0903	EA			NEMA 4 Mushroom Remote Pushbutton Control For High-Speed Rolling Doors.....	181.50	29.28
08 33 23 13-0904	EA			On/Off Selector Switch, Remote Control For High-Speed Rolling Doors.....	131.20	29.28
08 33 23 13-0905	EA			On/Off Key Switch, Remote Control For High-Speed Rolling Doors.....	192.67	29.28
08 33 23 13-0906	EA			Keyed Remote Single Pushbutton Control For High-Speed Rolling Doors.....	304.44	29.28
08 33 23 13-0907	EA			Open/Close/Stop, Remote Pushbutton Control For High-Speed Rolling Doors.....	332.38	29.28
08 33 23 13-0908	EA			Radio Control For High-Speed Rolling Doors.....	538.90	52.71
				Note: Includes one receiver and two transmitters.		

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 23 13-0909	EA		Floor Loop For High-Speed Rolling Doors.....773.15 Note: Excludes sealant.	773.15	
08 33 23 13-0910	EA		Reflective Type Photo Eye For High-Speed Rolling Doors.....471.52	471.52	52.71
08 33 23 13-0911	EA		Thru-Beam Type Photo Eye For High-Speed Rolling Doors.....600.37	600.37	52.71
08 33 23 13-0912	EA		Motion Detector For High-Speed Rolling Doors.....494.96	494.96	35.14
08 33 23 13-0913	EA		Remote Warning Horn For High-Speed Rolling Doors.....363.00 Note: Includes wall box and mounting hardware.	363.00	58.56
08 33 23 13-0914	EA		Remote Strobe Light For High-Speed Rolling Doors .....480.34 Note: Includes wall box and mounting hardware.	480.34	58.56
08 33 23 13-0915	EA		Remote Warning Horn And Strobe Light For High-Speed Rolling Doors.....541.81 Note: Includes wall box and mounting hardware.	541.81	58.56
08 33 23 13-0916	EA		Red And Green Red Light For High-Speed Rolling Doors .....664.75 Note: Includes mounting hardware.	664.75	58.56
08 33 26			Overhead Coiling Grilles (08 33) Note: Includes curtains, guides, counterbalance mechanisms, hardware, operators, frame, supports and/or trim as required. Excludes lifting equipment (forklift or scissor lift) where required. See CSI section 01 22 23 00-0874 for forklift.		
08 33 26 00-0001			Galvanized Steel Overhead Coiling Grilles (Width x Height) (08 33 26)		
08 33 26 00-0002	EA		4' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....2,379.94 For Lexan Lattice Pattern, Add 263.06 For Aluminum With Clear Or Anodized Bronze Finish, Add 176.00 For Staggered Brick Pattern, Add 238.24	2,379.94	219.35
08 33 26 00-0003	EA		6' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....2,692.85 For Lexan Lattice Pattern, Add 309.99 For Aluminum With Clear Or Anodized Bronze Finish, Add 264.01 For Staggered Brick Pattern, Add 322.65	2,692.85	219.35
08 33 26 00-0004	EA		8' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....3,242.49 For Lexan Lattice Pattern, Add 368.75 For Aluminum With Clear Or Anodized Bronze Finish, Add 352.00 For Staggered Brick Pattern, Add 407.06	3,242.49	274.19
08 33 26 00-0005	EA		12' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....3,693.77 For Lexan Lattice Pattern, Add 436.44 For Aluminum With Clear Or Anodized Bronze Finish, Add 436.11 For Staggered Brick Pattern, Add 575.88	3,693.77	274.19
08 33 26 00-0006	EA		16' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....5,093.92 For Lexan Lattice Pattern, Add 575.77 For Aluminum With Clear Or Anodized Bronze Finish, Add 704.00 For Staggered Brick Pattern, Add 812.13	5,093.92	438.71
08 33 26 00-0007	EA		20' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....6,331.03 For Lexan Lattice Pattern, Add 715.10 For Aluminum With Clear Or Anodized Bronze Finish, Add 880.00 For Staggered Brick Pattern, Add 1,048.36	6,331.03	548.38
08 33 26 00-0008	EA		24' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....7,975.68 For Lexan Lattice Pattern, Add 914.55 For Aluminum With Clear Or Anodized Bronze Finish, Add 1,056.00 For Staggered Brick Pattern, Add 1,179.27	7,975.68	658.05
08 33 26 00-0009	EA		30' x 8', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....9,723.86 For Lexan Lattice Pattern, Add 1,114.98 For Aluminum With Clear Or Anodized Bronze Finish, Add 1,223.09 For Staggered Brick Pattern, Add 1,286.15	9,723.86	804.29
08 33 26 00-0010	EA		4' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....2,606.74 For Lexan Lattice Pattern, Add 297.08 For Aluminum With Clear Or Anodized Bronze Finish, Add 220.00 For Staggered Brick Pattern, Add 283.04	2,606.74	219.35
08 33 26 00-0011	EA		6' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....3,021.46 For Lexan Lattice Pattern, Add 359.29 For Aluminum With Clear Or Anodized Bronze Finish, Add 329.99 For Staggered Brick Pattern, Add 401.93	3,021.46	219.35
08 33 26 00-0012	EA		8' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....3,606.68 For Lexan Lattice Pattern, Add 423.73 For Aluminum With Clear Or Anodized Bronze Finish, Add 440.00 For Staggered Brick Pattern, Add 520.82	3,606.68	274.19
08 33 26 00-0013	EA		12' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....4,171.84 For Lexan Lattice Pattern, Add 508.50 For Aluminum With Clear Or Anodized Bronze Finish, Add 660.00 For Staggered Brick Pattern, Add 758.60	4,171.84	274.19
08 33 26 00-0014	EA		16' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....5,722.06 For Lexan Lattice Pattern, Add 669.99 For Aluminum With Clear Or Anodized Bronze Finish, Add 880.00 For Staggered Brick Pattern, Add 1,046.01	5,722.06	438.71
08 33 26 00-0015	EA		20' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....7,106.86 For Lexan Lattice Pattern, Add 831.48 For Aluminum With Clear Or Anodized Bronze Finish, Add 1,099.99 For Staggered Brick Pattern, Add 1,333.40	7,106.86	548.38
08 33 26 00-0016	EA		24' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....8,913.05 For Lexan Lattice Pattern, Add 1,055.16 For Aluminum With Clear Or Anodized Bronze Finish, Add 1,320.16 For Staggered Brick Pattern, Add 1,544.19	8,913.05	658.05
08 33 26 00-0017	EA		30' x 10', Galvanized Steel Overhead Coiling Grilles, Manual Lift.....11,171.26 For Lexan Lattice Pattern, Add 1,332.09 For Aluminum With Clear Or Anodized Bronze Finish, Add 1,545.71 For Staggered Brick Pattern, Add 1,729.84	11,171.26	804.29



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 26 00-0018	EA		4' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	2,866.47 336.04 264.01 327.18	219.35
08 33 26 00-0019	EA		6' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	2,941.65 347.31 396.00 479.87	219.35
08 33 26 00-0020	EA		8' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	3,583.91 419.96 527.99 632.57	274.19
08 33 26 00-0021	EA		12' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	4,714.04 589.48 791.97 937.95	274.19
08 33 26 00-0022	EA		16' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	6,610.00 803.18 1,055.98 1,304.03	438.71
08 33 26 00-0023	EA		20' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	8,342.88 1,016.88 1,319.99 1,670.10	548.38
08 33 26 00-0024	EA		24' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	10,114.25 1,235.34 1,584.00 1,765.90	658.05
08 33 26 00-0025	EA		30' x 12', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	12,601.31 1,546.60 1,835.61 1,923.97	804.29
08 33 26 00-0026	EA		4' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	3,331.01 405.72 307.88 605.16	219.35
08 33 26 00-0027	EA		6' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	3,838.20 481.80 461.92 743.06	219.35
08 33 26 00-0028	EA		8' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	4,506.59 558.71 615.94 865.23	274.19
08 33 26 00-0029	EA		12' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	5,572.02 718.53 923.99 1,097.17	274.19
08 33 26 00-0030	EA		16' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	7,495.92 936.07 1,232.00 1,467.82	438.71
08 33 26 00-0031	EA		20' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	9,254.43 1,153.61 1,539.99 1,838.46	548.38
08 33 26 00-0032	EA		24' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	11,060.66 1,377.30 1,847.99 2,085.02	658.05
08 33 26 00-0033	EA		30' x 14', Galvanized Steel Overhead Coiling Grilles, Manual Lift <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	14,143.13 1,777.87 2,181.57 2,382.23	804.29

08 33 26 00-0034 Coiling Grilles Accessories (08 33 26)
 08 33 26 00-0035 LF For Overhead Framed Rolling Grille Supports..... 114.95

08 33 36 Side Coiling Grilles (08 33)

08 33 36 00-0001	Galvanized Steel Side Coiling Grilles (Width x Height) (08 33 36)				
08 33 36 00-0002	EA		12' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	4,087.92 350.30 528.00 575.88	613.35
08 33 36 00-0003	EA		18' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	5,680.04 514.33 809.90 922.37	787.89
08 33 36 00-0004	EA		24' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated <i>For Lexan Lattice Pattern, Add</i> <i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i> <i>For Staggered Brick Pattern, Add</i>	7,342.03 675.54 1,056.00 1,179.27	993.45

08	Openings
08 30	Specialty Doors and Frames
08 33	Coiling Doors and Grilles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 33 36 00-0005	EA		30' x 8', Galvanized Steel Side Coiling Grilles, Manually Operated	8,764.38	1,096.76
			<i>For Lexan Lattice Pattern, Add</i>	844.43	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,223.09	
			<i>For Staggered Brick Pattern, Add</i>	1,286.15	
08 33 36 00-0006	EA		12' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated	4,915.08	699.32
			<i>For Lexan Lattice Pattern, Add</i>	437.57	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	660.00	
			<i>For Staggered Brick Pattern, Add</i>	758.60	
08 33 36 00-0007	EA		18' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated	6,856.36	898.19
			<i>For Lexan Lattice Pattern, Add</i>	643.30	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	972.01	
			<i>For Staggered Brick Pattern, Add</i>	1,151.92	
08 33 36 00-0008	EA		24' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated	8,763.03	1,132.17
			<i>For Lexan Lattice Pattern, Add</i>	829.08	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,320.16	
			<i>For Staggered Brick Pattern, Add</i>	1,544.19	
08 33 36 00-0009	EA		30' x 10', Galvanized Steel Side Coiling Grilles, Manually Operated	10,621.86	1,250.31
			<i>For Lexan Lattice Pattern, Add</i>	1,055.23	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,545.71	
			<i>For Staggered Brick Pattern, Add</i>	1,729.84	
08 33 36 00-0010	EA		12' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated	5,752.71	787.89
			<i>For Lexan Lattice Pattern, Add</i>	525.23	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	791.97	
			<i>For Staggered Brick Pattern, Add</i>	937.95	
08 33 36 00-0011	EA		18' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated	8,039.71	1,011.95
			<i>For Lexan Lattice Pattern, Add</i>	770.73	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,169.35	
			<i>For Staggered Brick Pattern, Add</i>	1,430.14	
08 33 36 00-0012	EA		24' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated	10,382.29	1,275.90
			<i>For Lexan Lattice Pattern, Add</i>	1,013.31	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,584.00	
			<i>For Staggered Brick Pattern, Add</i>	1,765.90	
08 33 36 00-0013	EA		30' x 12', Galvanized Steel Side Coiling Grilles, Manually Operated	12,467.92	1,407.51
			<i>For Lexan Lattice Pattern, Add</i>	1,266.64	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,835.61	
			<i>For Staggered Brick Pattern, Add</i>	1,923.97	
08 33 36 00-0014	EA		12' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated	6,581.19	871.14
			<i>For Lexan Lattice Pattern, Add</i>	614.13	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	923.99	
			<i>For Staggered Brick Pattern, Add</i>	1,097.17	
08 33 36 00-0015	EA		18' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated	9,221.88	1,118.70
			<i>For Lexan Lattice Pattern, Add</i>	899.70	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,336.43	
			<i>For Staggered Brick Pattern, Add</i>	1,588.98	
08 33 36 00-0016	EA		24' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated	11,898.79	1,410.43
			<i>For Lexan Lattice Pattern, Add</i>	1,182.20	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	1,847.99	
			<i>For Staggered Brick Pattern, Add</i>	2,085.02	
08 33 36 00-0017	EA		30' x 14', Galvanized Steel Side Coiling Grilles, Manually Operated	14,295.17	1,557.40
			<i>For Lexan Lattice Pattern, Add</i>	1,476.98	
			<i>For Aluminum With Clear Or Anodized Bronze Finish, Add</i>	2,181.57	
			<i>For Staggered Brick Pattern, Add</i>	2,382.23	

08 33 43 Overhead Coiling Smoke Curtains (08 33)**08 33 43 00-0001 Elevator Smoke Guard (08 33 43)**

08 33 43 00-0002	EA		Elevator Smoke Guard, 55" Width Housing (Smoke Guard 400).....	12,415.66	613.35
08 33 43 00-0003	EA		Elevator Smoke Guard, 64" Width Housing (Smoke Guard 400).....	12,867.06	613.35
08 33 43 00-0004	EA		Elevator Smoke Guard, 73" Width Housing (Smoke Guard 400).....	13,318.46	613.35

08 34 Special Function Doors (08 30)**08 34 13 Cold Storage Doors (08 34)****08 34 13 00-0001 Vertical Sliding Cold Storage Doors (08 34 13)**

Note: Doors to be filled with foamed-in-place polyurethane.

08 34 13 00-0002	EA		7'-0" x 8'-0" Single Leaf Vertical Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane.....	7,005.82	1,109.79
			<i>For Adjusting Height Of Door To Fit Opening <7' Height, Add</i>	553.81	
08 34 13 00-0003	EA		7'-0" x 9'-0" Bi-Pass Vertical Sliding Cold Storage Door, Filled With 4" Foam In Place (FIP) Polyurethane	8,980.65	1,408.90
			<i>For Adjusting Height Of Door To Fit Opening <7' Height, Add</i>	704.45	

08 34 13 00-0004 Horizontal Sliding Cold Storage Doors (08 34 13)

Note: Doors to be filled with foamed-in-place polyurethane.

08 34 13 00-0005	EA		6'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane	5,625.02	886.34
08 34 13 00-0006	EA		7'-0" x 9'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane	6,341.31	999.47
08 34 13 00-0007	EA		7'-0" x 9'-0" Bi-Parting Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane.....	8,208.59	1,317.18
08 34 13 00-0008	EA		5'-0" x 7'-0" Single Leaf Horizontal Sliding Cold Storage, Filled With 4" Foam In Place (FIP) Polyurethane	4,921.90	805.32

08 34 13 00-0009 Swinging Horizontal Hinged Cold Storage Doors (08 34 13)

Note: Doors to be filled with foamed-in-place polyurethane.

08 34 13 00-0010	EA		3'-0" x 7'-0" Swinging Cold Storage Door, Filled With 4" Foam In Place (FIP) Polyurethane.....	2,861.46	523.83
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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 34 16 Hangar Doors (08 34)						
	08 34 16 00-0001	SF		70' To 120' Wide X To 20' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	72.70	16.95
	08 34 16 00-0002	SF		120' To 180' Wide X To 20' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	64.89	16.95
	08 34 16 00-0003	SF		120' To 180' Wide X 20-40' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	68.00	3.64
	08 34 16 00-0004	SF		120' To 180' Wide X 40-60' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	72.69	2.42
	08 34 16 00-0005	SF		120' To 180' Wide X 60-80' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	77.69	2.42
	08 34 16 00-0006	SF		120' To 180' Wide x >80' High Hanger Door 25' Panels..... Note: Includes motorized opener and special hardware.	122.92	2.42
08 34 23 Sidewalk and Basement Doors (08 34)						
08 34 23 00-0001 Drainage Doors (08 34 23)						
08 34 23 00-0002 Single Leaf Aluminum Drainage Doors (08 34 23 00-0001)						
Note: Bilco - J Series.						
	08 34 23 00-0003	EA		2' x 2' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,105.13	208.60
	08 34 23 00-0004	EA		2' 6" x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	1,345.60	217.97
	08 34 23 00-0005	EA		3' x 2' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	1,425.85	222.65
	08 34 23 00-0006	EA		3' x 3' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	1,566.06	227.33
	08 34 23 00-0007	EA		3' 6" x 3' 6" Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	1,816.68	239.05
	08 34 23 00-0008	EA		2' 6" x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	1,848.45	233.54
	08 34 23 00-0009	EA		3' x 4' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,049.74	239.05
	08 34 23 00-0010	EA		2' 6" x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	2,137.86	244.56
	08 34 23 00-0011	EA		3' x 5' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,339.18	250.06
	08 34 23 00-0012	EA		3' x 6' Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,706.52	264.11
08 34 23 00-0013 Double Leaf Aluminum Drainage Doors (08 34 23 00-0001)						
Note: Bilco - JD Series.						
	08 34 23 00-0014	EA		4' x 2' 6" Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door	2,181.39	233.54
	08 34 23 00-0015	EA		4' x 4' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	2,292.57	250.06
	08 34 23 00-0016	EA		4' x 6' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	2,894.08	278.17
	08 34 23 00-0017	EA		5' x 5' Double Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door.....	2,973.99	278.17
08 34 23 00-0018 Single Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001)						
Note: Bilco - J H2O Series.						
	08 34 23 00-0019	EA		2' x 2' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door.....	1,724.41	208.60
	08 34 23 00-0020	EA		2' 6" x 2' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,004.83	217.97
	08 34 23 00-0021	EA		3' x 2' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,178.33	222.65
	08 34 23 00-0022	EA		3' x 3' Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door.....	2,458.38	227.33
	08 34 23 00-0023	EA		3' 6" x 3' 6" Single Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door	2,835.52	239.05
08 34 23 00-0024 Double Leaf Aluminum H2O Drainage Doors (08 34 23 00-0001)						
Note: Bilco - JD H2O Series.						
	08 34 23 00-0025	EA		4' x 2' 6" Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1ALH2O).....	2,833.96	233.54
	08 34 23 00-0026	EA		4' x 4' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2ALH2O).....	3,770.83	250.06
	08 34 23 00-0027	EA		4' x 6' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3ALH2O).....	5,337.88	278.17
	08 34 23 00-0028	EA		5' x 5' Double Leaf Aluminum H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4ALH2O).....	5,031.57	278.17
08 34 23 00-0029 Single Leaf Steel Drainage Doors (08 34 23 00-0001)						
Note: Bilco - J Series.						
	08 34 23 00-0030	EA		2' x 2' Single Leaf Steel Floor, Vault Or Sidewalk Door (Bilco J-1)	1,564.81	208.60
	08 34 23 00-0031	EA		2' 6" x 2' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-2)	1,643.80	217.97
	08 34 23 00-0032	EA		3' x 2' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-3)	1,827.02	222.65
	08 34 23 00-0033	EA		3' x 3' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-4).....	2,019.54	227.33
	08 34 23 00-0034	EA		3' 6" x 3' 6" Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-5)	2,343.17	239.05
	08 34 23 00-0035	EA		2' 6" x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-6)	2,232.96	233.54
	08 34 23 00-0036	EA		3' x 4' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-7).....	2,537.93	239.05
	08 34 23 00-0037	EA		2' 6" x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-8)	2,527.60	244.56
	08 34 23 00-0038	EA		3' x 5' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-9).....	2,814.05	250.06
	08 34 23 00-0039	EA		3' x 6' Single Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco J-10).....	3,002.08	264.11
08 34 23 00-0040 Double Leaf Steel Drainage Doors (08 34 23 00-0001)						
Note: Bilco - JD Series.						
	08 34 23 00-0041	EA		4' x 2' 6" Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1).....	2,733.79	233.54
	08 34 23 00-0042	EA		4' x 4' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2).....	2,869.70	250.06
	08 34 23 00-0043	EA		4' x 6' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3).....	3,570.37	278.17
	08 34 23 00-0044	EA		5' x 5' Double Leaf Steel Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4).....	3,672.39	278.17

08	Openings
08 30	Specialty Doors and Frames
08 34	Special Function Doors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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08 34 23 00-0045	Single Leaf Steel H2O Drainage Doors (08 34 23 00-0001)				
	Note: Bilco - J H2O Series.				
08 34 23 00-0046	EA	2' x 2'	Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-1H2O)	2,640.67	208.60
08 34 23 00-0047	EA	2' 6" x 2' 6"	Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-2H2O)	2,793.86	217.97
08 34 23 00-0048	EA	3' x 2' 6"	Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-3H2O)	2,893.63	222.65
08 34 23 00-0049	EA	3' x 3'	Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-4H2O)	3,401.50	227.33
08 34 23 00-0050	EA	3' 6" x 3' 6"	Single Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco J-5H2O)	4,003.37	239.05
08 34 23 00-0051	Double Leaf Steel H2O Drainage Doors (08 34 23 00-0001)				
	Note: Bilco - JD H2O Series.				
08 34 23 00-0052	EA	4' x 2' 6"	Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-1H2O)	4,403.23	233.54
08 34 23 00-0053	EA	4' x 4'	Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-2H2O)	4,919.40	250.06
08 34 23 00-0054	EA	4' x 6'	Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-3H2O)	7,289.51	278.17
08 34 23 00-0055	EA	5' x 5'	Double Leaf Steel H2O Drainage Floor, Vault Or Sidewalk Door (Bilco JD-4H2O)	7,104.01	278.17
08 34 23 00-0056	Single Leaf Aluminum Drainage Door (08 34 23 00-0001)				
	Note: Bilco - J-R (Odor Resistant).				
08 34 23 00-0057	EA	2' x 2'	Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-1ALR)	1,976.27	208.60
08 34 23 00-0058	EA	2' 6" x 2' 6"	Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-2ALR)	2,356.16	217.97
08 34 23 00-0059	EA	3' x 2' 6"	Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-3ALR)	2,502.01	222.65
08 34 23 00-0060	EA	3' x 3'	Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-4ALR)	2,650.56	227.33
08 34 23 00-0061	EA	3' 6" x 3' 6"	Single Leaf Aluminum Drainage Floor, Vault Or Sidewalk Door, Odor Resistant (Bilco J-5ALR)	3,004.57	239.05
08 34 23 00-0062	Non-Drainage Doors (08 34 23)				
08 34 23 00-0063	Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - Q Series.				
08 34 23 00-0064	EA	2' x 2'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-1AL)	1,065.27	208.60
08 34 23 00-0065	EA	2' 6" x 2' 6"	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-2AL)	1,279.02	217.97
08 34 23 00-0066	EA	2' 6" x 3'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-3AL)	1,365.99	222.65
08 34 23 00-0067	EA	3' x 3'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-4AL)	1,419.60	227.33
08 34 23 00-0068	EA	3' 6" x 3' 6"	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-5AL)	1,770.07	239.05
08 34 23 00-0069	EA	2' 6" x 4'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-6AL)	1,602.11	233.54
08 34 23 00-0070	EA	3' x 4'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-7AL)	1,783.38	239.05
08 34 23 00-0071	EA	2' 6" x 5'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-8AL)	1,991.23	244.56
08 34 23 00-0072	EA	3' x 5'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-9AL)	2,106.21	250.06
08 34 23 00-0073	EA	3' x 6'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-10AL)	2,387.22	264.11
08 34 23 00-0074	Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - K Series.				
08 34 23 00-0075	EA	2' x 2'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-1)	885.48	208.60
08 34 23 00-0076	EA	2' 6" x 2' 6"	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-2)	1,052.61	217.97
08 34 23 00-0077	EA	3' x 2' 6"	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-3)	1,159.57	222.65
08 34 23 00-0078	EA	3' x 3'	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-4)	1,233.16	227.33
08 34 23 00-0079	EA	3' 6" x 3' 6"	Single Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco K-5)	1,423.81	239.05
08 34 23 00-0080	Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - QD Series.				
08 34 23 00-0081	EA	4' x 2' 6"	Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco QD-1AL)	2,014.96	233.54
08 34 23 00-0082	Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - KD Series.				
08 34 23 00-0083	EA	4' x 4'	Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door	1,939.74	250.06
08 34 23 00-0084	EA	4' x 6'	Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco KD-3)	2,701.10	278.17
08 34 23 00-0085	EA	5' x 5'	Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco KD-4)	2,754.37	278.17
08 34 23 00-0086	Single Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - T Series.				
08 34 23 00-0087	EA	2' x 2'	Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-1)	965.39	208.60
08 34 23 00-0088	EA	2' 6" x 2' 6"	Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-2)	1,119.20	217.97
08 34 23 00-0089	EA	3' x 2' 6"	Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-3)	1,192.86	222.65
08 34 23 00-0090	EA	3' x 3'	Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-4)	1,299.74	227.33
08 34 23 00-0091	EA	3' 6" x 3' 6"	Single Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco T-5)	1,510.37	239.05
08 34 23 00-0092	Double Leaf Aluminum Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - TD Series.				
08 34 23 00-0093	EA	4' x 4'	Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-2)	2,052.94	250.06
08 34 23 00-0094	EA	4' x 6'	Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-3)	2,840.93	278.17
08 34 23 00-0095	EA	5' x 5'	Double Leaf Aluminum Non-Drainage Door, Floor Installation For Covering (Bilco TD-4)	2,880.88	278.17
08 34 23 00-0096	Single Leaf Steel Non-Drainage Doors (08 34 23 00-0062)				
	Note: Bilco - Q Series.				



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				08 34 23 00-0097 EA 2' x 2' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-1).....	1,082.62	208.60
				08 34 23 00-0098 EA 2' 6" x 2' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-2).....	1,207.89	217.97
				08 34 23 00-0099 EA 3' x 2' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-3).....	1,354.08	222.65
				08 34 23 00-0100 EA 3' x 3' Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-4).....	1,435.28	227.33
				08 34 23 00-0101 EA 3' 6" x 3' 6" Single Leaf Steel Non-Drainage Floor, Vault Or Sidewalk Door (Bilco Q-5).....	1,601.96	239.05
				08 34 23 00-0102 EA 2' 6" x 4' Single Leaf Steel Non Drainage Floor, Vault Or Sidewalk Door.....	1,630.05	227.33
08 34 23 00-0103				Double Leaf Steel Non-Drainage Doors (08 34 23 00-0092) Note: Bilco - QD Series.		
				08 34 23 00-0104 EA 4' x 2' 6" Double Leaf Aluminum Non-Drainage Floor, Vault Or Sidewalk Door (Bilco QD-1).....	2,149.49	233.54
08 34 23 00-0105				Basement Doors (08 34 23) Note: 12 gauge primed steel, center opening, includes assembly and installation hardware.		
				08 34 23 00-0106 EA 45-1/4" Wide x 65-1/4" Long, Sloped Wall Basement Door, Factory Primed Metal (Bilco Classic Series).....	1,508.95	263.53
				08 34 23 00-0107 EA 30" High x 47" Wide x 58" Long, Basement Door (Bilco Classic Series).....	1,243.38	199.69
				08 34 23 00-0108 EA 22" High x 51" Wide x 64" Long, Basement Door (Bilco Classic Series).....	1,296.21	219.60
				08 34 23 00-0109 EA 19-1/2" High x 55" Wide x 72" Long, Basement Door (Bilco Classic Series).....	1,384.89	234.25
				08 34 23 00-0110 EA 52" High x 51" Wide x 43-1/4" Long, Basement Door (Bilco Classic Series).....	1,534.32	263.53
08 34 49				Radiation Shielding Doors and Frames (08 34)		
08 34 49 13				Neutron Shielding Doors and Frames (08 34 49)		
08 34 49 13-0001				Lead Lined Doors And Frames (08 34 49 13)		
				08 34 49 13-0002 SF 1/16" Thick Laminated Lead In Wood Door.....	112.41	11.72
				08 34 49 13-0003 SF 1/8" Thick Laminated Lead In Wood Door.....	137.34	11.72
				08 34 49 13-0004 LF 1/16" Thick Lead Lined Door Frame.....	121.21	11.72
				08 34 49 13-0005 LF 1/8" Thick Lead Lined Door Frame.....	129.53	11.72
08 34 53				Security Doors and Frames (08 34)		
08 34 53 00-0001				Metal Security Doors, Bullet Resistant (08 34 53) Note: Includes door, frame, hardware hinges, lockset and cylinder, all UL 753 Listed.		
				08 34 53 00-0002 SF Metal Security Door.....	65.48	8.57
				08 34 53 00-0003 EA Up To 3' x 7' (.38 caliber) Medium-Small Arms Metal Security Door.....	2,669.43	427.74
				08 34 53 00-0004 EA Up To 3' x 7' (.44 caliber) Super-Small Arms Metal Security Door.....	3,155.45	454.06
08 34 53 00-0005				Metal Security Doors (08 34 53) Note: Includes standard pitcher handle latch, pneumatic closure, hinges and baked enamel finish.		
				08 34 53 00-0006 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-501-28-O).....	898.62	78.34
				Note: Top and bottom section are #12 mesh 0.028" stainless steel wire cloth with a bottom kick plate.		
				08 34 53 00-0007 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-503-28-O).....	898.62	78.34
				Note: Top section is #12 mesh 0.028" stainless steel wire cloth and bottom section is a double kick panel.		
				08 34 53 00-0008 EA Up To 3' x 7' Steel Narrowline Security Door (Kane Screens S-504-28-O).....	1,269.61	78.34
				Note: Top section includes 1/8" tempered sash unit and #12 mesh 0.028" stainless steel wire cloth. Bottom section is a double kick panel.		
08 34 56				Security Gates (08 34)		
08 34 56 00-0001				Pivoting Double Folding Gate (08 34 56) Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.		
				08 34 56 00-0002 EA 6' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,058.20	223.03
				08 34 56 00-0003 EA 8' To 10' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,188.14	250.91
				08 34 56 00-0004 EA 8' To 10' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,281.00	278.80
				08 34 56 00-0005 EA 8' To 10' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,410.93	306.67
				08 34 56 00-0006 EA 10' To 12' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,193.45	225.82
				08 34 56 00-0007 EA 10' To 12' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,286.54	253.70
				08 34 56 00-0008 EA 10' To 12' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,410.85	281.58
				08 34 56 00-0009 EA 10' To 12' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,509.90	309.45
				08 34 56 00-0010 EA 12' To 14' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,254.65	228.61
				08 34 56 00-0011 EA 12' To 14' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,347.44	256.49
				08 34 56 00-0012 EA 12' To 14' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,421.77	270.42
				08 34 56 00-0013 EA 12' To 14' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,496.42	284.37
				08 34 56 00-0014 EA 12' To 14' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,598.58	312.24
				08 34 56 00-0015 EA 14' To 16' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,371.64	231.39
				08 34 56 00-0016 EA 14' To 16' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,464.09	259.28
				08 34 56 00-0017 EA 14' To 16' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,547.64	273.21
				08 34 56 00-0018 EA 14' To 16' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,650.69	287.16
				08 34 56 00-0019 EA 14' To 16' Width Opening, 8' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,798.65	315.03
				08 34 56 00-0020 EA 16' To 18' Width Opening, 6' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,549.90	236.97
				08 34 56 00-0021 EA 16' To 18' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,666.36	267.64
				08 34 56 00-0022 EA 16' To 18' Width Opening, 7' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,792.49	284.37
				08 34 56 00-0023 EA 16' To 18' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Double Folding Gate.....	1,866.05	292.73
08 34 56 00-0024				Pivoting Single Folding Gate (08 34 56) Note: Includes locking bar, solid steel casters and galvanized finish. Excludes padlock.		

08	Openings
08 30	Specialty Doors and Frames
08 34	Special Function Doors



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

08 34 56 00-0025	EA	5' To 6' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	720.34	156.12
08 34 56 00-0026	EA	5' To 6' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	768.58	161.70
08 34 56 00-0027	EA	5' To 6' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	816.84	167.27
08 34 56 00-0028	EA	5' To 6' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	876.26	178.43
08 34 56 00-0029	EA	5' To 6' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	917.11	189.58
08 34 56 00-0030	EA	6' To 7' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	768.42	161.70
08 34 56 00-0031	EA	6' To 7' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	816.91	167.27
08 34 56 00-0032	EA	6' To 7' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	865.16	172.85
08 34 56 00-0033	EA	6' To 7' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	924.52	184.00
08 34 56 00-0034	EA	6' To 7' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	965.63	195.15
08 34 56 00-0035	EA	7' To 8' Width Opening, 6' In Use Height, Pivoting Galvanized Single Folding Gate	835.21	167.27
08 34 56 00-0036	EA	7' To 8' Width Opening, 6-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	883.71	172.85
08 34 56 00-0037	EA	7' To 8' Width Opening, 7' In Use Height, Pivoting Galvanized Single Folding Gate	931.89	178.43
08 34 56 00-0038	EA	7' To 8' Width Opening, 7-1/2' In Use Height, Pivoting Galvanized Single Folding Gate	991.43	189.58
08 34 56 00-0039	EA	7' To 8' Width Opening, 8' In Use Height, Pivoting Galvanized Single Folding Gate	1,051.09	200.73

08 34 56 00-0040 Window Gates, Expands From 2' To 4' (08 34 56)

Note: Includes padlock hasp and galvanized finish. Excludes padlock.

08 34 56 00-0041	EA	33" High Window Gate, Up To 4' Wide Opening	292.00	61.34
08 34 56 00-0042	EA	37" High Window Gate, Up To 4' Wide Opening	303.16	66.91
08 34 56 00-0043	EA	40" High Window Gate, Up To 4' Wide Opening	303.16	66.91
08 34 56 00-0044	EA	43" High Window Gate, Up To 4' Wide Opening	315.03	72.49
08 34 56 00-0045	EA	46" High Window Gate, Up To 4' Wide Opening	315.03	72.49
08 34 56 00-0046	EA	49" High Window Gate, Up To 4' Wide Opening	326.18	78.06
08 34 56 00-0047	EA	51" High Window Gate, Up To 4' Wide Opening	326.19	78.06
08 34 56 00-0048	EA	53" High Window Gate, Up To 4' Wide Opening	337.33	83.63
08 34 56 00-0049	EA	55" High Window Gate, Up To 4' Wide Opening	337.33	83.63
08 34 56 00-0050	EA	57" High Window Gate, Up To 4' Wide Opening	348.49	89.21
08 34 56 00-0051	EA	59" High Window Gate, Up To 4' Wide Opening	348.49	89.21

08 34 56 00-0052 Pivoting Door Gate, Expands From 2' To 4' (08 34 56)

Note: Includes padlock hasp and galvanized finish. Excludes padlock.

08 34 56 00-0053	EA	61" High Pivoting Door Gate, Up To 4' Wide Opening	359.64	94.79
08 34 56 00-0054	EA	63" High Pivoting Door Gate, Up To 4' Wide Opening	361.90	94.79
08 34 56 00-0055	EA	66" High Pivoting Door Gate, Up To 4' Wide Opening	376.06	100.37
08 34 56 00-0056	EA	71" High Pivoting Door Gate, Up To 4' Wide Opening	390.21	105.94
08 34 56 00-0057	EA	73" High Pivoting Door Gate, Up To 4' Wide Opening	393.22	105.94
08 34 56 00-0058	EA	76" High Pivoting Door Gate, Up To 4' Wide Opening	407.37	111.52
08 34 56 00-0059	EA	79" High Pivoting Door Gate, Up To 4' Wide Opening	410.38	111.52
08 34 56 00-0060	EA	81" High Pivoting Door Gate, Up To 4' Wide Opening	423.61	117.09
08 34 56 00-0061	EA	83" High Pivoting Door Gate, Up To 4' Wide Opening	427.54	117.09

08 34 73 Sound Control Door Assemblies (08 34)

08 34 73 13 Metal Sound Control Door Assemblies (08 34 73)

08 34 73 13-0001 Steel Acoustical Door Assembly (08 34 73 13)

Note: Includes seal.

08 34 73 13-0002 Steel Acoustical Doors (08 34 73 13-0001)

Note: Includes hinges.

08 34 73 13-0003	EA	3' x 7', 14 Gauge, STC 50, Steel Acoustical Door (Unrated)	3,094.65	70.27
		For 60 Minutes Fire Rated, Add	178.44	
		For 3" x 33" Vision Lite, Add	1,239.90	
		For 20" x 64" Vision Lite, Add	1,326.83	
08 34 73 13-0004	EA	3'-6" x 7', 14 Gauge, STC 52, Steel Acoustical Door (Unrated)	3,278.95	73.20
		For 60 Minutes Fire Rated, Add	178.44	
		For 3" x 33" Vision Lite, Add	1,239.90	
		For 20" x 64" Vision Lite, Add	1,326.83	
08 34 73 13-0005	EA	4' x 7', 14 Gauge, STC 53, Steel Acoustical Door (Unrated)	3,469.10	79.06
		For 60 Minutes Fire Rated, Add	178.44	
		For 3" x 33" Vision Lite, Add	1,239.90	
		For 20" x 64" Vision Lite, Add	1,326.83	
08 34 73 13-0006	PR	Pair 3' x 7', 14 Gauge, STC 50, Steel Acoustical Doors (Unrated)	6,175.26	133.52
		For 1 Hour Fire Rated, Add	356.87	
		For 3" x 33" Windows, Add	2,479.80	
		For 20" x 64" Windows, Add	2,653.67	

08 34 73 13-0007 Steel Acoustical Door Frames (08 34 73 13-0001)

08 34 73 13-0008	EA	3' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,549.34	117.12
08 34 73 13-0009	EA	3' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,614.92	117.12
08 34 73 13-0010	EA	3' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,680.50	117.12
08 34 73 13-0011	EA	3' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,746.08	117.12
08 34 73 13-0012	EA	3'-6" x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,914.39	128.84
08 34 73 13-0013	EA	3'-6" x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	2,987.59	128.84
08 34 73 13-0014	EA	3'-6" x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,053.17	128.84
08 34 73 13-0015	EA	3'-6" x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,134.51	128.84
08 34 73 13-0016	EA	4' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,284.49	134.69
08 34 73 13-0017	EA	4' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,350.07	134.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 34 73 13-0018 EA 4' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,415.65	134.69
08 34 73 13-0019 EA 4' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame	3,488.86	134.69
08 34 73 13-0020 EA 6' x 7', 4-1/2" To 6-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	5,791.81	152.26
08 34 73 13-0021 EA 6' x 7', 6-1/2" To 8-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	5,854.34	152.26
08 34 73 13-0022 EA 6' x 7', 8-1/2" To 10-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	5,921.44	152.26
08 34 73 13-0023 EA 6' x 7', 10-1/2" To 12-1/2" Wall Thickness, 14 Gauge, Split-Frame, Steel Acoustical Door Frame With Removable Center Mullion	5,990.07	152.26

08 34 73 16 Wood Sound Control Door Assemblies (08 34 73)

08 34 73 16-0001	Wood Acoustical Door Assembly (08 34 73 16) Note: Includes the prefinished door, frame, hinges and seals.		
08 34 73 16-0002 EA	3' x 7' x 1-3/4" Thick, STC 40, Wood Acoustical Door System (Unrated)	3,132.92	210.82
08 34 73 16-0003 EA	3' x 7' x 1-3/4" Thick, STC 49, Wood Acoustical Door System (Unrated)	4,276.74	210.82

08 60 Roof Windows and Skylights (08)

Note: Includes hardware, caulk, sealant and necessary anchors.

08 62 Unit Skylights (08 60)

08 62 23 Tubular Skylights (08 62)

08 62 23 00-0001	Aluminum Framed Solar Tube Skylights (08 62 23) Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.		
08 62 23 00-0002	31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)		
08 62 23 00-0003 EA	2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,123.35	190.46
	For Class 3 Hail Rated, Add	4.00	
	For Polycarbonate Diffuser Lens, Add	7.00	
	For High Velocity Hurricane Zone Rated, Add	14.00	
	For FM Approved, Add	20.00	
	For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
	For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
	For Single Blade Louver, Add	830.49	
08 62 23 00-0004 EA	3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,184.56	195.22
	For Class 3 Hail Rated, Add	4.00	
	For Polycarbonate Diffuser Lens, Add	7.00	
	For High Velocity Hurricane Zone Rated, Add	14.00	
	For FM Approved, Add	20.00	
	For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
	For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
	For Single Blade Louver, Add	831.44	
08 62 23 00-0005 EA	4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,244.03	199.98
	For Class 3 Hail Rated, Add	4.00	
	For Polycarbonate Diffuser Lens, Add	7.00	
	For High Velocity Hurricane Zone Rated, Add	14.00	
	For FM Approved, Add	20.00	
	For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
	For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
	For Single Blade Louver, Add	832.40	
08 62 23 00-0006 EA	5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,327.64	204.74
	For Class 3 Hail Rated, Add	4.00	
	For Polycarbonate Diffuser Lens, Add	7.00	
	For High Velocity Hurricane Zone Rated, Add	14.00	
	For FM Approved, Add	20.00	
	For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
	For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
	For Single Blade Louver, Add	833.35	
08 62 23 00-0007 EA	6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,400.90	209.51
	For Class 3 Hail Rated, Add	4.00	
	For Polycarbonate Diffuser Lens, Add	7.00	
	For High Velocity Hurricane Zone Rated, Add	14.00	
	For FM Approved, Add	20.00	
	For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00	
	For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00	
	For Single Blade Louver, Add	834.30	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0008	EA		7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,460.38	214.26
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	835.25	
08 62 23 00-0009	EA		8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,519.85	219.03
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	836.21	
08 62 23 00-0010	EA		9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,617.23	223.79
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	837.16	
08 62 23 00-0011	EA		10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,676.71	228.55
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	838.11	
08 62 23 00-0012	EA		11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,737.91	233.31
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	839.06	
08 62 23 00-0013	EA		12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,797.38	238.08
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0014	EA		13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,894.76	242.83
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0015	EA		14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,954.24	247.60
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0016	EA		15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,013.72	252.35
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	842.87	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0017	EA		16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,073.19	257.12
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0018			31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0019	EA		2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,355.90	190.46
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	830.49	
08 62 23 00-0020	EA		3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,439.50	195.22
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	831.44	
08 62 23 00-0021	EA		4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,523.10	199.98
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	832.40	
08 62 23 00-0022	EA		5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,606.70	204.74
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	833.35	
08 62 23 00-0023	EA		6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,741.98	209.51
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	834.30	
08 62 23 00-0024	EA		7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,825.57	214.26
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	835.25	
08 62 23 00-0025	EA		8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,909.16	219.03
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	836.21	
08 62 23 00-0026	EA		9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,044.43	223.79
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	837.16	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0027	EA		10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,128.03	228.55
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	838.11	
08 62 23 00-0028	EA		11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,211.62	233.31
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	839.06	
08 62 23 00-0029	EA		12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,295.22	238.08
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0030	EA		13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,430.49	242.83
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0031	EA		14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,514.09	247.60
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0032	EA		15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,597.68	252.35
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	842.87	
08 62 23 00-0033	EA		16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,681.27	257.12
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0034			55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0035	EA		2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,804.90	214.26
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	835.25	
08 62 23 00-0036	EA		3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,921.22	219.03
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	836.21	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0037	EA	4'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,039.26	223.79
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	837.16	
08 62 23 00-0038	EA	5'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,155.59	228.55
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	838.11	
08 62 23 00-0039	EA	6'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,340.82	233.31
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	839.06	
08 62 23 00-0040	EA	7'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,457.14	238.08
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	840.02	
08 62 23 00-0041	EA	8'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,573.46	242.83
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	840.97	
08 62 23 00-0042	EA	9'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,760.42	247.60
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	841.92	
08 62 23 00-0043	EA	10'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,876.74	252.35
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	842.87	
08 62 23 00-0044	EA	11'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,993.06	257.12
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	843.82	
08 62 23 00-0045	EA	12'	Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,109.38	261.88
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	844.78	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0046	EA		13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,294.62	266.64
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	845.73	
08 62 23 00-0047	EA		14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,410.94	271.41
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	846.68	
08 62 23 00-0048	EA		15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,528.98	276.17
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	847.63	
08 62 23 00-0049	EA		16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,645.30	280.93
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	848.59	

08 63 Metal-Framed Skylights (08 60)**08 63 13 Domed Metal-Framed Skylights** (08 63)08 63 13 00-0001 Domed Aluminum Framed Skylights (08 63 13)08 63 13 00-0002 Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)08 63 13 00-0003 Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)08 63 13 00-0004 Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)

Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.

08 63 13 00-0005	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	398.64	95.23
08 63 13 00-0006	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	457.88	95.23
08 63 13 00-0007	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	622.15	107.14
08 63 13 00-0008	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	703.52	119.04
08 63 13 00-0009	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	488.34	95.23
08 63 13 00-0010	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	600.15	107.14
08 63 13 00-0011	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	637.38	107.14
08 63 13 00-0012	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	733.98	119.04
08 63 13 00-0013	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	855.95	130.94
08 63 13 00-0014	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	606.92	107.14
08 63 13 00-0015	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	671.36	119.04
08 63 13 00-0016	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	742.44	119.04
08 63 13 00-0017	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	817.02	130.94
08 63 13 00-0018	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	905.15	142.85
08 63 13 00-0019	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,018.66	154.75
08 63 13 00-0020	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	722.14	119.04
08 63 13 00-0021	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	795.02	130.94



Openings	08
Roof Windows and Skylights	08 60
Metal-Framed Skylights	08 63

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0022 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	906.84	142.85
08 63 13 00-0023 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	950.84	142.85
08 63 13 00-0024 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,098.20	154.75
08 63 13 00-0025 Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0026 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	483.26	95.23
08 63 13 00-0027 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	540.81	95.23
08 63 13 00-0028 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	688.16	107.14
08 63 13 00-0029 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	771.22	119.04
08 63 13 00-0030 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	549.27	95.23
08 63 13 00-0031 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	647.54	107.14
08 63 13 00-0032 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	688.16	107.14
08 63 13 00-0033 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	791.53	119.04
08 63 13 00-0034 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	889.80	130.94
08 63 13 00-0035 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	654.31	107.14
08 63 13 00-0036 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	725.52	119.04
08 63 13 00-0037 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	771.22	119.04
08 63 13 00-0038 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	849.18	130.94
08 63 13 00-0039 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	922.07	142.85
08 63 13 00-0040 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,037.28	154.75
08 63 13 00-0041 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	777.99	119.04
08 63 13 00-0042 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	855.95	130.94
08 63 13 00-0043 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	942.38	142.85
08 63 13 00-0044 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	989.77	142.85
08 63 13 00-0045 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,123.59	154.75
08 63 13 00-0046 High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0047 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	490.03	95.23
08 63 13 00-0048 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	554.35	95.23
08 63 13 00-0049 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	706.78	107.14
08 63 13 00-0050 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	566.20	95.23
08 63 13 00-0051 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	671.24	107.14
08 63 13 00-0052 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	706.78	107.14
08 63 13 00-0053 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	811.84	119.04
08 63 13 00-0054 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	669.54	107.14
08 63 13 00-0055 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	739.06	119.04
08 63 13 00-0056 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	793.22	119.04
08 63 13 00-0057 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	871.18	130.94
08 63 13 00-0058 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	949.15	142.85

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0059 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	798.30	119.04
08 63 13 00-0060 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	883.03	130.94
08 63 13 00-0061 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	969.46	142.85
08 63 13 00-0062 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,016.85	142.85
08 63 13 00-0063 FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0064 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	501.88	95.23
08 63 13 00-0065 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	572.96	95.23
08 63 13 00-0066 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	723.70	107.14
08 63 13 00-0067 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	832.15	119.04
08 63 13 00-0068 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	583.12	95.23
08 63 13 00-0069 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	686.47	107.14
08 63 13 00-0070 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	723.70	107.14
08 63 13 00-0071 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	837.22	119.04
08 63 13 00-0072 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	688.16	107.14
08 63 13 00-0073 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	757.68	119.04
08 63 13 00-0074 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	816.92	119.04
08 63 13 00-0075 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	896.57	130.94
08 63 13 00-0076 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	976.23	142.85
08 63 13 00-0077 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	823.68	119.04
08 63 13 00-0078 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	908.42	130.94
08 63 13 00-0079 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	996.54	142.85
08 63 13 00-0080 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,047.31	142.85
08 63 13 00-0081 Curb Top Inserts <small>(08 63 13 00-0003)</small>		
Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb.		
08 63 13 00-0082 Single Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0083 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....	157.24	47.61
08 63 13 00-0084 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....	219.11	53.56
08 63 13 00-0085 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....	370.23	71.42
08 63 13 00-0086 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....	342.82	65.47
08 63 13 00-0087 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert.....	418.47	71.42
08 63 13 00-0088 Double Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0089 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	227.87	47.61
08 63 13 00-0090 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	355.19	53.56
08 63 13 00-0091 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	616.57	71.42
08 63 13 00-0092 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	604.66	65.47
08 63 13 00-0093 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	759.54	71.42
08 63 13 00-0094 Triple Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0095 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....	296.77	47.61
08 63 13 00-0096 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....	484.39	53.56
08 63 13 00-0097 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....	919.74	71.42
08 63 13 00-0098 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....	849.26	65.47
08 63 13 00-0099 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert.....	1,076.50	71.42
08 63 13 00-0100 Pyramid Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		



Openings	08	08
Roof Windows and Skylights	08 60	
Metal-Framed Skylights	08 63	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0101 Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0102 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	368.17	95.23
08 63 13 00-0103 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	440.95	95.23
08 63 13 00-0104 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	559.53	107.14
08 63 13 00-0105 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	703.52	119.04
08 63 13 00-0106 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0107 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	500.19	95.23
08 63 13 00-0108 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	576.35	95.23
08 63 13 00-0109 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	683.08	107.14
08 63 13 00-0110 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	816.92	119.04
08 63 13 00-0111 Double Hip Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0112 Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0113 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	430.80	95.23
08 63 13 00-0114 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	571.38	107.14
08 63 13 00-0115 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	676.44	119.04
08 63 13 00-0116 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	535.84	107.14
08 63 13 00-0117 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	571.38	107.14
08 63 13 00-0118 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	696.75	119.04
08 63 13 00-0119 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	820.40	130.94
08 63 13 00-0120 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	625.66	119.04
08 63 13 00-0121 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	676.44	119.04
08 63 13 00-0122 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	756.09	130.94
08 63 13 00-0123 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	830.67	142.85
08 63 13 00-0124 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	981.42	154.75
08 63 13 00-0125 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	776.40	130.94
08 63 13 00-0126 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	881.45	142.85
08 63 13 00-0127 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	933.92	142.85
08 63 13 00-0128 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,079.59	154.75
08 63 13 00-0129 Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small> Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0130 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	488.34	95.23
08 63 13 00-0131 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	549.27	95.23
08 63 13 00-0132 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	696.62	107.14
08 63 13 00-0133 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	561.12	95.23
08 63 13 00-0134 EA 39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	628.92	107.14

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0135 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	661.08	107.14
08 63 13 00-0136 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	696.62	107.14
08 63 13 00-0137 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	803.38	119.04
08 63 13 00-0138 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	662.77	107.14
08 63 13 00-0139 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	732.29	119.04
08 63 13 00-0140 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	783.06	119.04
08 63 13 00-0141 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	859.33	130.94
08 63 13 00-0142 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	935.61	142.85
08 63 13 00-0143 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	786.45	119.04
08 63 13 00-0144 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	871.18	130.94
08 63 13 00-0145 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	955.92	142.85
08 63 13 00-0146 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,001.62	142.85
08 63 13 00-0147 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0148 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	544.19	95.23
08 63 13 00-0149 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	718.62	107.14
08 63 13 00-0150 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	679.70	107.14
08 63 13 00-0151 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	718.62	107.14
08 63 13 00-0152 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	830.46	119.04
08 63 13 00-0153 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	752.60	119.04
08 63 13 00-0154 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	808.45	119.04
08 63 13 00-0155 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	889.80	130.94
08 63 13 00-0156 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	962.69	142.85
08 63 13 00-0157 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	901.64	130.94
08 63 13 00-0158 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	989.77	142.85
08 63 13 00-0159 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,038.85	142.85
08 63 13 00-0160 Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0001)</small>		
08 63 13 00-0161 Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0160)</small>		
Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing.		
08 63 13 00-0162 Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0163 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0164 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,262.53	142.85
08 63 13 00-0165 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,108.51	142.85
08 63 13 00-0166 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,375.93	142.85
08 63 13 00-0167 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0168 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,937.84	142.85
08 63 13 00-0169 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,790.59	142.85



Openings	08
Roof Windows and Skylights	08 60
Metal-Framed Skylights	08 63

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0170	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,091.85	142.85
08 63 13 00-0171			30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0172	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,132.47	142.85
08 63 13 00-0173	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,981.84	142.85
08 63 13 00-0174	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,283.11	142.85
08 63 13 00-0175			Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0176			10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0177	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,272.69	142.85
08 63 13 00-0178	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,118.67	142.85
08 63 13 00-0179	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,391.16	142.85
08 63 13 00-0180			25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0181	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,951.38	142.85
08 63 13 00-0182	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,800.75	142.85
08 63 13 00-0183	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,108.78	142.85
08 63 13 00-0184			30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0185	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,142.63	142.85
08 63 13 00-0186	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	2,992.00	142.85
08 63 13 00-0187	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,300.03	142.85
08 90 Louvers and Vents <small>(08)</small>					
08 91 Louvers <small>(08 90)</small>					
08 91 13 Motorized Wall Louvers <small>(08 91)</small>					
08 91 13 00-0001			Motorized Wall Louver Actuator <small>(08 91 13)</small> See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.		
08 91 13 00-0002	EA		115 Volt Actuator For Adjustable Intake Louver	1,650.96	119.13
08 91 13 00-0003	EA		230 Volt Actuator For Adjustable Intake Louver	2,481.09	119.13
08 91 13 00-0004	EA		24 Volt Actuator For Adjustable Intake Louver	1,769.29	119.13
08 91 13 00-0005	EA		115 Volt Hazardous Location Actuator For Adjustable Intake Louver	6,641.90	119.13
08 91 16 Operable Wall Louvers <small>(08 91)</small>					
08 91 16 00-0001			Adjustable Intake Wall Louvers <small>(08 91 16)</small> See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.		
08 91 16 00-0002	EA		12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum	443.01	31.54
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	37.99	
			<i>For Clear Lacquer Finish, Add</i>	75.99	
			<i>For Baked Enamel Standard Colors, Add</i>	113.98	
			<i>For Anodized Finish, Add</i>	151.98	
			<i>For Kynar® Standard Colors Finish, Add</i>	208.97	
08 91 16 00-0003	EA		12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum	553.17	38.55
			Note: Includes bird screen. Excludes actuator.		
			<i>For Flange Frame, Add</i>	47.61	
			<i>For Clear Lacquer Finish, Add</i>	95.22	
			<i>For Baked Enamel Standard Colors, Add</i>	142.82	
			<i>For Anodized Finish, Add</i>	190.43	
			<i>For Kynar® Standard Colors Finish, Add</i>	261.84	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0004 EA 12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	654.07	45.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	56.30	
For Clear Lacquer Finish, Add	112.59	
For Baked Enamel Standard Colors, Add	168.89	
For Anodized Finish, Add	225.19	
For Kynar® Standard Colors Finish, Add	309.63	
08 91 16 00-0005 EA 12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	765.15	52.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	66.00	
For Clear Lacquer Finish, Add	132.01	
For Baked Enamel Standard Colors, Add	198.01	
For Anodized Finish, Add	264.02	
For Kynar® Standard Colors Finish, Add	363.02	
08 91 16 00-0006 EA 12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	862.36	59.57
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	74.32	
For Clear Lacquer Finish, Add	148.65	
For Baked Enamel Standard Colors, Add	222.97	
For Anodized Finish, Add	297.29	
For Kynar® Standard Colors Finish, Add	408.78	
08 91 16 00-0007 EA 12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,015.97	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	88.28	
For Clear Lacquer Finish, Add	176.56	
For Baked Enamel Standard Colors, Add	264.85	
For Anodized Finish, Add	353.13	
For Kynar® Standard Colors Finish, Add	485.55	
08 91 16 00-0008 EA 12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,156.63	73.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.95	
For Clear Lacquer Finish, Add	201.89	
For Baked Enamel Standard Colors, Add	302.84	
For Anodized Finish, Add	403.79	
For Kynar® Standard Colors Finish, Add	555.21	
08 91 16 00-0009 EA 12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,285.81	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	111.76	
For Clear Lacquer Finish, Add	223.52	
For Baked Enamel Standard Colors, Add	335.29	
For Anodized Finish, Add	447.05	
For Kynar® Standard Colors Finish, Add	614.69	
08 91 16 00-0010 EA 12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,372.85	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	119.07	
For Clear Lacquer Finish, Add	238.13	
For Baked Enamel Standard Colors, Add	357.20	
For Anodized Finish, Add	476.26	
For Kynar® Standard Colors Finish, Add	654.86	
08 91 16 00-0011 EA 12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,481.16	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	128.49	
For Clear Lacquer Finish, Add	256.99	
For Baked Enamel Standard Colors, Add	385.48	
For Anodized Finish, Add	513.98	
For Kynar® Standard Colors Finish, Add	706.72	
08 91 16 00-0012 EA 12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,576.53	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	136.63	
For Clear Lacquer Finish, Add	273.26	
For Baked Enamel Standard Colors, Add	409.89	
For Anodized Finish, Add	546.52	
For Kynar® Standard Colors Finish, Add	751.46	
08 91 16 00-0013 EA 12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,697.78	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	147.35	
For Clear Lacquer Finish, Add	294.71	
For Baked Enamel Standard Colors, Add	442.06	
For Anodized Finish, Add	589.41	
For Kynar® Standard Colors Finish, Add	810.44	
08 91 16 00-0014 EA 12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,814.41	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	157.61	
For Clear Lacquer Finish, Add	315.23	
For Baked Enamel Standard Colors, Add	472.84	
For Anodized Finish, Add	630.46	
For Kynar® Standard Colors Finish, Add	866.88	
08 91 16 00-0015 EA 12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,960.23	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	170.09	
For Clear Lacquer Finish, Add	340.19	
For Baked Enamel Standard Colors, Add	510.28	
For Anodized Finish, Add	680.37	
For Kynar® Standard Colors Finish, Add	935.51	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0016 EA 12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,069.06	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	178.88	
For Clear Lacquer Finish, Add	357.75	
For Baked Enamel Standard Colors, Add	536.63	
For Anodized Finish, Add	715.50	
For Kynar® Standard Colors Finish, Add	983.81	
08 91 16 00-0017 EA 18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	498.63	38.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	42.15	
For Clear Lacquer Finish, Add	84.31	
For Baked Enamel Standard Colors, Add	126.46	
For Anodized Finish, Add	168.62	
For Kynar® Standard Colors Finish, Add	231.85	
08 91 16 00-0018 EA 18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	629.65	49.06
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	53.15	
For Clear Lacquer Finish, Add	106.31	
For Baked Enamel Standard Colors, Add	159.46	
For Anodized Finish, Add	212.62	
For Kynar® Standard Colors Finish, Add	292.35	
08 91 16 00-0019 EA 18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	737.95	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	62.58	
For Clear Lacquer Finish, Add	125.17	
For Baked Enamel Standard Colors, Add	187.75	
For Anodized Finish, Add	250.33	
For Kynar® Standard Colors Finish, Add	344.21	
08 91 16 00-0020 EA 18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	918.51	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.84	
For Clear Lacquer Finish, Add	155.67	
For Baked Enamel Standard Colors, Add	233.51	
For Anodized Finish, Add	311.34	
For Kynar® Standard Colors Finish, Add	428.10	
08 91 16 00-0021 EA 18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,043.46	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	88.93	
For Clear Lacquer Finish, Add	177.86	
For Baked Enamel Standard Colors, Add	266.79	
For Anodized Finish, Add	355.72	
For Kynar® Standard Colors Finish, Add	489.11	
08 91 16 00-0022 EA 18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,168.41	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.02	
For Clear Lacquer Finish, Add	200.04	
For Baked Enamel Standard Colors, Add	300.07	
For Anodized Finish, Add	400.09	
For Kynar® Standard Colors Finish, Add	550.12	
08 91 16 00-0023 EA 18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,317.39	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	113.52	
For Clear Lacquer Finish, Add	227.04	
For Baked Enamel Standard Colors, Add	340.56	
For Anodized Finish, Add	454.08	
For Kynar® Standard Colors Finish, Add	624.35	
08 91 16 00-0024 EA 18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,461.37	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	125.81	
For Clear Lacquer Finish, Add	251.63	
For Baked Enamel Standard Colors, Add	377.44	
For Anodized Finish, Add	503.26	
For Kynar® Standard Colors Finish, Add	691.98	
08 91 16 00-0025 EA 18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,577.60	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	135.34	
For Clear Lacquer Finish, Add	270.67	
For Baked Enamel Standard Colors, Add	406.01	
For Anodized Finish, Add	541.34	
For Kynar® Standard Colors Finish, Add	744.34	
08 91 16 00-0026 EA 18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,687.76	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	144.95	
For Clear Lacquer Finish, Add	289.90	
For Baked Enamel Standard Colors, Add	434.85	
For Anodized Finish, Add	579.80	
For Kynar® Standard Colors Finish, Add	797.22	
08 91 16 00-0027 EA 18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,791.45	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	153.92	
For Clear Lacquer Finish, Add	307.83	
For Baked Enamel Standard Colors, Add	461.75	
For Anodized Finish, Add	615.66	
For Kynar® Standard Colors Finish, Add	846.54	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0028 EA 18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,924.71	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	165.84	
For Clear Lacquer Finish, Add	331.68	
For Baked Enamel Standard Colors, Add	497.52	
For Anodized Finish, Add	663.36	
For Kynar® Standard Colors Finish, Add	912.13	
08 91 16 00-0029 EA 18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,053.35	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	177.30	
For Clear Lacquer Finish, Add	354.61	
For Baked Enamel Standard Colors, Add	531.91	
For Anodized Finish, Add	709.22	
For Kynar® Standard Colors Finish, Add	975.17	
08 91 16 00-0030 EA 18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,211.18	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	190.99	
For Clear Lacquer Finish, Add	381.97	
For Baked Enamel Standard Colors, Add	572.96	
For Anodized Finish, Add	763.94	
For Kynar® Standard Colors Finish, Add	1,050.42	
08 91 16 00-0031 EA 18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,332.05	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	200.97	
For Clear Lacquer Finish, Add	401.94	
For Baked Enamel Standard Colors, Add	602.91	
For Anodized Finish, Add	803.88	
For Kynar® Standard Colors Finish, Add	1,105.33	
08 91 16 00-0032 EA 24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	558.86	45.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	46.78	
For Clear Lacquer Finish, Add	93.55	
For Baked Enamel Standard Colors, Add	140.33	
For Anodized Finish, Add	187.10	
For Kynar® Standard Colors Finish, Add	257.27	
08 91 16 00-0033 EA 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	708.37	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	59.63	
For Clear Lacquer Finish, Add	119.25	
For Baked Enamel Standard Colors, Add	178.88	
For Anodized Finish, Add	238.50	
For Kynar® Standard Colors Finish, Add	327.94	
08 91 16 00-0034 EA 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	876.38	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	74.32	
For Clear Lacquer Finish, Add	148.65	
For Baked Enamel Standard Colors, Add	222.97	
For Anodized Finish, Add	297.29	
For Kynar® Standard Colors Finish, Add	408.78	
08 91 16 00-0035 EA 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,034.76	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	87.36	
For Clear Lacquer Finish, Add	174.72	
For Baked Enamel Standard Colors, Add	262.07	
For Anodized Finish, Add	349.43	
For Kynar® Standard Colors Finish, Add	480.47	
08 91 16 00-0036 EA 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,171.72	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 16 00-0037 EA 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,316.08	94.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 16 00-0038 EA 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,495.18	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	128.49	
For Clear Lacquer Finish, Add	256.99	
For Baked Enamel Standard Colors, Add	385.48	
For Anodized Finish, Add	513.98	
For Kynar® Standard Colors Finish, Add	706.72	
08 91 16 00-0039 EA 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,648.93	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	141.07	
For Clear Lacquer Finish, Add	282.13	
For Baked Enamel Standard Colors, Add	423.20	
For Anodized Finish, Add	564.26	
For Kynar® Standard Colors Finish, Add	775.86	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0040 EA 24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,766.49	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	151.42	
For Clear Lacquer Finish, Add	302.84	
For Baked Enamel Standard Colors, Add	454.26	
For Anodized Finish, Add	605.68	
For Kynar® Standard Colors Finish, Add	832.81	
08 91 16 00-0041 EA 24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,898.05	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	161.77	
For Clear Lacquer Finish, Add	323.55	
For Baked Enamel Standard Colors, Add	485.32	
For Anodized Finish, Add	647.10	
For Kynar® Standard Colors Finish, Add	889.76	
08 91 16 00-0042 EA 24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,017.45	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	172.31	
For Clear Lacquer Finish, Add	344.62	
For Baked Enamel Standard Colors, Add	516.94	
For Anodized Finish, Add	689.25	
For Kynar® Standard Colors Finish, Add	947.72	
08 91 16 00-0043 EA 24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,178.44	154.17
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	187.01	
For Clear Lacquer Finish, Add	374.02	
For Baked Enamel Standard Colors, Add	561.03	
For Anodized Finish, Add	748.04	
For Kynar® Standard Colors Finish, Add	1,028.56	
08 91 16 00-0044 EA 24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,315.41	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	199.31	
For Clear Lacquer Finish, Add	398.61	
For Baked Enamel Standard Colors, Add	597.92	
For Anodized Finish, Add	797.22	
For Kynar® Standard Colors Finish, Add	1,096.18	
08 91 16 00-0045 EA 24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,488.96	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	214.56	
For Clear Lacquer Finish, Add	429.12	
For Baked Enamel Standard Colors, Add	643.67	
For Anodized Finish, Add	858.23	
For Kynar® Standard Colors Finish, Add	1,180.07	
08 91 16 00-0046 EA 24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,618.15	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	225.37	
For Clear Lacquer Finish, Add	450.75	
For Baked Enamel Standard Colors, Add	676.12	
For Anodized Finish, Add	901.50	
For Kynar® Standard Colors Finish, Add	1,239.56	
08 91 16 00-0047 EA 30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	623.71	52.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	51.86	
For Clear Lacquer Finish, Add	103.72	
For Baked Enamel Standard Colors, Add	155.58	
For Anodized Finish, Add	207.44	
For Kynar® Standard Colors Finish, Add	285.23	
08 91 16 00-0048 EA 30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	830.69	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	69.05	
For Clear Lacquer Finish, Add	138.11	
For Baked Enamel Standard Colors, Add	207.16	
For Anodized Finish, Add	276.22	
For Kynar® Standard Colors Finish, Add	379.80	
08 91 16 00-0049 EA 30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	984.84	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	82.37	
For Clear Lacquer Finish, Add	164.73	
For Baked Enamel Standard Colors, Add	247.10	
For Anodized Finish, Add	329.46	
For Kynar® Standard Colors Finish, Add	453.01	
08 91 16 00-0050 EA 30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,152.84	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	97.06	
For Clear Lacquer Finish, Add	194.13	
For Baked Enamel Standard Colors, Add	291.19	
For Anodized Finish, Add	388.26	
For Kynar® Standard Colors Finish, Add	533.85	
08 91 16 00-0051 EA 30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,301.83	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	110.56	
For Clear Lacquer Finish, Add	221.12	
For Baked Enamel Standard Colors, Add	331.68	
For Anodized Finish, Add	442.24	
For Kynar® Standard Colors Finish, Add	608.09	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0052 EA 30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,457.82	108.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	124.06	
For Clear Lacquer Finish, Add	248.11	
For Baked Enamel Standard Colors, Add	372.17	
For Anodized Finish, Add	496.23	
For Kynar® Standard Colors Finish, Add	682.31	
08 91 16 00-0053 EA 30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,641.92	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	141.07	
For Clear Lacquer Finish, Add	282.13	
For Baked Enamel Standard Colors, Add	423.20	
For Anodized Finish, Add	564.26	
For Kynar® Standard Colors Finish, Add	775.86	
08 91 16 00-0054 EA 30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,801.62	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	154.93	
For Clear Lacquer Finish, Add	309.87	
For Baked Enamel Standard Colors, Add	464.80	
For Anodized Finish, Add	619.73	
For Kynar® Standard Colors Finish, Add	852.13	
08 91 16 00-0055 EA 30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,932.10	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	166.58	
For Clear Lacquer Finish, Add	333.16	
For Baked Enamel Standard Colors, Add	499.74	
For Anodized Finish, Add	666.32	
For Kynar® Standard Colors Finish, Add	916.19	
08 91 16 00-0056 EA 30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,078.46	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	178.41	
For Clear Lacquer Finish, Add	356.83	
For Baked Enamel Standard Colors, Add	535.24	
For Anodized Finish, Add	713.65	
For Kynar® Standard Colors Finish, Add	981.27	
08 91 16 00-0057 EA 30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,216.88	157.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	190.15	
For Clear Lacquer Finish, Add	380.31	
For Baked Enamel Standard Colors, Add	570.46	
For Anodized Finish, Add	760.61	
For Kynar® Standard Colors Finish, Add	1,045.84	
08 91 16 00-0058 EA 30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,388.05	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	205.87	
For Clear Lacquer Finish, Add	411.74	
For Baked Enamel Standard Colors, Add	617.60	
For Anodized Finish, Add	823.47	
For Kynar® Standard Colors Finish, Add	1,132.27	
08 91 16 00-0059 EA 30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,537.03	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	219.37	
For Clear Lacquer Finish, Add	438.73	
For Baked Enamel Standard Colors, Add	658.10	
For Anodized Finish, Add	877.46	
For Kynar® Standard Colors Finish, Add	1,206.51	
08 91 16 00-0060 EA 30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,718.91	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	235.45	
For Clear Lacquer Finish, Add	470.90	
For Baked Enamel Standard Colors, Add	706.35	
For Anodized Finish, Add	941.80	
For Kynar® Standard Colors Finish, Add	1,294.98	
08 91 16 00-0061 EA 30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,864.72	192.72
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	247.93	
For Clear Lacquer Finish, Add	495.86	
For Baked Enamel Standard Colors, Add	743.79	
For Anodized Finish, Add	991.72	
For Kynar® Standard Colors Finish, Add	1,363.61	
08 91 16 00-0062 EA 36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	683.95	59.57
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	56.48	
For Clear Lacquer Finish, Add	112.96	
For Baked Enamel Standard Colors, Add	169.45	
For Anodized Finish, Add	225.93	
For Kynar® Standard Colors Finish, Add	310.65	
08 91 16 00-0063 EA 36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	924.21	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.00	
For Clear Lacquer Finish, Add	154.01	
For Baked Enamel Standard Colors, Add	231.01	
For Anodized Finish, Add	308.02	
For Kynar® Standard Colors Finish, Add	423.52	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0064 EA 36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,079.28	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	90.41	
For Clear Lacquer Finish, Add	180.82	
For Baked Enamel Standard Colors, Add	271.22	
For Anodized Finish, Add	361.63	
For Kynar® Standard Colors Finish, Add	497.24	
08 91 16 00-0065 EA 36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,263.00	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	106.68	
For Clear Lacquer Finish, Add	213.36	
For Baked Enamel Standard Colors, Add	320.03	
For Anodized Finish, Add	426.71	
For Kynar® Standard Colors Finish, Add	586.73	
08 91 16 00-0066 EA 36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,432.34	106.52
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	121.93	
For Clear Lacquer Finish, Add	243.86	
For Baked Enamel Standard Colors, Add	365.79	
For Anodized Finish, Add	487.72	
For Kynar® Standard Colors Finish, Add	670.62	
08 91 16 00-0067 EA 36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,592.01	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	136.08	
For Clear Lacquer Finish, Add	272.15	
For Baked Enamel Standard Colors, Add	408.23	
For Anodized Finish, Add	544.30	
For Kynar® Standard Colors Finish, Add	748.41	
08 91 16 00-0068 EA 36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,797.38	122.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	155.21	
For Clear Lacquer Finish, Add	310.42	
For Baked Enamel Standard Colors, Add	465.63	
For Anodized Finish, Add	620.84	
For Kynar® Standard Colors Finish, Add	853.66	
08 91 16 00-0069 EA 36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,976.48	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	171.02	
For Clear Lacquer Finish, Add	342.04	
For Baked Enamel Standard Colors, Add	513.05	
For Anodized Finish, Add	684.07	
For Kynar® Standard Colors Finish, Add	940.60	
08 91 16 00-0070 EA 36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,123.22	143.66
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	183.59	
For Clear Lacquer Finish, Add	367.18	
For Baked Enamel Standard Colors, Add	550.77	
For Anodized Finish, Add	734.36	
For Kynar® Standard Colors Finish, Add	1,009.75	
08 91 16 00-0071 EA 36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,273.66	154.17
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	196.53	
For Clear Lacquer Finish, Add	393.06	
For Baked Enamel Standard Colors, Add	589.60	
For Anodized Finish, Add	786.13	
For Kynar® Standard Colors Finish, Add	1,080.93	
08 91 16 00-0072 EA 36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,428.73	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	209.94	
For Clear Lacquer Finish, Add	419.87	
For Baked Enamel Standard Colors, Add	629.81	
For Anodized Finish, Add	839.74	
For Kynar® Standard Colors Finish, Add	1,154.65	
08 91 16 00-0073 EA 36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,615.60	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	227.22	
For Clear Lacquer Finish, Add	454.44	
For Baked Enamel Standard Colors, Add	681.67	
For Anodized Finish, Add	908.89	
For Kynar® Standard Colors Finish, Add	1,249.72	
08 91 16 00-0074 EA 36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,775.68	178.70
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	241.83	
For Clear Lacquer Finish, Add	483.66	
For Baked Enamel Standard Colors, Add	725.48	
For Anodized Finish, Add	967.31	
For Kynar® Standard Colors Finish, Add	1,330.05	
08 91 16 00-0075 EA 36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,980.67	189.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	260.22	
For Clear Lacquer Finish, Add	520.45	
For Baked Enamel Standard Colors, Add	780.67	
For Anodized Finish, Add	1,040.90	
For Kynar® Standard Colors Finish, Add	1,431.23	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0076	EA	36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,134.81	199.73
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	273.54	
		For Clear Lacquer Finish, Add	547.07	
		For Baked Enamel Standard Colors, Add	820.61	
		For Anodized Finish, Add	1,094.14	
		For Kynar® Standard Colors Finish, Add	1,504.45	
08 91 16 00-0077	EA	42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	782.09	66.58
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	64.89	
		For Clear Lacquer Finish, Add	129.79	
		For Baked Enamel Standard Colors, Add	194.68	
		For Anodized Finish, Add	259.58	
		For Kynar® Standard Colors Finish, Add	356.92	
08 91 16 00-0078	EA	42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	997.39	84.10
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	82.92	
		For Clear Lacquer Finish, Add	165.84	
		For Baked Enamel Standard Colors, Add	248.76	
		For Anodized Finish, Add	331.68	
		For Kynar® Standard Colors Finish, Add	456.06	
08 91 16 00-0079	EA	42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,169.10	94.60
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	97.99	
		For Clear Lacquer Finish, Add	195.98	
		For Baked Enamel Standard Colors, Add	293.97	
		For Anodized Finish, Add	391.96	
		For Kynar® Standard Colors Finish, Add	538.94	
08 91 16 00-0080	EA	42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,366.30	108.62
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	114.91	
		For Clear Lacquer Finish, Add	229.81	
		For Baked Enamel Standard Colors, Add	344.72	
		For Anodized Finish, Add	459.62	
		For Kynar® Standard Colors Finish, Add	631.98	
08 91 16 00-0081	EA	42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,545.79	115.63
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	131.45	
		For Clear Lacquer Finish, Add	262.91	
		For Baked Enamel Standard Colors, Add	394.36	
		For Anodized Finish, Add	525.81	
		For Kynar® Standard Colors Finish, Add	722.99	
08 91 16 00-0082	EA	42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,716.03	122.63
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	147.08	
		For Clear Lacquer Finish, Add	294.15	
		For Baked Enamel Standard Colors, Add	441.23	
		For Anodized Finish, Add	588.30	
		For Kynar® Standard Colors Finish, Add	808.91	
08 91 16 00-0083	EA	42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,938.97	129.64
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	167.97	
		For Clear Lacquer Finish, Add	335.93	
		For Baked Enamel Standard Colors, Add	503.90	
		For Anodized Finish, Add	671.87	
		For Kynar® Standard Colors Finish, Add	923.82	
08 91 16 00-0084	EA	42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,120.83	140.15
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	184.05	
		For Clear Lacquer Finish, Add	368.10	
		For Baked Enamel Standard Colors, Add	552.16	
		For Anodized Finish, Add	736.21	
		For Kynar® Standard Colors Finish, Add	1,012.29	
08 91 16 00-0085	EA	42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,285.14	150.67
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	198.38	
		For Clear Lacquer Finish, Add	396.76	
		For Baked Enamel Standard Colors, Add	595.14	
		For Anodized Finish, Add	793.52	
		For Kynar® Standard Colors Finish, Add	1,091.10	
08 91 16 00-0086	EA	42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,439.28	161.18
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	211.69	
		For Clear Lacquer Finish, Add	423.38	
		For Baked Enamel Standard Colors, Add	635.08	
		For Anodized Finish, Add	846.77	
		For Kynar® Standard Colors Finish, Add	1,164.31	
08 91 16 00-0087	EA	42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,607.28	171.69
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	226.39	
		For Clear Lacquer Finish, Add	452.78	
		For Baked Enamel Standard Colors, Add	679.17	
		For Anodized Finish, Add	905.56	
		For Kynar® Standard Colors Finish, Add	1,245.15	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0088 EA 42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,808.04	178.70
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	245.06	
For Clear Lacquer Finish, Add	490.13	
For Baked Enamel Standard Colors, Add	735.19	
For Anodized Finish, Add	980.26	
For Kynar® Standard Colors Finish, Add	1,347.85	
08 91 16 00-0089 EA 42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,982.91	185.71
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	261.15	
For Clear Lacquer Finish, Add	522.30	
For Baked Enamel Standard Colors, Add	783.45	
For Anodized Finish, Add	1,044.60	
For Kynar® Standard Colors Finish, Add	1,436.32	
08 91 16 00-0090 EA 42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,211.92	196.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	281.95	
For Clear Lacquer Finish, Add	563.90	
For Baked Enamel Standard Colors, Add	845.84	
For Anodized Finish, Add	1,127.79	
For Kynar® Standard Colors Finish, Add	1,550.71	
08 91 16 00-0091 EA 42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,372.54	206.73
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	295.91	
For Clear Lacquer Finish, Add	591.81	
For Baked Enamel Standard Colors, Add	887.72	
For Anodized Finish, Add	1,183.63	
For Kynar® Standard Colors Finish, Add	1,627.49	
08 91 16 00-0092 EA 48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	846.95	73.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	69.98	
For Clear Lacquer Finish, Add	139.96	
For Baked Enamel Standard Colors, Add	209.94	
For Anodized Finish, Add	279.92	
For Kynar® Standard Colors Finish, Add	384.88	
08 91 16 00-0093 EA 48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,075.19	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	89.30	
For Clear Lacquer Finish, Add	178.60	
For Baked Enamel Standard Colors, Add	267.90	
For Anodized Finish, Add	357.20	
For Kynar® Standard Colors Finish, Add	491.14	
08 91 16 00-0094 EA 48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,271.47	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	106.12	
For Clear Lacquer Finish, Add	212.25	
For Baked Enamel Standard Colors, Add	318.37	
For Anodized Finish, Add	424.49	
For Kynar® Standard Colors Finish, Add	583.68	
08 91 16 00-0095 EA 48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,471.83	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	124.06	
For Clear Lacquer Finish, Add	248.11	
For Baked Enamel Standard Colors, Add	372.17	
For Anodized Finish, Add	496.23	
For Kynar® Standard Colors Finish, Add	682.31	
08 91 16 00-0096 EA 48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,669.81	122.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	142.45	
For Clear Lacquer Finish, Add	284.91	
For Baked Enamel Standard Colors, Add	427.36	
For Anodized Finish, Add	569.81	
For Kynar® Standard Colors Finish, Add	783.49	
08 91 16 00-0097 EA 48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,861.32	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	160.20	
For Clear Lacquer Finish, Add	320.40	
For Baked Enamel Standard Colors, Add	480.61	
For Anodized Finish, Add	640.81	
For Kynar® Standard Colors Finish, Add	881.11	
08 91 16 00-0098 EA 48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,100.49	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	182.02	
For Clear Lacquer Finish, Add	364.04	
For Baked Enamel Standard Colors, Add	546.05	
For Anodized Finish, Add	728.07	
For Kynar® Standard Colors Finish, Add	1,001.10	
08 91 16 00-0099 EA 48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,299.00	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	199.77	
For Clear Lacquer Finish, Add	399.53	
For Baked Enamel Standard Colors, Add	599.30	
For Anodized Finish, Add	799.07	
For Kynar® Standard Colors Finish, Add	1,098.72	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0100 EA 48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,471.64	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	214.93	
For Clear Lacquer Finish, Add	429.86	
For Baked Enamel Standard Colors, Add	644.78	
For Anodized Finish, Add	859.71	
For Kynar® Standard Colors Finish, Add	1,182.10	
08 91 16 00-0101 EA 48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,647.03	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	230.37	
For Clear Lacquer Finish, Add	460.73	
For Baked Enamel Standard Colors, Add	691.10	
For Anodized Finish, Add	921.46	
For Kynar® Standard Colors Finish, Add	1,267.01	
08 91 16 00-0102 EA 48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,818.75	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	245.43	
For Clear Lacquer Finish, Add	490.87	
For Baked Enamel Standard Colors, Add	736.30	
For Anodized Finish, Add	981.74	
For Kynar® Standard Colors Finish, Add	1,349.89	
08 91 16 00-0103 EA 48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,045.38	189.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	266.70	
For Clear Lacquer Finish, Add	533.39	
For Baked Enamel Standard Colors, Add	800.09	
For Anodized Finish, Add	1,066.78	
For Kynar® Standard Colors Finish, Add	1,466.82	
08 91 16 00-0104 EA 48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,234.11	196.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	284.17	
For Clear Lacquer Finish, Add	568.33	
For Baked Enamel Standard Colors, Add	852.50	
For Anodized Finish, Add	1,136.67	
For Kynar® Standard Colors Finish, Add	1,562.92	
08 91 16 00-0105 EA 48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,466.29	203.23
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	305.98	
For Clear Lacquer Finish, Add	611.97	
For Baked Enamel Standard Colors, Add	917.95	
For Anodized Finish, Add	1,223.93	
For Kynar® Standard Colors Finish, Add	1,682.91	
08 91 16 00-0106 EA 48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,642.61	213.74
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	321.51	
For Clear Lacquer Finish, Add	643.03	
For Baked Enamel Standard Colors, Add	964.54	
For Anodized Finish, Add	1,286.05	
For Kynar® Standard Colors Finish, Add	1,768.32	
08 91 16 00-0107 EA 54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	982.60	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	81.44	
For Clear Lacquer Finish, Add	162.88	
For Baked Enamel Standard Colors, Add	244.32	
For Anodized Finish, Add	325.76	
For Kynar® Standard Colors Finish, Add	447.93	
08 91 16 00-0108 EA 54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,257.07	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.38	
For Clear Lacquer Finish, Add	210.77	
For Baked Enamel Standard Colors, Add	316.15	
For Anodized Finish, Add	421.54	
For Kynar® Standard Colors Finish, Add	579.61	
08 91 16 00-0109 EA 54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,473.30	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	123.50	
For Clear Lacquer Finish, Add	247.01	
For Baked Enamel Standard Colors, Add	370.51	
For Anodized Finish, Add	494.01	
For Kynar® Standard Colors Finish, Add	679.27	
08 91 16 00-0110 EA 54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,687.91	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	143.56	
For Clear Lacquer Finish, Add	287.12	
For Baked Enamel Standard Colors, Add	430.69	
For Anodized Finish, Add	574.25	
For Kynar® Standard Colors Finish, Add	789.59	
08 91 16 00-0111 EA 54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,921.01	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	165.47	
For Clear Lacquer Finish, Add	330.94	
For Baked Enamel Standard Colors, Add	496.41	
For Anodized Finish, Add	661.88	
For Kynar® Standard Colors Finish, Add	910.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0112	EA		54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,130.07	140.15
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	184.98	
			For Clear Lacquer Finish, Add	369.95	
			For Baked Enamel Standard Colors, Add	554.93	
			For Anodized Finish, Add	739.90	
			For Kynar® Standard Colors Finish, Add	1,017.37	
08 91 16 00-0113	EA		54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,407.16	150.67
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	210.58	
			For Clear Lacquer Finish, Add	421.17	
			For Baked Enamel Standard Colors, Add	631.75	
			For Anodized Finish, Add	842.33	
			For Kynar® Standard Colors Finish, Add	1,158.21	
08 91 16 00-0114	EA		54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,676.86	161.18
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	235.45	
			For Clear Lacquer Finish, Add	470.90	
			For Baked Enamel Standard Colors, Add	706.35	
			For Anodized Finish, Add	941.80	
			For Kynar® Standard Colors Finish, Add	1,294.98	
08 91 16 00-0115	EA		54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,879.99	171.69
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	253.66	
			For Clear Lacquer Finish, Add	507.32	
			For Baked Enamel Standard Colors, Add	760.98	
			For Anodized Finish, Add	1,014.64	
			For Kynar® Standard Colors Finish, Add	1,395.14	
08 91 16 00-0116	EA		54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,080.36	182.20
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	271.60	
			For Clear Lacquer Finish, Add	543.19	
			For Baked Enamel Standard Colors, Add	814.79	
			For Anodized Finish, Add	1,086.38	
			For Kynar® Standard Colors Finish, Add	1,493.77	
08 91 16 00-0117	EA		54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,271.86	189.21
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	289.34	
			For Clear Lacquer Finish, Add	578.69	
			For Baked Enamel Standard Colors, Add	868.03	
			For Anodized Finish, Add	1,157.37	
			For Kynar® Standard Colors Finish, Add	1,591.39	
08 91 16 00-0118	EA		54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,524.38	196.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	313.19	
			For Clear Lacquer Finish, Add	626.39	
			For Baked Enamel Standard Colors, Add	939.58	
			For Anodized Finish, Add	1,252.78	
			For Kynar® Standard Colors Finish, Add	1,722.57	
08 91 16 00-0119	EA		54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,735.30	203.23
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	332.88	
			For Clear Lacquer Finish, Add	665.77	
			For Baked Enamel Standard Colors, Add	998.65	
			For Anodized Finish, Add	1,331.54	
			For Kynar® Standard Colors Finish, Add	1,830.86	
08 91 16 00-0120	EA		54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	4,006.31	210.24
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	358.58	
			For Clear Lacquer Finish, Add	717.17	
			For Baked Enamel Standard Colors, Add	1,075.75	
			For Anodized Finish, Add	1,434.33	
			For Kynar® Standard Colors Finish, Add	1,972.21	
08 91 16 00-0121	EA		54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,211.28	220.75
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	376.98	
			For Clear Lacquer Finish, Add	753.96	
			For Baked Enamel Standard Colors, Add	1,130.93	
			For Anodized Finish, Add	1,507.91	
			For Kynar® Standard Colors Finish, Add	2,073.38	
08 91 16 00-0122	EA		60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	1,043.76	91.10
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	86.16	
			For Clear Lacquer Finish, Add	172.31	
			For Baked Enamel Standard Colors, Add	258.47	
			For Anodized Finish, Add	344.62	
			For Kynar® Standard Colors Finish, Add	473.86	
08 91 16 00-0123	EA		60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,341.87	112.12
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	111.76	
			For Clear Lacquer Finish, Add	223.52	
			For Baked Enamel Standard Colors, Add	335.29	
			For Anodized Finish, Add	447.05	
			For Kynar® Standard Colors Finish, Add	614.69	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	16 00-0124	EA	60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,561.27	126.14
			<i>For Flange Frame, Add</i>	130.90	
			<i>For Clear Lacquer Finish, Add</i>	261.80	
			<i>For Baked Enamel Standard Colors, Add</i>	392.69	
			<i>For Anodized Finish, Add</i>	523.59	
			<i>For Kynar® Standard Colors Finish, Add</i>	719.94	
08 91	16 00-0125	EA	60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,797.14	133.15
			<i>For Flange Frame, Add</i>	153.08	
			<i>For Clear Lacquer Finish, Add</i>	306.17	
			<i>For Baked Enamel Standard Colors, Add</i>	459.25	
			<i>For Anodized Finish, Add</i>	612.34	
			<i>For Kynar® Standard Colors Finish, Add</i>	841.96	
08 91	16 00-0126	EA	60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,045.57	143.66
			<i>For Flange Frame, Add</i>	175.83	
			<i>For Clear Lacquer Finish, Add</i>	351.65	
			<i>For Baked Enamel Standard Colors, Add</i>	527.48	
			<i>For Anodized Finish, Add</i>	703.30	
			<i>For Kynar® Standard Colors Finish, Add</i>	967.04	
08 91	16 00-0127	EA	60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,266.65	150.67
			<i>For Flange Frame, Add</i>	196.53	
			<i>For Clear Lacquer Finish, Add</i>	393.06	
			<i>For Baked Enamel Standard Colors, Add</i>	589.60	
			<i>For Anodized Finish, Add</i>	786.13	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,080.93	
08 91	16 00-0128	EA	60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,563.15	161.18
			<i>For Flange Frame, Add</i>	224.08	
			<i>For Clear Lacquer Finish, Add</i>	448.16	
			<i>For Baked Enamel Standard Colors, Add</i>	672.24	
			<i>For Anodized Finish, Add</i>	896.32	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,232.43	
08 91	16 00-0129	EA	60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,840.24	171.69
			<i>For Flange Frame, Add</i>	249.69	
			<i>For Clear Lacquer Finish, Add</i>	499.37	
			<i>For Baked Enamel Standard Colors, Add</i>	749.06	
			<i>For Anodized Finish, Add</i>	998.74	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,373.27	
08 91	16 00-0130	EA	60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,057.25	182.20
			<i>For Flange Frame, Add</i>	269.28	
			<i>For Clear Lacquer Finish, Add</i>	538.57	
			<i>For Baked Enamel Standard Colors, Add</i>	807.85	
			<i>For Anodized Finish, Add</i>	1,077.14	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,481.06	
08 91	16 00-0131	EA	60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,270.54	192.72
			<i>For Flange Frame, Add</i>	288.51	
			<i>For Clear Lacquer Finish, Add</i>	577.02	
			<i>For Baked Enamel Standard Colors, Add</i>	865.53	
			<i>For Anodized Finish, Add</i>	1,154.04	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,586.81	
08 91	16 00-0132	EA	60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,474.07	199.73
			<i>For Flange Frame, Add</i>	307.46	
			<i>For Clear Lacquer Finish, Add</i>	614.92	
			<i>For Baked Enamel Standard Colors, Add</i>	922.39	
			<i>For Anodized Finish, Add</i>	1,229.85	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,691.04	
08 91	16 00-0133	EA	60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,747.85	206.73
			<i>For Flange Frame, Add</i>	333.44	
			<i>For Clear Lacquer Finish, Add</i>	666.88	
			<i>For Baked Enamel Standard Colors, Add</i>	1,000.31	
			<i>For Anodized Finish, Add</i>	1,333.75	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,833.91	
08 91	16 00-0134	EA	60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,968.93	213.74
			<i>For Flange Frame, Add</i>	354.15	
			<i>For Clear Lacquer Finish, Add</i>	708.29	
			<i>For Baked Enamel Standard Colors, Add</i>	1,062.44	
			<i>For Anodized Finish, Add</i>	1,416.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,947.80	
08 91	16 00-0135	EA	60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	4,253.81	220.75
			<i>For Flange Frame, Add</i>	381.23	
			<i>For Clear Lacquer Finish, Add</i>	762.46	
			<i>For Baked Enamel Standard Colors, Add</i>	1,143.69	
			<i>For Anodized Finish, Add</i>	1,524.92	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,096.77	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0136	EA		60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,463.80	227.76
			<i>For Flange Frame, Add</i>	400.83	
			<i>For Clear Lacquer Finish, Add</i>	801.66	
			<i>For Baked Enamel Standard Colors, Add</i>	1,202.49	
			<i>For Anodized Finish, Add</i>	1,603.32	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,204.56	
08 91 16 00-0137			Adjustable Intake Wall Louvers Operators <small>(08 91 16)</small>		
08 91 16 00-0138	EA		5' Chain Actuator For Adjustable Intake Louver.....	269.75	35.04
08 91 16 00-0139	EA		Panel Crank For Adjustable Intake Louver.....	562.34	14.02
08 91 19			Fixed Louvers <small>(08 91)</small>		
08 91 19 00-0001			Fixed Intake Wall Louvers <small>(08 91 19)</small>		
08 91 19 00-0002	EA		12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	342.24	31.54
			<i>For Flange Frame, Add</i>	27.92	
			<i>For Clear Lacquer Finish, Add</i>	55.83	
			<i>For Baked Enamel Standard Colors, Add</i>	83.75	
			<i>For Anodized Finish, Add</i>	111.67	
			<i>For Kynar® Standard Colors Finish, Add</i>	153.54	
08 91 19 00-0003	EA		12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	407.11	38.55
			<i>For Flange Frame, Add</i>	33.00	
			<i>For Clear Lacquer Finish, Add</i>	66.00	
			<i>For Baked Enamel Standard Colors, Add</i>	99.01	
			<i>For Anodized Finish, Add</i>	132.01	
			<i>For Kynar® Standard Colors Finish, Add</i>	181.51	
08 91 19 00-0004	EA		12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	472.89	45.55
			<i>For Flange Frame, Add</i>	38.18	
			<i>For Clear Lacquer Finish, Add</i>	76.36	
			<i>For Baked Enamel Standard Colors, Add</i>	114.54	
			<i>For Anodized Finish, Add</i>	152.72	
			<i>For Kynar® Standard Colors Finish, Add</i>	209.98	
08 91 19 00-0005	EA		12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	554.38	52.56
			<i>For Flange Frame, Add</i>	44.93	
			<i>For Clear Lacquer Finish, Add</i>	89.85	
			<i>For Baked Enamel Standard Colors, Add</i>	134.78	
			<i>For Anodized Finish, Add</i>	179.71	
			<i>For Kynar® Standard Colors Finish, Add</i>	247.10	
08 91 19 00-0006	EA		12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	623.86	59.57
			<i>For Flange Frame, Add</i>	50.47	
			<i>For Clear Lacquer Finish, Add</i>	100.95	
			<i>For Baked Enamel Standard Colors, Add</i>	151.42	
			<i>For Anodized Finish, Add</i>	201.89	
			<i>For Kynar® Standard Colors Finish, Add</i>	277.60	
08 91 19 00-0007	EA		12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	734.02	66.58
			<i>For Flange Frame, Add</i>	60.09	
			<i>For Clear Lacquer Finish, Add</i>	120.17	
			<i>For Baked Enamel Standard Colors, Add</i>	180.26	
			<i>For Anodized Finish, Add</i>	240.35	
			<i>For Kynar® Standard Colors Finish, Add</i>	330.48	
08 91 19 00-0008	EA		12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	796.10	73.59
			<i>For Flange Frame, Add</i>	64.89	
			<i>For Clear Lacquer Finish, Add</i>	129.79	
			<i>For Baked Enamel Standard Colors, Add</i>	194.68	
			<i>For Anodized Finish, Add</i>	259.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	356.92	
08 91 19 00-0009	EA		12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	891.09	84.10
			<i>For Flange Frame, Add</i>	72.29	
			<i>For Clear Lacquer Finish, Add</i>	144.58	
			<i>For Baked Enamel Standard Colors, Add</i>	216.87	
			<i>For Anodized Finish, Add</i>	289.16	
			<i>For Kynar® Standard Colors Finish, Add</i>	397.60	
08 91 19 00-0010	EA		12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	948.54	91.10
			<i>For Flange Frame, Add</i>	76.63	
			<i>For Clear Lacquer Finish, Add</i>	153.27	
			<i>For Baked Enamel Standard Colors, Add</i>	229.90	
			<i>For Anodized Finish, Add</i>	306.54	
			<i>For Kynar® Standard Colors Finish, Add</i>	421.49	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0011 EA 12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,025.42	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	82.92	
For Clear Lacquer Finish, Add	165.84	
For Baked Enamel Standard Colors, Add	248.76	
For Anodized Finish, Add	331.68	
For Kynar® Standard Colors Finish, Add	456.06	
08 91 19 00-0012 EA 12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,093.06	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	88.28	
For Clear Lacquer Finish, Add	176.56	
For Baked Enamel Standard Colors, Add	264.85	
For Anodized Finish, Add	353.13	
For Kynar® Standard Colors Finish, Add	485.55	
08 91 19 00-0013 EA 12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,172.70	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	94.85	
For Clear Lacquer Finish, Add	189.69	
For Baked Enamel Standard Colors, Add	284.54	
For Anodized Finish, Add	379.38	
For Kynar® Standard Colors Finish, Add	521.65	
08 91 19 00-0014 EA 12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,247.74	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.95	
For Clear Lacquer Finish, Add	201.89	
For Baked Enamel Standard Colors, Add	302.84	
For Anodized Finish, Add	403.79	
For Kynar® Standard Colors Finish, Add	555.21	
08 91 19 00-0015 EA 12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,316.84	129.64
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.75	
For Clear Lacquer Finish, Add	211.51	
For Baked Enamel Standard Colors, Add	317.26	
For Anodized Finish, Add	423.02	
For Kynar® Standard Colors Finish, Add	581.65	
08 91 19 00-0016 EA 12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,407.18	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 19 00-0017 EA 18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	398.79	38.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	32.17	
For Clear Lacquer Finish, Add	64.34	
For Baked Enamel Standard Colors, Add	96.51	
For Anodized Finish, Add	128.68	
For Kynar® Standard Colors Finish, Add	176.94	
08 91 19 00-0018 EA 18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	479.90	49.06
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	38.18	
For Clear Lacquer Finish, Add	76.36	
For Baked Enamel Standard Colors, Add	114.54	
For Anodized Finish, Add	152.72	
For Kynar® Standard Colors Finish, Add	209.98	
08 91 19 00-0019 EA 18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	555.84	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	44.37	
For Clear Lacquer Finish, Add	88.74	
For Baked Enamel Standard Colors, Add	133.12	
For Anodized Finish, Add	177.49	
For Kynar® Standard Colors Finish, Add	244.05	
08 91 19 00-0020 EA 18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	696.65	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	55.65	
For Clear Lacquer Finish, Add	111.30	
For Baked Enamel Standard Colors, Add	166.95	
For Anodized Finish, Add	222.60	
For Kynar® Standard Colors Finish, Add	306.08	
08 91 19 00-0021 EA 18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	797.57	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0022 EA 18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	887.39	84.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	71.92	
For Clear Lacquer Finish, Add	143.84	
For Baked Enamel Standard Colors, Add	215.76	
For Anodized Finish, Add	287.68	
For Kynar® Standard Colors Finish, Add	395.56	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0023 EA 18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	952.24	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	77.00	
For Clear Lacquer Finish, Add	154.01	
For Baked Enamel Standard Colors, Add	231.01	
For Anodized Finish, Add	308.02	
For Kynar® Standard Colors Finish, Add	423.52	
08 91 19 00-0024 EA 18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,060.17	101.61
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	85.69	
For Clear Lacquer Finish, Add	171.39	
For Baked Enamel Standard Colors, Add	257.08	
For Anodized Finish, Add	342.78	
For Kynar® Standard Colors Finish, Add	471.32	
08 91 19 00-0025 EA 18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,137.58	112.12
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	91.33	
For Clear Lacquer Finish, Add	182.67	
For Baked Enamel Standard Colors, Add	274.00	
For Anodized Finish, Add	365.33	
For Kynar® Standard Colors Finish, Add	502.33	
08 91 19 00-0026 EA 18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,234.79	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0027 EA 18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,309.83	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.75	
For Clear Lacquer Finish, Add	211.51	
For Baked Enamel Standard Colors, Add	317.26	
For Anodized Finish, Add	423.02	
For Kynar® Standard Colors Finish, Add	581.65	
08 91 19 00-0028 EA 18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,393.17	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.69	
For Clear Lacquer Finish, Add	225.37	
For Baked Enamel Standard Colors, Add	338.06	
For Anodized Finish, Add	450.75	
For Kynar® Standard Colors Finish, Add	619.78	
08 91 19 00-0029 EA 18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,480.21	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	119.99	
For Clear Lacquer Finish, Add	239.98	
For Baked Enamel Standard Colors, Add	359.97	
For Anodized Finish, Add	479.96	
For Kynar® Standard Colors Finish, Add	659.95	
08 91 19 00-0030 EA 18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,559.47	150.67
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	125.81	
For Clear Lacquer Finish, Add	251.63	
For Baked Enamel Standard Colors, Add	377.44	
For Anodized Finish, Add	503.26	
For Kynar® Standard Colors Finish, Add	691.98	
08 91 19 00-0031 EA 18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,667.39	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	134.50	
For Clear Lacquer Finish, Add	269.01	
For Baked Enamel Standard Colors, Add	403.51	
For Anodized Finish, Add	538.01	
For Kynar® Standard Colors Finish, Add	739.77	
08 91 19 00-0032 EA 24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	461.79	45.55
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	37.07	
For Clear Lacquer Finish, Add	74.14	
For Baked Enamel Standard Colors, Add	111.21	
For Anodized Finish, Add	148.28	
For Kynar® Standard Colors Finish, Add	203.88	
08 91 19 00-0033 EA 24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	551.22	56.07
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	43.91	
For Clear Lacquer Finish, Add	87.82	
For Baked Enamel Standard Colors, Add	131.73	
For Anodized Finish, Add	175.64	
For Kynar® Standard Colors Finish, Add	241.51	
08 91 19 00-0034 EA 24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	681.33	66.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	54.82	
For Clear Lacquer Finish, Add	109.64	
For Baked Enamel Standard Colors, Add	164.45	
For Anodized Finish, Add	219.27	
For Kynar® Standard Colors Finish, Add	301.50	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0035 EA 24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	804.58	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0036 EA 24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	918.43	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	74.32	
For Clear Lacquer Finish, Add	148.65	
For Baked Enamel Standard Colors, Add	222.97	
For Anodized Finish, Add	297.29	
For Kynar® Standard Colors Finish, Add	408.78	
08 91 19 00-0037 EA 24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,023.96	94.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	83.48	
For Clear Lacquer Finish, Add	166.95	
For Baked Enamel Standard Colors, Add	250.43	
For Anodized Finish, Add	333.90	
For Kynar® Standard Colors Finish, Add	459.11	
08 91 19 00-0038 EA 24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,114.32	105.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	90.41	
For Clear Lacquer Finish, Add	180.82	
For Baked Enamel Standard Colors, Add	271.22	
For Anodized Finish, Add	361.63	
For Kynar® Standard Colors Finish, Add	497.24	
08 91 19 00-0039 EA 24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,234.79	119.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0040 EA 24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,313.52	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	106.12	
For Clear Lacquer Finish, Add	212.25	
For Baked Enamel Standard Colors, Add	318.37	
For Anodized Finish, Add	424.49	
For Kynar® Standard Colors Finish, Add	583.68	
08 91 19 00-0041 EA 24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,444.15	140.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	116.38	
For Clear Lacquer Finish, Add	232.77	
For Baked Enamel Standard Colors, Add	349.15	
For Anodized Finish, Add	465.54	
For Kynar® Standard Colors Finish, Add	640.11	
08 91 19 00-0042 EA 24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,525.66	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	123.13	
For Clear Lacquer Finish, Add	246.27	
For Baked Enamel Standard Colors, Add	369.40	
For Anodized Finish, Add	492.53	
For Kynar® Standard Colors Finish, Add	677.23	
08 91 19 00-0043 EA 24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,630.26	154.17
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	132.19	
For Clear Lacquer Finish, Add	264.38	
For Baked Enamel Standard Colors, Add	396.58	
For Anodized Finish, Add	528.77	
For Kynar® Standard Colors Finish, Add	727.06	
08 91 19 00-0044 EA 24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,733.02	161.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	141.07	
For Clear Lacquer Finish, Add	282.13	
For Baked Enamel Standard Colors, Add	423.20	
For Anodized Finish, Add	564.26	
For Kynar® Standard Colors Finish, Add	775.86	
08 91 19 00-0045 EA 24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,814.13	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	147.08	
For Clear Lacquer Finish, Add	294.15	
For Baked Enamel Standard Colors, Add	441.23	
For Anodized Finish, Add	588.30	
For Kynar® Standard Colors Finish, Add	808.91	
08 91 19 00-0046 EA 24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,944.24	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	157.98	
For Clear Lacquer Finish, Add	315.97	
For Baked Enamel Standard Colors, Add	473.95	
For Anodized Finish, Add	631.93	
For Kynar® Standard Colors Finish, Add	868.91	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0047 EA 30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	518.33	52.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	41.32	
For Clear Lacquer Finish, Add	82.64	
For Baked Enamel Standard Colors, Add	123.97	
For Anodized Finish, Add	165.29	
For Kynar® Standard Colors Finish, Add	227.27	
08 91 19 00-0048 EA 30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	671.69	70.08
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	53.15	
For Clear Lacquer Finish, Add	106.31	
For Baked Enamel Standard Colors, Add	159.46	
For Anodized Finish, Add	212.62	
For Kynar® Standard Colors Finish, Add	292.35	
08 91 19 00-0049 EA 30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	783.31	80.59
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	62.21	
For Clear Lacquer Finish, Add	124.43	
For Baked Enamel Standard Colors, Add	186.64	
For Anodized Finish, Add	248.85	
For Kynar® Standard Colors Finish, Add	342.17	
08 91 19 00-0050 EA 30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	912.49	91.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	73.03	
For Clear Lacquer Finish, Add	146.06	
For Baked Enamel Standard Colors, Add	219.09	
For Anodized Finish, Add	292.12	
For Kynar® Standard Colors Finish, Add	401.66	
08 91 19 00-0051 EA 30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,048.54	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	85.23	
For Clear Lacquer Finish, Add	170.46	
For Baked Enamel Standard Colors, Add	255.70	
For Anodized Finish, Add	340.93	
For Kynar® Standard Colors Finish, Add	468.78	
08 91 19 00-0052 EA 30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,165.70	108.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	94.85	
For Clear Lacquer Finish, Add	189.69	
For Baked Enamel Standard Colors, Add	284.54	
For Anodized Finish, Add	379.38	
For Kynar® Standard Colors Finish, Add	521.65	
08 91 19 00-0053 EA 30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,252.74	115.63
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	102.15	
For Clear Lacquer Finish, Add	204.30	
For Baked Enamel Standard Colors, Add	306.44	
For Anodized Finish, Add	408.59	
For Kynar® Standard Colors Finish, Add	561.81	
08 91 19 00-0054 EA 30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,375.46	126.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	112.32	
For Clear Lacquer Finish, Add	224.63	
For Baked Enamel Standard Colors, Add	336.95	
For Anodized Finish, Add	449.27	
For Kynar® Standard Colors Finish, Add	617.74	
08 91 19 00-0055 EA 30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,472.67	133.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	120.64	
For Clear Lacquer Finish, Add	241.27	
For Baked Enamel Standard Colors, Add	361.91	
For Anodized Finish, Add	482.55	
For Kynar® Standard Colors Finish, Add	663.50	
08 91 19 00-0056 EA 30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,622.72	147.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	132.84	
For Clear Lacquer Finish, Add	265.68	
For Baked Enamel Standard Colors, Add	398.52	
For Anodized Finish, Add	531.36	
For Kynar® Standard Colors Finish, Add	730.61	
08 91 19 00-0057 EA 30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,719.54	157.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	140.42	
For Clear Lacquer Finish, Add	280.84	
For Baked Enamel Standard Colors, Add	421.26	
For Anodized Finish, Add	561.68	
For Kynar® Standard Colors Finish, Add	772.30	
08 91 19 00-0058 EA 30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,830.63	164.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	150.13	
For Clear Lacquer Finish, Add	300.25	
For Baked Enamel Standard Colors, Add	450.38	
For Anodized Finish, Add	600.50	
For Kynar® Standard Colors Finish, Add	825.69	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0059 EA 30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,940.78	171.69
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	159.74	
For Clear Lacquer Finish, Add	319.48	
For Baked Enamel Standard Colors, Add	479.22	
For Anodized Finish, Add	638.96	
For Kynar® Standard Colors Finish, Add	878.57	
08 91 19 00-0060 EA 30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,035.76	182.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	167.14	
For Clear Lacquer Finish, Add	334.27	
For Baked Enamel Standard Colors, Add	501.41	
For Anodized Finish, Add	668.54	
For Kynar® Standard Colors Finish, Add	919.24	
08 91 19 00-0061 EA 30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,182.50	192.72
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	179.71	
For Clear Lacquer Finish, Add	359.41	
For Baked Enamel Standard Colors, Add	539.12	
For Anodized Finish, Add	718.83	
For Kynar® Standard Colors Finish, Add	988.39	
08 91 19 00-0062 EA 36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	575.79	59.57
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	45.67	
For Clear Lacquer Finish, Add	91.33	
For Baked Enamel Standard Colors, Add	137.00	
For Anodized Finish, Add	182.66	
For Kynar® Standard Colors Finish, Add	251.16	
08 91 19 00-0063 EA 36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	755.04	77.09
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	60.09	
For Clear Lacquer Finish, Add	120.17	
For Baked Enamel Standard Colors, Add	180.26	
For Anodized Finish, Add	240.35	
For Kynar® Standard Colors Finish, Add	330.48	
08 91 19 00-0064 EA 36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	872.21	87.60
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	69.70	
For Clear Lacquer Finish, Add	139.40	
For Baked Enamel Standard Colors, Add	209.10	
For Anodized Finish, Add	278.80	
For Kynar® Standard Colors Finish, Add	383.36	
08 91 19 00-0065 EA 36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,010.63	98.11
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	81.44	
For Clear Lacquer Finish, Add	162.88	
For Baked Enamel Standard Colors, Add	244.32	
For Anodized Finish, Add	325.76	
For Kynar® Standard Colors Finish, Add	447.93	
08 91 19 00-0066 EA 36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,164.26	106.52
Note: Includes bird screen.		
For Flange Frame, Add	95.12	
For Clear Lacquer Finish, Add	190.25	
For Baked Enamel Standard Colors, Add	285.37	
For Anodized Finish, Add	380.49	
For Kynar® Standard Colors Finish, Add	523.18	
08 91 19 00-0067 EA 36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,285.10	115.63
Note: Includes bird screen.		
For Flange Frame, Add	105.38	
For Clear Lacquer Finish, Add	210.77	
For Baked Enamel Standard Colors, Add	316.15	
For Anodized Finish, Add	421.54	
For Kynar® Standard Colors Finish, Add	579.61	
08 91 19 00-0068 EA 36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,388.79	122.63
Note: Includes bird screen.		
For Flange Frame, Add	114.35	
For Clear Lacquer Finish, Add	228.70	
For Baked Enamel Standard Colors, Add	343.05	
For Anodized Finish, Add	457.40	
For Kynar® Standard Colors Finish, Add	628.93	
08 91 19 00-0069 EA 36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,528.13	133.15
Note: Includes bird screen.		
For Flange Frame, Add	126.18	
For Clear Lacquer Finish, Add	252.37	
For Baked Enamel Standard Colors, Add	378.55	
For Anodized Finish, Add	504.73	
For Kynar® Standard Colors Finish, Add	694.01	
08 91 19 00-0070 EA 36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,635.12	143.66
Note: Includes bird screen.		
For Flange Frame, Add	134.78	
For Clear Lacquer Finish, Add	269.56	
For Baked Enamel Standard Colors, Add	404.34	
For Anodized Finish, Add	539.12	
For Kynar® Standard Colors Finish, Add	741.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0071 EA 36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,801.28	154.17
Note: Includes bird screen.		
For Flange Frame, Add	149.29	
For Clear Lacquer Finish, Add	298.59	
For Baked Enamel Standard Colors, Add	447.88	
For Anodized Finish, Add	597.18	
For Kynar® Standard Colors Finish, Add	821.12	
08 91 19 00-0072 EA 36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,912.90	164.68
Note: Includes bird screen.		
For Flange Frame, Add	158.35	
For Clear Lacquer Finish, Add	316.71	
For Baked Enamel Standard Colors, Add	475.06	
For Anodized Finish, Add	633.41	
For Kynar® Standard Colors Finish, Add	870.94	
08 91 19 00-0073 EA 36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,031.37	171.69
Note: Includes bird screen.		
For Flange Frame, Add	168.80	
For Clear Lacquer Finish, Add	337.60	
For Baked Enamel Standard Colors, Add	506.40	
For Anodized Finish, Add	675.20	
For Kynar® Standard Colors Finish, Add	928.39	
08 91 19 00-0074 EA 36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,154.47	178.70
Note: Includes bird screen.		
For Flange Frame, Add	179.71	
For Clear Lacquer Finish, Add	359.41	
For Baked Enamel Standard Colors, Add	539.12	
For Anodized Finish, Add	718.83	
For Kynar® Standard Colors Finish, Add	988.39	
08 91 19 00-0075 EA 36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,262.40	189.21
Note: Includes bird screen.		
For Flange Frame, Add	188.40	
For Clear Lacquer Finish, Add	376.79	
For Baked Enamel Standard Colors, Add	565.19	
For Anodized Finish, Add	753.59	
For Kynar® Standard Colors Finish, Add	1,036.18	
08 91 19 00-0076 EA 36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,427.63	199.73
Note: Includes bird screen.		
For Flange Frame, Add	202.82	
For Clear Lacquer Finish, Add	405.64	
For Baked Enamel Standard Colors, Add	608.45	
For Anodized Finish, Add	811.27	
For Kynar® Standard Colors Finish, Add	1,115.50	
08 91 19 00-0077 EA 42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	668.39	66.58
Note: Includes bird screen.		
For Flange Frame, Add	53.52	
For Clear Lacquer Finish, Add	107.05	
For Baked Enamel Standard Colors, Add	160.57	
For Anodized Finish, Add	214.10	
For Kynar® Standard Colors Finish, Add	294.38	
08 91 19 00-0078 EA 42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	820.83	84.10
Note: Includes bird screen.		
For Flange Frame, Add	65.26	
For Clear Lacquer Finish, Add	130.53	
For Baked Enamel Standard Colors, Add	195.79	
For Anodized Finish, Add	261.06	
For Kynar® Standard Colors Finish, Add	358.95	
08 91 19 00-0079 EA 42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	950.01	94.60
Note: Includes bird screen.		
For Flange Frame, Add	76.08	
For Clear Lacquer Finish, Add	152.16	
For Baked Enamel Standard Colors, Add	228.24	
For Anodized Finish, Add	304.32	
For Kynar® Standard Colors Finish, Add	418.44	
08 91 19 00-0080 EA 42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,110.24	108.62
Note: Includes bird screen.		
For Flange Frame, Add	89.30	
For Clear Lacquer Finish, Add	178.60	
For Baked Enamel Standard Colors, Add	267.90	
For Anodized Finish, Add	357.20	
For Kynar® Standard Colors Finish, Add	491.14	
08 91 19 00-0081 EA 42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,275.85	115.63
Note: Includes bird screen.		
For Flange Frame, Add	104.46	
For Clear Lacquer Finish, Add	208.92	
For Baked Enamel Standard Colors, Add	313.38	
For Anodized Finish, Add	417.84	
For Kynar® Standard Colors Finish, Add	574.52	
08 91 19 00-0082 EA 42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,409.12	122.63
Note: Includes bird screen.		
For Flange Frame, Add	116.38	
For Clear Lacquer Finish, Add	232.77	
For Baked Enamel Standard Colors, Add	349.15	
For Anodized Finish, Add	465.54	
For Kynar® Standard Colors Finish, Add	640.11	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0083	EA	42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,524.83	129.64
			Note: Includes bird screen.		
			For Flange Frame, Add	126.55	
			For Clear Lacquer Finish, Add	253.11	
			For Baked Enamel Standard Colors, Add	379.66	
			For Anodized Finish, Add	506.21	
			For Kynar® Standard Colors Finish, Add	696.04	
08 91	19 00-0084	EA	42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,664.17	140.15
			Note: Includes bird screen.		
			For Flange Frame, Add	138.39	
			For Clear Lacquer Finish, Add	276.77	
			For Baked Enamel Standard Colors, Add	415.16	
			For Anodized Finish, Add	553.54	
			For Kynar® Standard Colors Finish, Add	761.12	
08 91	19 00-0085	EA	42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,784.10	150.67
			Note: Includes bird screen.		
			For Flange Frame, Add	148.28	
			For Clear Lacquer Finish, Add	296.55	
			For Baked Enamel Standard Colors, Add	444.83	
			For Anodized Finish, Add	593.11	
			For Kynar® Standard Colors Finish, Add	815.52	
08 91	19 00-0086	EA	42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,967.83	161.18
			Note: Includes bird screen.		
			For Flange Frame, Add	164.55	
			For Clear Lacquer Finish, Add	329.09	
			For Baked Enamel Standard Colors, Add	493.64	
			For Anodized Finish, Add	658.19	
			For Kynar® Standard Colors Finish, Add	905.01	
08 91	19 00-0087	EA	42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,087.76	171.69
			Note: Includes bird screen.		
			For Flange Frame, Add	174.44	
			For Clear Lacquer Finish, Add	348.88	
			For Baked Enamel Standard Colors, Add	523.31	
			For Anodized Finish, Add	697.75	
			For Kynar® Standard Colors Finish, Add	959.41	
08 91	19 00-0088	EA	42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,221.03	178.70
			Note: Includes bird screen.		
			For Flange Frame, Add	186.36	
			For Clear Lacquer Finish, Add	372.73	
			For Baked Enamel Standard Colors, Add	559.09	
			For Anodized Finish, Add	745.45	
			For Kynar® Standard Colors Finish, Add	1,025.00	
08 91	19 00-0089	EA	42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,355.23	185.71
			Note: Includes bird screen.		
			For Flange Frame, Add	198.38	
			For Clear Lacquer Finish, Add	396.76	
			For Baked Enamel Standard Colors, Add	595.14	
			For Anodized Finish, Add	793.52	
			For Kynar® Standard Colors Finish, Add	1,091.10	
08 91	19 00-0090	EA	42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,481.63	196.22
			Note: Includes bird screen.		
			For Flange Frame, Add	208.92	
			For Clear Lacquer Finish, Add	417.84	
			For Baked Enamel Standard Colors, Add	626.76	
			For Anodized Finish, Add	835.68	
			For Kynar® Standard Colors Finish, Add	1,149.05	
08 91	19 00-0091	EA	42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,658.89	206.73
			Note: Includes bird screen.		
			For Flange Frame, Add	224.54	
			For Clear Lacquer Finish, Add	449.08	
			For Baked Enamel Standard Colors, Add	673.63	
			For Anodized Finish, Add	898.17	
			For Kynar® Standard Colors Finish, Add	1,234.98	
08 91	19 00-0092	EA	48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	731.39	73.59
			Note: Includes bird screen.		
			For Flange Frame, Add	58.42	
			For Clear Lacquer Finish, Add	116.85	
			For Baked Enamel Standard Colors, Add	175.27	
			For Anodized Finish, Add	233.69	
			For Kynar® Standard Colors Finish, Add	321.33	
08 91	19 00-0093	EA	48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	896.78	91.10
			Note: Includes bird screen.		
			For Flange Frame, Add	71.46	
			For Clear Lacquer Finish, Add	142.92	
			For Baked Enamel Standard Colors, Add	214.37	
			For Anodized Finish, Add	285.83	
			For Kynar® Standard Colors Finish, Add	393.02	
08 91	19 00-0094	EA	48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,049.61	105.11
			Note: Includes bird screen.		
			For Flange Frame, Add	83.94	
			For Clear Lacquer Finish, Add	167.87	
			For Baked Enamel Standard Colors, Add	251.81	
			For Anodized Finish, Add	335.75	
			For Kynar® Standard Colors Finish, Add	461.65	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0095 EA 48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,205.60	115.63
Note: Includes bird screen.		
For Flange Frame, Add	97.43	
For Clear Lacquer Finish, Add	194.87	
For Baked Enamel Standard Colors, Add	292.30	
For Anodized Finish, Add	389.74	
For Kynar® Standard Colors Finish, Add	535.89	
08 91 19 00-0096 EA 48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,394.33	122.63
Note: Includes bird screen.		
For Flange Frame, Add	114.91	
For Clear Lacquer Finish, Add	229.81	
For Baked Enamel Standard Colors, Add	344.72	
For Anodized Finish, Add	459.62	
For Kynar® Standard Colors Finish, Add	631.98	
08 91 19 00-0097 EA 48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,547.94	129.64
Note: Includes bird screen.		
For Flange Frame, Add	128.86	
For Clear Lacquer Finish, Add	257.73	
For Baked Enamel Standard Colors, Add	386.59	
For Anodized Finish, Add	515.46	
For Kynar® Standard Colors Finish, Add	708.75	
08 91 19 00-0098 EA 48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,677.11	140.15
Note: Includes bird screen.		
For Flange Frame, Add	139.68	
For Clear Lacquer Finish, Add	279.36	
For Baked Enamel Standard Colors, Add	419.04	
For Anodized Finish, Add	558.72	
For Kynar® Standard Colors Finish, Add	768.24	
08 91 19 00-0099 EA 48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,877.47	150.67
Note: Includes bird screen.		
For Flange Frame, Add	157.61	
For Clear Lacquer Finish, Add	315.23	
For Baked Enamel Standard Colors, Add	472.84	
For Anodized Finish, Add	630.46	
For Kynar® Standard Colors Finish, Add	866.88	
08 91 19 00-0100 EA 48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,967.83	161.18
Note: Includes bird screen.		
For Flange Frame, Add	164.55	
For Clear Lacquer Finish, Add	329.09	
For Baked Enamel Standard Colors, Add	493.64	
For Anodized Finish, Add	658.19	
For Kynar® Standard Colors Finish, Add	905.01	
08 91 19 00-0101 EA 48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,163.56	171.69
Note: Includes bird screen.		
For Flange Frame, Add	182.02	
For Clear Lacquer Finish, Add	364.04	
For Baked Enamel Standard Colors, Add	546.05	
For Anodized Finish, Add	728.07	
For Kynar® Standard Colors Finish, Add	1,001.10	
08 91 19 00-0102 EA 48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,301.07	182.20
Note: Includes bird screen.		
For Flange Frame, Add	193.67	
For Clear Lacquer Finish, Add	387.33	
For Baked Enamel Standard Colors, Add	581.00	
For Anodized Finish, Add	774.66	
For Kynar® Standard Colors Finish, Add	1,065.16	
08 91 19 00-0103 EA 48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,449.13	189.21
Note: Includes bird screen.		
For Flange Frame, Add	207.07	
For Clear Lacquer Finish, Add	414.14	
For Baked Enamel Standard Colors, Add	621.21	
For Anodized Finish, Add	828.28	
For Kynar® Standard Colors Finish, Add	1,138.89	
08 91 19 00-0104 EA 48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,597.18	196.22
Note: Includes bird screen.		
For Flange Frame, Add	220.47	
For Clear Lacquer Finish, Add	440.95	
For Baked Enamel Standard Colors, Add	661.42	
For Anodized Finish, Add	881.90	
For Kynar® Standard Colors Finish, Add	1,212.61	
08 91 19 00-0105 EA 48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,721.21	203.23
Note: Includes bird screen.		
For Flange Frame, Add	231.48	
For Clear Lacquer Finish, Add	462.95	
For Baked Enamel Standard Colors, Add	694.43	
For Anodized Finish, Add	925.90	
For Kynar® Standard Colors Finish, Add	1,273.11	
08 91 19 00-0106 EA 48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,924.34	213.74
Note: Includes bird screen.		
For Flange Frame, Add	249.69	
For Clear Lacquer Finish, Add	499.37	
For Baked Enamel Standard Colors, Add	749.06	
For Anodized Finish, Add	998.74	
For Kynar® Standard Colors Finish, Add	1,373.27	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0107 EA 54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	811.59	84.10
Note: Includes bird screen.		
For Flange Frame, Add	64.34	
For Clear Lacquer Finish, Add	128.68	
For Baked Enamel Standard Colors, Add	193.02	
For Anodized Finish, Add	257.36	
For Kynar® Standard Colors Finish, Add	353.87	
08 91 19 00-0108 EA 54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	995.46	101.61
Note: Includes bird screen.		
For Flange Frame, Add	79.22	
For Clear Lacquer Finish, Add	158.45	
For Baked Enamel Standard Colors, Add	237.67	
For Anodized Finish, Add	316.89	
For Kynar® Standard Colors Finish, Add	435.73	
08 91 19 00-0109 EA 54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,165.46	119.13
Note: Includes bird screen.		
For Flange Frame, Add	92.72	
For Clear Lacquer Finish, Add	185.44	
For Baked Enamel Standard Colors, Add	278.16	
For Anodized Finish, Add	370.88	
For Kynar® Standard Colors Finish, Add	509.95	
08 91 19 00-0110 EA 54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,330.16	126.14
Note: Includes bird screen.		
For Flange Frame, Add	107.79	
For Clear Lacquer Finish, Add	215.57	
For Baked Enamel Standard Colors, Add	323.36	
For Anodized Finish, Add	431.15	
For Kynar® Standard Colors Finish, Add	592.83	
08 91 19 00-0111 EA 54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,554.94	133.15
Note: Includes bird screen.		
For Flange Frame, Add	128.86	
For Clear Lacquer Finish, Add	257.73	
For Baked Enamel Standard Colors, Add	386.59	
For Anodized Finish, Add	515.46	
For Kynar® Standard Colors Finish, Add	708.75	
08 91 19 00-0112 EA 54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,712.24	140.15
Note: Includes bird screen.		
For Flange Frame, Add	143.19	
For Clear Lacquer Finish, Add	286.39	
For Baked Enamel Standard Colors, Add	429.58	
For Anodized Finish, Add	572.77	
For Kynar® Standard Colors Finish, Add	787.56	
08 91 19 00-0113 EA 54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,862.68	150.67
Note: Includes bird screen.		
For Flange Frame, Add	156.14	
For Clear Lacquer Finish, Add	312.27	
For Baked Enamel Standard Colors, Add	468.41	
For Anodized Finish, Add	624.54	
For Kynar® Standard Colors Finish, Add	858.74	
08 91 19 00-0114 EA 54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,080.61	161.18
Note: Includes bird screen.		
For Flange Frame, Add	175.83	
For Clear Lacquer Finish, Add	351.65	
For Baked Enamel Standard Colors, Add	527.48	
For Anodized Finish, Add	703.30	
For Kynar® Standard Colors Finish, Add	967.04	
08 91 19 00-0115 EA 54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,235.67	171.69
Note: Includes bird screen.		
For Flange Frame, Add	189.23	
For Clear Lacquer Finish, Add	378.46	
For Baked Enamel Standard Colors, Add	567.69	
For Anodized Finish, Add	756.92	
For Kynar® Standard Colors Finish, Add	1,040.76	
08 91 19 00-0116 EA 54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,463.77	182.20
Note: Includes bird screen.		
For Flange Frame, Add	209.94	
For Clear Lacquer Finish, Add	419.87	
For Baked Enamel Standard Colors, Add	629.81	
For Anodized Finish, Add	839.74	
For Kynar® Standard Colors Finish, Add	1,154.65	
08 91 19 00-0117 EA 54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,610.90	189.21
Note: Includes bird screen.		
For Flange Frame, Add	223.25	
For Clear Lacquer Finish, Add	446.49	
For Baked Enamel Standard Colors, Add	669.74	
For Anodized Finish, Add	892.99	
For Kynar® Standard Colors Finish, Add	1,227.86	
08 91 19 00-0118 EA 54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,778.37	196.22
Note: Includes bird screen.		
For Flange Frame, Add	238.59	
For Clear Lacquer Finish, Add	477.19	
For Baked Enamel Standard Colors, Add	715.78	
For Anodized Finish, Add	954.37	
For Kynar® Standard Colors Finish, Add	1,312.26	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0119 EA 54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,939.37	203.23
Note: Includes bird screen.		
For Flange Frame, Add	253.29	
For Clear Lacquer Finish, Add	506.58	
For Baked Enamel Standard Colors, Add	759.87	
For Anodized Finish, Add	1,013.16	
For Kynar® Standard Colors Finish, Add	1,393.10	
08 91 19 00-0120 EA 54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,073.57	210.24
Note: Includes bird screen.		
For Flange Frame, Add	265.31	
For Clear Lacquer Finish, Add	530.62	
For Baked Enamel Standard Colors, Add	795.93	
For Anodized Finish, Add	1,061.24	
For Kynar® Standard Colors Finish, Add	1,459.20	
08 91 19 00-0121 EA 54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,309.05	220.75
Note: Includes bird screen.		
For Flange Frame, Add	286.76	
For Clear Lacquer Finish, Add	573.51	
For Baked Enamel Standard Colors, Add	860.27	
For Anodized Finish, Add	1,147.02	
For Kynar® Standard Colors Finish, Add	1,577.15	
08 91 19 00-0122 EA 60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	872.74	91.10
Note: Includes bird screen.		
For Flange Frame, Add	69.05	
For Clear Lacquer Finish, Add	138.11	
For Baked Enamel Standard Colors, Add	207.16	
For Anodized Finish, Add	276.22	
For Kynar® Standard Colors Finish, Add	379.80	
08 91 19 00-0123 EA 60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,076.57	112.12
Note: Includes bird screen.		
For Flange Frame, Add	85.23	
For Clear Lacquer Finish, Add	170.46	
For Baked Enamel Standard Colors, Add	255.70	
For Anodized Finish, Add	340.93	
For Kynar® Standard Colors Finish, Add	468.78	
08 91 19 00-0124 EA 60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,248.81	126.14
Note: Includes bird screen.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0125 EA 60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,438.46	133.15
Note: Includes bird screen.		
For Flange Frame, Add	117.22	
For Clear Lacquer Finish, Add	234.43	
For Baked Enamel Standard Colors, Add	351.65	
For Anodized Finish, Add	468.86	
For Kynar® Standard Colors Finish, Add	644.69	
08 91 19 00-0126 EA 60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,674.87	143.66
Note: Includes bird screen.		
For Flange Frame, Add	138.76	
For Clear Lacquer Finish, Add	277.51	
For Baked Enamel Standard Colors, Add	416.27	
For Anodized Finish, Add	555.02	
For Kynar® Standard Colors Finish, Add	763.15	
08 91 19 00-0127 EA 60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,850.66	150.67
Note: Includes bird screen.		
For Flange Frame, Add	154.93	
For Clear Lacquer Finish, Add	309.87	
For Baked Enamel Standard Colors, Add	464.80	
For Anodized Finish, Add	619.73	
For Kynar® Standard Colors Finish, Add	852.13	
08 91 19 00-0128 EA 60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,007.58	161.18
Note: Includes bird screen.		
For Flange Frame, Add	168.52	
For Clear Lacquer Finish, Add	337.04	
For Baked Enamel Standard Colors, Add	505.57	
For Anodized Finish, Add	674.09	
For Kynar® Standard Colors Finish, Add	926.87	
08 91 19 00-0129 EA 60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,240.29	171.69
Note: Includes bird screen.		
For Flange Frame, Add	189.69	
For Clear Lacquer Finish, Add	379.38	
For Baked Enamel Standard Colors, Add	569.07	
For Anodized Finish, Add	758.76	
For Kynar® Standard Colors Finish, Add	1,043.30	
08 91 19 00-0130 EA 60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,406.45	182.20
Note: Includes bird screen.		
For Flange Frame, Add	204.20	
For Clear Lacquer Finish, Add	408.41	
For Baked Enamel Standard Colors, Add	612.61	
For Anodized Finish, Add	816.82	
For Kynar® Standard Colors Finish, Add	1,123.12	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0131 EA 60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,653.03	192.72
Note: Includes bird screen.		
For Flange Frame, Add	226.76	
For Clear Lacquer Finish, Add	453.52	
For Baked Enamel Standard Colors, Add	680.28	
For Anodized Finish, Add	907.04	
For Kynar® Standard Colors Finish, Add	1,247.18	
08 91 19 00-0132 EA 60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,809.41	199.73
Note: Includes bird screen.		
For Flange Frame, Add	241.00	
For Clear Lacquer Finish, Add	481.99	
For Baked Enamel Standard Colors, Add	722.99	
For Anodized Finish, Add	963.98	
For Kynar® Standard Colors Finish, Add	1,325.48	
08 91 19 00-0133 EA 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,987.06	206.73
Note: Includes bird screen.		
For Flange Frame, Add	257.36	
For Clear Lacquer Finish, Add	514.72	
For Baked Enamel Standard Colors, Add	772.08	
For Anodized Finish, Add	1,029.44	
For Kynar® Standard Colors Finish, Add	1,415.47	
08 91 19 00-0134 EA 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,160.99	213.74
Note: Includes bird screen.		
For Flange Frame, Add	273.35	
For Clear Lacquer Finish, Add	546.70	
For Baked Enamel Standard Colors, Add	820.05	
For Anodized Finish, Add	1,093.40	
For Kynar® Standard Colors Finish, Add	1,503.43	
08 91 19 00-0135 EA 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,309.05	220.75
Note: Includes bird screen.		
For Flange Frame, Add	286.76	
For Clear Lacquer Finish, Add	573.51	
For Baked Enamel Standard Colors, Add	860.27	
For Anodized Finish, Add	1,147.02	
For Kynar® Standard Colors Finish, Add	1,577.15	
08 91 19 00-0136 EA 60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,553.24	227.76
Note: Includes bird screen.		
For Flange Frame, Add	309.77	
For Clear Lacquer Finish, Add	619.55	
For Baked Enamel Standard Colors, Add	929.32	
For Anodized Finish, Add	1,239.09	
For Kynar® Standard Colors Finish, Add	1,703.75	
08 91 19 00-0137 EA 66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,002.31	98.11
Note: Includes bird screen.		
For Flange Frame, Add	80.61	
For Clear Lacquer Finish, Add	161.22	
For Baked Enamel Standard Colors, Add	241.83	
For Anodized Finish, Add	322.44	
For Kynar® Standard Colors Finish, Add	443.35	
08 91 19 00-0138 EA 66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,238.49	119.13
Note: Includes bird screen.		
For Flange Frame, Add	100.02	
For Clear Lacquer Finish, Add	200.04	
For Baked Enamel Standard Colors, Add	300.07	
For Anodized Finish, Add	400.09	
For Kynar® Standard Colors Finish, Add	550.12	
08 91 19 00-0139 EA 66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,444.15	140.15
Note: Includes bird screen.		
For Flange Frame, Add	116.38	
For Clear Lacquer Finish, Add	232.77	
For Baked Enamel Standard Colors, Add	349.15	
For Anodized Finish, Add	465.54	
For Kynar® Standard Colors Finish, Add	640.11	
08 91 19 00-0140 EA 66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,650.45	147.16
Note: Includes bird screen.		
For Flange Frame, Add	135.61	
For Clear Lacquer Finish, Add	271.22	
For Baked Enamel Standard Colors, Add	406.84	
For Anodized Finish, Add	542.45	
For Kynar® Standard Colors Finish, Add	745.87	
08 91 19 00-0141 EA 66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,923.30	154.17
Note: Includes bird screen.		
For Flange Frame, Add	161.50	
For Clear Lacquer Finish, Add	322.99	
For Baked Enamel Standard Colors, Add	484.49	
For Anodized Finish, Add	645.98	
For Kynar® Standard Colors Finish, Add	888.23	
08 91 19 00-0142 EA 66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,114.81	161.18
Note: Includes bird screen.		
For Flange Frame, Add	179.25	
For Clear Lacquer Finish, Add	358.49	
For Baked Enamel Standard Colors, Add	537.74	
For Anodized Finish, Add	716.98	
For Kynar® Standard Colors Finish, Add	985.85	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0143 EA 66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,301.30	171.69
Note: Includes bird screen.		
For Flange Frame, Add	195.79	
For Clear Lacquer Finish, Add	391.58	
For Baked Enamel Standard Colors, Add	587.38	
For Anodized Finish, Add	783.17	
For Kynar® Standard Colors Finish, Add	1,076.86	
08 91 19 00-0144 EA 66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,519.23	182.20
Note: Includes bird screen.		
For Flange Frame, Add	215.48	
For Clear Lacquer Finish, Add	430.96	
For Baked Enamel Standard Colors, Add	646.45	
For Anodized Finish, Add	861.93	
For Kynar® Standard Colors Finish, Add	1,185.15	
08 91 19 00-0145 EA 66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,704.80	192.72
Note: Includes bird screen.		
For Flange Frame, Add	231.94	
For Clear Lacquer Finish, Add	463.87	
For Baked Enamel Standard Colors, Add	695.81	
For Anodized Finish, Add	927.75	
For Kynar® Standard Colors Finish, Add	1,275.65	
08 91 19 00-0146 EA 66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,988.90	206.73
Note: Includes bird screen.		
For Flange Frame, Add	257.54	
For Clear Lacquer Finish, Add	515.09	
For Baked Enamel Standard Colors, Add	772.63	
For Anodized Finish, Add	1,030.17	
For Kynar® Standard Colors Finish, Add	1,416.49	
08 91 19 00-0147 EA 66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,168.00	217.25
Note: Includes bird screen.		
For Flange Frame, Add	273.35	
For Clear Lacquer Finish, Add	546.70	
For Baked Enamel Standard Colors, Add	820.05	
For Anodized Finish, Add	1,093.40	
For Kynar® Standard Colors Finish, Add	1,503.43	
08 91 19 00-0148 EA 66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,355.80	224.25
Note: Includes bird screen.		
For Flange Frame, Add	290.73	
For Clear Lacquer Finish, Add	581.46	
For Baked Enamel Standard Colors, Add	872.19	
For Anodized Finish, Add	1,162.92	
For Kynar® Standard Colors Finish, Add	1,599.02	
08 91 19 00-0149 EA 66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,547.30	231.26
Note: Includes bird screen.		
For Flange Frame, Add	308.48	
For Clear Lacquer Finish, Add	616.96	
For Baked Enamel Standard Colors, Add	925.44	
For Anodized Finish, Add	1,233.92	
For Kynar® Standard Colors Finish, Add	1,696.63	
08 91 19 00-0150 EA 66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,713.85	238.27
Note: Includes bird screen.		
For Flange Frame, Add	323.73	
For Clear Lacquer Finish, Add	647.46	
For Baked Enamel Standard Colors, Add	971.20	
For Anodized Finish, Add	1,294.93	
For Kynar® Standard Colors Finish, Add	1,780.53	
08 91 19 00-0151 EA 66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,985.78	245.28
Note: Includes bird screen.		
For Flange Frame, Add	349.52	
For Clear Lacquer Finish, Add	699.05	
For Baked Enamel Standard Colors, Add	1,048.57	
For Anodized Finish, Add	1,398.09	
For Kynar® Standard Colors Finish, Add	1,922.38	
08 91 19 00-0152 EA 72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,058.86	105.11
Note: Includes bird screen.		
For Flange Frame, Add	84.86	
For Clear Lacquer Finish, Add	169.72	
For Baked Enamel Standard Colors, Add	254.59	
For Anodized Finish, Add	339.45	
For Kynar® Standard Colors Finish, Add	466.74	
08 91 19 00-0153 EA 72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,306.13	126.14
Note: Includes bird screen.		
For Flange Frame, Add	105.38	
For Clear Lacquer Finish, Add	210.77	
For Baked Enamel Standard Colors, Add	316.15	
For Anodized Finish, Add	421.54	
For Kynar® Standard Colors Finish, Add	579.61	
08 91 19 00-0154 EA 72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,521.96	147.16
Note: Includes bird screen.		
For Flange Frame, Add	122.76	
For Clear Lacquer Finish, Add	245.53	
For Baked Enamel Standard Colors, Add	368.29	
For Anodized Finish, Add	491.05	
For Kynar® Standard Colors Finish, Add	675.20	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0155	EA	72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,747.28	157.68
			<i>For Flange Frame, Add</i>	143.19	
			<i>For Clear Lacquer Finish, Add</i>	286.39	
			<i>For Baked Enamel Standard Colors, Add</i>	429.58	
			<i>For Anodized Finish, Add</i>	572.77	
			<i>For Kynar® Standard Colors Finish, Add</i>	787.56	
08 91	19 00-0156	EA	72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,039.55	164.68
			<i>For Flange Frame, Add</i>	171.02	
			<i>For Clear Lacquer Finish, Add</i>	342.04	
			<i>For Baked Enamel Standard Colors, Add</i>	513.05	
			<i>For Anodized Finish, Add</i>	684.07	
			<i>For Kynar® Standard Colors Finish, Add</i>	940.60	
08 91	19 00-0157	EA	72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,241.21	171.69
			<i>For Flange Frame, Add</i>	189.78	
			<i>For Clear Lacquer Finish, Add</i>	379.57	
			<i>For Baked Enamel Standard Colors, Add</i>	569.35	
			<i>For Anodized Finish, Add</i>	759.13	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,043.81	
08 91	19 00-0158	EA	72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,439.73	182.20
			<i>For Flange Frame, Add</i>	207.53	
			<i>For Clear Lacquer Finish, Add</i>	415.06	
			<i>For Baked Enamel Standard Colors, Add</i>	622.60	
			<i>For Anodized Finish, Add</i>	830.13	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,141.43	
08 91	19 00-0159	EA	72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,662.67	189.21
			<i>For Flange Frame, Add</i>	228.42	
			<i>For Clear Lacquer Finish, Add</i>	456.85	
			<i>For Baked Enamel Standard Colors, Add</i>	685.27	
			<i>For Anodized Finish, Add</i>	913.70	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,256.33	
08 91	19 00-0160	EA	72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,856.56	199.73
			<i>For Flange Frame, Add</i>	245.71	
			<i>For Clear Lacquer Finish, Add</i>	491.42	
			<i>For Baked Enamel Standard Colors, Add</i>	737.13	
			<i>For Anodized Finish, Add</i>	982.84	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,351.41	
08 91	19 00-0161	EA	72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,168.00	217.25
			<i>For Flange Frame, Add</i>	273.35	
			<i>For Clear Lacquer Finish, Add</i>	546.70	
			<i>For Baked Enamel Standard Colors, Add</i>	820.05	
			<i>For Anodized Finish, Add</i>	1,093.40	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,503.43	
08 91	19 00-0162	EA	72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,364.66	227.76
			<i>For Flange Frame, Add</i>	290.92	
			<i>For Clear Lacquer Finish, Add</i>	581.83	
			<i>For Baked Enamel Standard Colors, Add</i>	872.75	
			<i>For Anodized Finish, Add</i>	1,163.66	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,600.03	
08 91	19 00-0163	EA	72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,558.01	234.77
			<i>For Flange Frame, Add</i>	308.85	
			<i>For Clear Lacquer Finish, Add</i>	617.70	
			<i>For Baked Enamel Standard Colors, Add</i>	926.55	
			<i>For Anodized Finish, Add</i>	1,235.40	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,698.67	
08 91	19 00-0164	EA	72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,754.14	241.77
			<i>For Flange Frame, Add</i>	327.06	
			<i>For Clear Lacquer Finish, Add</i>	654.12	
			<i>For Baked Enamel Standard Colors, Add</i>	981.18	
			<i>For Anodized Finish, Add</i>	1,308.24	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,798.83	
08 91	19 00-0165	EA	72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,938.25	248.78
			<i>For Flange Frame, Add</i>	344.07	
			<i>For Clear Lacquer Finish, Add</i>	688.14	
			<i>For Baked Enamel Standard Colors, Add</i>	1,032.21	
			<i>For Anodized Finish, Add</i>	1,376.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,892.38	
08 91	19 00-0166	EA	72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,227.74	255.79
			<i>For Flange Frame, Add</i>	371.62	
			<i>For Clear Lacquer Finish, Add</i>	743.23	
			<i>For Baked Enamel Standard Colors, Add</i>	1,114.85	
			<i>For Anodized Finish, Add</i>	1,486.47	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,043.89	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0167 EA 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,126.48	112.12
Note: Includes bird screen.		
For Flange Frame, Add	90.22	
For Clear Lacquer Finish, Add	180.45	
For Baked Enamel Standard Colors, Add	270.67	
For Anodized Finish, Add	360.89	
For Kynar® Standard Colors Finish, Add	496.23	
08 91 19 00-0168 EA 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,380.23	133.15
Note: Includes bird screen.		
For Flange Frame, Add	111.39	
For Clear Lacquer Finish, Add	222.79	
For Baked Enamel Standard Colors, Add	334.18	
For Anodized Finish, Add	445.57	
For Kynar® Standard Colors Finish, Add	612.66	
08 91 19 00-0169 EA 78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,600.68	154.17
Note: Includes bird screen.		
For Flange Frame, Add	129.23	
For Clear Lacquer Finish, Add	258.47	
For Baked Enamel Standard Colors, Add	387.70	
For Anodized Finish, Add	516.94	
For Kynar® Standard Colors Finish, Add	710.79	
08 91 19 00-0170 EA 78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,840.80	164.68
Note: Includes bird screen.		
For Flange Frame, Add	151.14	
For Clear Lacquer Finish, Add	302.29	
For Baked Enamel Standard Colors, Add	453.43	
For Anodized Finish, Add	604.57	
For Kynar® Standard Colors Finish, Add	831.29	
08 91 19 00-0171 EA 78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,149.70	171.69
Note: Includes bird screen.		
For Flange Frame, Add	180.63	
For Clear Lacquer Finish, Add	361.26	
For Baked Enamel Standard Colors, Add	541.90	
For Anodized Finish, Add	722.53	
For Kynar® Standard Colors Finish, Add	993.48	
08 91 19 00-0172 EA 78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,359.69	178.70
Note: Includes bird screen.		
For Flange Frame, Add	200.23	
For Clear Lacquer Finish, Add	400.46	
For Baked Enamel Standard Colors, Add	600.69	
For Anodized Finish, Add	800.92	
For Kynar® Standard Colors Finish, Add	1,101.26	
08 91 19 00-0173 EA 78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,572.08	189.21
Note: Includes bird screen.		
For Flange Frame, Add	219.37	
For Clear Lacquer Finish, Add	438.73	
For Baked Enamel Standard Colors, Add	658.10	
For Anodized Finish, Add	877.46	
For Kynar® Standard Colors Finish, Add	1,206.51	
08 91 19 00-0174 EA 78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,807.95	196.22
Note: Includes bird screen.		
For Flange Frame, Add	241.55	
For Clear Lacquer Finish, Add	483.10	
For Baked Enamel Standard Colors, Add	724.65	
For Anodized Finish, Add	966.20	
For Kynar® Standard Colors Finish, Add	1,328.53	
08 91 19 00-0175 EA 78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,015.71	206.73
Note: Includes bird screen.		
For Flange Frame, Add	260.22	
For Clear Lacquer Finish, Add	520.45	
For Baked Enamel Standard Colors, Add	780.67	
For Anodized Finish, Add	1,040.90	
For Kynar® Standard Colors Finish, Add	1,431.23	
08 91 19 00-0176 EA 78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,346.56	224.25
Note: Includes bird screen.		
For Flange Frame, Add	289.81	
For Clear Lacquer Finish, Add	579.61	
For Baked Enamel Standard Colors, Add	869.42	
For Anodized Finish, Add	1,159.22	
For Kynar® Standard Colors Finish, Add	1,593.93	
08 91 19 00-0177 EA 78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,552.46	234.77
Note: Includes bird screen.		
For Flange Frame, Add	308.29	
For Clear Lacquer Finish, Add	616.59	
For Baked Enamel Standard Colors, Add	924.88	
For Anodized Finish, Add	1,233.18	
For Kynar® Standard Colors Finish, Add	1,695.62	
08 91 19 00-0178 EA 78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,767.62	245.28
Note: Includes bird screen.		
For Flange Frame, Add	327.71	
For Clear Lacquer Finish, Add	655.41	
For Baked Enamel Standard Colors, Add	983.12	
For Anodized Finish, Add	1,310.83	
For Kynar® Standard Colors Finish, Add	1,802.39	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0179 EA 78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,963.74	252.29
Note: Includes bird screen.		
For Flange Frame, Add	345.92	
For Clear Lacquer Finish, Add	691.84	
For Baked Enamel Standard Colors, Add	1,037.75	
For Anodized Finish, Add	1,383.67	
For Kynar® Standard Colors Finish, Add	1,902.55	
08 91 19 00-0180 EA 78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,159.87	259.30
Note: Includes bird screen.		
For Flange Frame, Add	364.13	
For Clear Lacquer Finish, Add	728.26	
For Baked Enamel Standard Colors, Add	1,092.39	
For Anodized Finish, Add	1,456.52	
For Kynar® Standard Colors Finish, Add	2,002.71	
08 91 19 00-0181 EA 78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	4,467.86	266.30
Note: Includes bird screen.		
For Flange Frame, Add	393.53	
For Clear Lacquer Finish, Add	787.05	
For Baked Enamel Standard Colors, Add	1,180.58	
For Anodized Finish, Add	1,574.10	
For Kynar® Standard Colors Finish, Add	2,164.39	
08 91 19 00-0182 EA 84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,182.10	119.13
Note: Includes bird screen.		
For Flange Frame, Add	94.38	
For Clear Lacquer Finish, Add	188.77	
For Baked Enamel Standard Colors, Add	283.15	
For Anodized Finish, Add	377.53	
For Kynar® Standard Colors Finish, Add	519.11	
08 91 19 00-0183 EA 84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,446.00	140.15
Note: Includes bird screen.		
For Flange Frame, Add	116.57	
For Clear Lacquer Finish, Add	233.14	
For Baked Enamel Standard Colors, Add	349.71	
For Anodized Finish, Add	466.28	
For Kynar® Standard Colors Finish, Add	641.13	
08 91 19 00-0184 EA 84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,688.65	161.18
Note: Includes bird screen.		
For Flange Frame, Add	136.63	
For Clear Lacquer Finish, Add	273.26	
For Baked Enamel Standard Colors, Add	409.89	
For Anodized Finish, Add	546.52	
For Kynar® Standard Colors Finish, Add	751.46	
08 91 19 00-0185 EA 84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,936.16	171.69
Note: Includes bird screen.		
For Flange Frame, Add	159.28	
For Clear Lacquer Finish, Add	318.56	
For Baked Enamel Standard Colors, Add	477.83	
For Anodized Finish, Add	637.11	
For Kynar® Standard Colors Finish, Add	876.03	
08 91 19 00-0186 EA 84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,264.48	178.70
Note: Includes bird screen.		
For Flange Frame, Add	190.71	
For Clear Lacquer Finish, Add	381.42	
For Baked Enamel Standard Colors, Add	572.12	
For Anodized Finish, Add	762.83	
For Kynar® Standard Colors Finish, Add	1,048.89	
08 91 19 00-0187 EA 84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,486.49	185.71
Note: Includes bird screen.		
For Flange Frame, Add	211.51	
For Clear Lacquer Finish, Add	423.01	
For Baked Enamel Standard Colors, Add	634.52	
For Anodized Finish, Add	846.03	
For Kynar® Standard Colors Finish, Add	1,163.29	
08 91 19 00-0188 EA 84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,703.49	196.22
Note: Includes bird screen.		
For Flange Frame, Add	231.11	
For Clear Lacquer Finish, Add	462.21	
For Baked Enamel Standard Colors, Add	693.32	
For Anodized Finish, Add	924.42	
For Kynar® Standard Colors Finish, Add	1,271.08	
08 91 19 00-0189 EA 84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,957.86	203.23
Note: Includes bird screen.		
For Flange Frame, Add	255.14	
For Clear Lacquer Finish, Add	510.28	
For Baked Enamel Standard Colors, Add	765.42	
For Anodized Finish, Add	1,020.56	
For Kynar® Standard Colors Finish, Add	1,403.27	
08 91 19 00-0190 EA 84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,175.78	213.74
Note: Includes bird screen.		
For Flange Frame, Add	274.83	
For Clear Lacquer Finish, Add	549.66	
For Baked Enamel Standard Colors, Add	824.49	
For Anodized Finish, Add	1,099.32	
For Kynar® Standard Colors Finish, Add	1,511.57	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0191 EA 84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,526.04	231.26
Note: Includes bird screen.		
For Flange Frame, Add	306.35	
For Clear Lacquer Finish, Add	612.71	
For Baked Enamel Standard Colors, Add	919.06	
For Anodized Finish, Add	1,225.41	
For Kynar® Standard Colors Finish, Add	1,684.94	
08 91 19 00-0192 EA 84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,739.35	241.77
Note: Includes bird screen.		
For Flange Frame, Add	325.58	
For Clear Lacquer Finish, Add	651.16	
For Baked Enamel Standard Colors, Add	976.74	
For Anodized Finish, Add	1,302.32	
For Kynar® Standard Colors Finish, Add	1,790.70	
08 91 19 00-0193 EA 84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,972.98	252.29
Note: Includes bird screen.		
For Flange Frame, Add	346.84	
For Clear Lacquer Finish, Add	693.68	
For Baked Enamel Standard Colors, Add	1,040.53	
For Anodized Finish, Add	1,387.37	
For Kynar® Standard Colors Finish, Add	1,907.63	
08 91 19 00-0194 EA 84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,220.88	259.30
Note: Includes bird screen.		
For Flange Frame, Add	370.23	
For Clear Lacquer Finish, Add	740.46	
For Baked Enamel Standard Colors, Add	1,110.69	
For Anodized Finish, Add	1,480.92	
For Kynar® Standard Colors Finish, Add	2,036.27	
08 91 19 00-0195 EA 84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,444.75	266.30
Note: Includes bird screen.		
For Flange Frame, Add	391.22	
For Clear Lacquer Finish, Add	782.43	
For Baked Enamel Standard Colors, Add	1,173.65	
For Anodized Finish, Add	1,564.86	
For Kynar® Standard Colors Finish, Add	2,151.68	
08 91 19 00-0196 EA 84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	4,775.83	273.30
Note: Includes bird screen.		
For Flange Frame, Add	422.92	
For Clear Lacquer Finish, Add	845.84	
For Baked Enamel Standard Colors, Add	1,268.77	
For Anodized Finish, Add	1,691.69	
For Kynar® Standard Colors Finish, Add	2,326.07	
08 91 19 00-0197 EA 90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,255.82	129.64
Note: Includes bird screen.		
For Flange Frame, Add	99.65	
For Clear Lacquer Finish, Add	199.30	
For Baked Enamel Standard Colors, Add	298.96	
For Anodized Finish, Add	398.61	
For Kynar® Standard Colors Finish, Add	548.09	
08 91 19 00-0198 EA 90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,523.41	150.67
Note: Includes bird screen.		
For Flange Frame, Add	122.21	
For Clear Lacquer Finish, Add	244.42	
For Baked Enamel Standard Colors, Add	366.62	
For Anodized Finish, Add	488.83	
For Kynar® Standard Colors Finish, Add	672.14	
08 91 19 00-0199 EA 90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,775.31	171.69
Note: Includes bird screen.		
For Flange Frame, Add	143.19	
For Clear Lacquer Finish, Add	286.39	
For Baked Enamel Standard Colors, Add	429.58	
For Anodized Finish, Add	572.77	
For Kynar® Standard Colors Finish, Add	787.56	
08 91 19 00-0200 EA 90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,030.21	182.20
Note: Includes bird screen.		
For Flange Frame, Add	166.58	
For Clear Lacquer Finish, Add	333.16	
For Baked Enamel Standard Colors, Add	499.74	
For Anodized Finish, Add	666.32	
For Kynar® Standard Colors Finish, Add	916.19	
08 91 19 00-0201 EA 90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,380.72	189.21
Note: Includes bird screen.		
For Flange Frame, Add	200.23	
For Clear Lacquer Finish, Add	400.46	
For Baked Enamel Standard Colors, Add	600.69	
For Anodized Finish, Add	800.92	
For Kynar® Standard Colors Finish, Add	1,101.26	
08 91 19 00-0202 EA 90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,610.12	196.22
Note: Includes bird screen.		
For Flange Frame, Add	221.77	
For Clear Lacquer Finish, Add	443.54	
For Baked Enamel Standard Colors, Add	665.30	
For Anodized Finish, Add	887.07	
For Kynar® Standard Colors Finish, Add	1,219.72	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0203 EA 90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,829.36	203.23
Note: Includes bird screen.		
For Flange Frame, Add	242.29	
For Clear Lacquer Finish, Add	484.58	
For Baked Enamel Standard Colors, Add	726.87	
For Anodized Finish, Add	969.16	
For Kynar® Standard Colors Finish, Add	1,332.60	
08 91 19 00-0204 EA 90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,097.60	210.24
Note: Includes bird screen.		
For Flange Frame, Add	267.71	
For Clear Lacquer Finish, Add	535.42	
For Baked Enamel Standard Colors, Add	803.14	
For Anodized Finish, Add	1,070.85	
For Kynar® Standard Colors Finish, Add	1,472.42	
08 91 19 00-0205 EA 90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,326.61	220.75
Note: Includes bird screen.		
For Flange Frame, Add	288.51	
For Clear Lacquer Finish, Add	577.02	
For Baked Enamel Standard Colors, Add	865.53	
For Anodized Finish, Add	1,154.04	
For Kynar® Standard Colors Finish, Add	1,586.81	
08 91 19 00-0206 EA 90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,696.28	238.27
Note: Includes bird screen.		
For Flange Frame, Add	321.98	
For Clear Lacquer Finish, Add	643.95	
For Baked Enamel Standard Colors, Add	965.93	
For Anodized Finish, Add	1,287.90	
For Kynar® Standard Colors Finish, Add	1,770.86	
08 91 19 00-0207 EA 90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,918.84	248.78
Note: Includes bird screen.		
For Flange Frame, Add	342.13	
For Clear Lacquer Finish, Add	684.26	
For Baked Enamel Standard Colors, Add	1,026.38	
For Anodized Finish, Add	1,368.51	
For Kynar® Standard Colors Finish, Add	1,881.70	
08 91 19 00-0208 EA 90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,172.81	259.30
Note: Includes bird screen.		
For Flange Frame, Add	365.42	
For Clear Lacquer Finish, Add	730.85	
For Baked Enamel Standard Colors, Add	1,096.27	
For Anodized Finish, Add	1,461.69	
For Kynar® Standard Colors Finish, Add	2,009.83	
08 91 19 00-0209 EA 90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,435.50	266.30
Note: Includes bird screen.		
For Flange Frame, Add	390.29	
For Clear Lacquer Finish, Add	780.58	
For Baked Enamel Standard Colors, Add	1,170.87	
For Anodized Finish, Add	1,561.16	
For Kynar® Standard Colors Finish, Add	2,146.60	
08 91 19 00-0210 EA 90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,660.82	276.81
Note: Includes bird screen.		
For Flange Frame, Add	410.72	
For Clear Lacquer Finish, Add	821.44	
For Baked Enamel Standard Colors, Add	1,232.16	
For Anodized Finish, Add	1,642.88	
For Kynar® Standard Colors Finish, Add	2,258.96	
08 91 19 00-0211 EA 90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	5,011.33	283.81
Note: Includes bird screen.		
For Flange Frame, Add	444.37	
For Clear Lacquer Finish, Add	888.74	
For Baked Enamel Standard Colors, Add	1,333.11	
For Anodized Finish, Add	1,777.48	
For Kynar® Standard Colors Finish, Add	2,444.03	
08 91 19 00-0212 EA 96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,320.28	140.15
Note: Includes bird screen.		
For Flange Frame, Add	104.00	
For Clear Lacquer Finish, Add	207.99	
For Baked Enamel Standard Colors, Add	311.99	
For Anodized Finish, Add	415.99	
For Kynar® Standard Colors Finish, Add	571.98	
08 91 19 00-0213 EA 96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,597.14	161.18
Note: Includes bird screen.		
For Flange Frame, Add	127.48	
For Clear Lacquer Finish, Add	254.96	
For Baked Enamel Standard Colors, Add	382.43	
For Anodized Finish, Add	509.91	
For Kynar® Standard Colors Finish, Add	701.13	
08 91 19 00-0214 EA 96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,861.05	182.20
Note: Includes bird screen.		
For Flange Frame, Add	149.66	
For Clear Lacquer Finish, Add	299.33	
For Baked Enamel Standard Colors, Add	448.99	
For Anodized Finish, Add	598.66	
For Kynar® Standard Colors Finish, Add	823.15	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0215 EA 96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,129.81	192.72
Note: Includes bird screen.		
For Flange Frame, Add	174.44	
For Clear Lacquer Finish, Add	348.88	
For Baked Enamel Standard Colors, Add	523.31	
For Anodized Finish, Add	697.75	
For Kynar® Standard Colors Finish, Add	959.41	
08 91 19 00-0216 EA 96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,491.41	199.73
Note: Includes bird screen.		
For Flange Frame, Add	209.20	
For Clear Lacquer Finish, Add	418.39	
For Baked Enamel Standard Colors, Add	627.59	
For Anodized Finish, Add	836.78	
For Kynar® Standard Colors Finish, Add	1,150.58	
08 91 19 00-0217 EA 96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,758.72	206.73
Note: Includes bird screen.		
For Flange Frame, Add	234.53	
For Clear Lacquer Finish, Add	469.05	
For Baked Enamel Standard Colors, Add	703.58	
For Anodized Finish, Add	938.10	
For Kynar® Standard Colors Finish, Add	1,289.89	
08 91 19 00-0218 EA 96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,991.82	213.74
Note: Includes bird screen.		
For Flange Frame, Add	256.43	
For Clear Lacquer Finish, Add	512.87	
For Baked Enamel Standard Colors, Add	769.30	
For Anodized Finish, Add	1,025.74	
For Kynar® Standard Colors Finish, Add	1,410.39	
08 91 19 00-0219 EA 96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,247.11	220.75
Note: Includes bird screen.		
For Flange Frame, Add	280.56	
For Clear Lacquer Finish, Add	561.12	
For Baked Enamel Standard Colors, Add	841.68	
For Anodized Finish, Add	1,122.24	
For Kynar® Standard Colors Finish, Add	1,543.09	
08 91 19 00-0220 EA 96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,483.91	227.76
Note: Includes bird screen.		
For Flange Frame, Add	302.84	
For Clear Lacquer Finish, Add	605.68	
For Baked Enamel Standard Colors, Add	908.52	
For Anodized Finish, Add	1,211.36	
For Kynar® Standard Colors Finish, Add	1,665.62	
08 91 19 00-0221 EA 96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,880.40	245.28
Note: Includes bird screen.		
For Flange Frame, Add	338.99	
For Clear Lacquer Finish, Add	677.97	
For Baked Enamel Standard Colors, Add	1,016.96	
For Anodized Finish, Add	1,355.94	
For Kynar® Standard Colors Finish, Add	1,864.42	
08 91 19 00-0222 EA 96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,115.66	255.79
Note: Includes bird screen.		
For Flange Frame, Add	260.41	
For Clear Lacquer Finish, Add	520.82	
For Baked Enamel Standard Colors, Add	781.23	
For Anodized Finish, Add	1,041.64	
For Kynar® Standard Colors Finish, Add	1,432.25	
08 91 19 00-0223 EA 96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,369.87	266.30
Note: Includes bird screen.		
For Flange Frame, Add	383.73	
For Clear Lacquer Finish, Add	767.45	
For Baked Enamel Standard Colors, Add	1,151.18	
For Anodized Finish, Add	1,534.91	
For Kynar® Standard Colors Finish, Add	2,110.50	
08 91 19 00-0224 EA 96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,641.79	273.30
Note: Includes bird screen.		
For Flange Frame, Add	409.52	
For Clear Lacquer Finish, Add	819.04	
For Baked Enamel Standard Colors, Add	1,228.55	
For Anodized Finish, Add	1,638.07	
For Kynar® Standard Colors Finish, Add	2,252.35	
08 91 19 00-0225 EA 96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,878.21	283.81
Note: Includes bird screen.		
For Flange Frame, Add	431.06	
For Clear Lacquer Finish, Add	862.11	
For Baked Enamel Standard Colors, Add	1,293.17	
For Anodized Finish, Add	1,724.23	
For Kynar® Standard Colors Finish, Add	2,370.81	
08 91 19 00-0226 EA 96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	5,256.98	294.33
Note: Includes bird screen.		
For Flange Frame, Add	466.83	
For Clear Lacquer Finish, Add	933.66	
For Baked Enamel Standard Colors, Add	1,400.50	
For Anodized Finish, Add	1,867.33	
For Kynar® Standard Colors Finish, Add	2,567.58	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0227			Gable Louver Vents <small>(08 91 19)</small> Note: 1" deep, residential/light commercial grade louvers.		
08 91 19 00-0228			Aluminum Gable Louver Vents <small>(08 91 19 00-0227)</small> Note: Includes screen.		
08 91 19 00-0229			Rectangular Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0230	EA		12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	223.37	11.14
08 91 19 00-0231	EA		12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	244.58	12.79
08 91 19 00-0232	EA		18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	282.07	14.44
08 91 19 00-0233	EA		18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	309.17	15.34
08 91 19 00-0234	EA		24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	352.52	16.25
08 91 19 00-0235	EA		24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	394.80	19.49
08 91 19 00-0236	EA		30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	458.21	24.36
08 91 19 00-0237	EA		30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	511.07	28.43
08 91 19 00-0238	EA		36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	585.03	34.12
08 91 19 00-0239	EA		42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	732.99	45.48
08 91 19 00-0240			Square Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0241	EA		12" x 12" Square Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0242	EA		18" x 18" Square Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0243	EA		24" x 24" Square Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0244	EA		30" x 30" Square Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0245	EA		36" x 36" Square Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0246	EA		42" x 42" Square Fixed Aluminum Gable Louver Vent.....	658.92	39.78
08 91 19 00-0247	EA		48" x 48" Square Fixed Aluminum Gable Louver Vent.....	817.54	51.98
08 91 19 00-0248			Round Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0249	EA		12" Diameter Round Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0250	EA		18" Diameter Round Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0251	EA		24" Diameter Round Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0252	EA		30" Diameter Round Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0253	EA		36" Diameter Round Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0254	EA		42" Diameter Round Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0255			Octagonal Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0256	EA		12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0257	EA		12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	223.37	11.14
08 91 19 00-0258	EA		12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	244.58	12.79
08 91 19 00-0259	EA		18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0260	EA		18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	282.07	14.44
08 91 19 00-0261	EA		18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	309.17	15.34
08 91 19 00-0262	EA		24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0263	EA		24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	352.52	16.25
08 91 19 00-0264	EA		24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	394.80	19.49
08 91 19 00-0265	EA		30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0266	EA		30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	458.21	24.36
08 91 19 00-0267	EA		30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	511.07	28.43
08 91 19 00-0268	EA		36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0269	EA		36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	585.03	34.12
08 91 19 00-0270	EA		36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0271	EA		42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0272	EA		42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	732.99	45.48
08 91 19 00-0273	EA		48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	817.54	51.98
08 91 19 00-0274			Round Top Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0275	EA		12" x 12" Round Top Fixed Aluminum Gable Louver Vent.....	204.47	10.25
08 91 19 00-0276	EA		12" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	223.37	11.14
08 91 19 00-0277	EA		12" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	244.58	12.79
08 91 19 00-0278	EA		18" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	253.33	13.00
08 91 19 00-0279	EA		18" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	282.07	14.44
08 91 19 00-0280	EA		18" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	309.17	15.34
08 91 19 00-0281	EA		24" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	317.29	15.33
08 91 19 00-0282	EA		24" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	352.52	16.25
08 91 19 00-0283	EA		24" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	394.80	19.49
08 91 19 00-0284	EA		30" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	405.37	20.31
08 91 19 00-0285	EA		30" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	458.21	24.36
08 91 19 00-0286	EA		30" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	511.07	28.43
08 91 19 00-0287	EA		36" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	521.63	29.25
08 91 19 00-0288	EA		36" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	585.03	34.12
08 91 19 00-0289	EA		36" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0290	EA		42" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	659.01	39.80
08 91 19 00-0291	EA		42" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	732.99	45.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0292 EA 48" x 48" Round Top Fixed Aluminum Gable Louver Vent	817.54	51.98
08 91 19 00-0293 Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)		
Note: Includes screen.		
08 91 19 00-0294 EA 36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	423.44	12.79
08 91 19 00-0295 EA 36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	479.89	15.33
08 91 19 00-0296 EA 48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	515.11	16.25
08 91 19 00-0297 EA 48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	589.91	19.49
08 91 19 00-0298 EA 48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	657.39	20.31
08 91 19 00-0299 EA 60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	539.50	24.36
08 91 19 00-0300 EA 60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	633.01	28.43
08 91 19 00-0301 EA 60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	716.74	29.25
08 91 19 00-0302 EA 60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	812.67	34.12
08 91 19 00-0303 EA 72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	648.44	38.99
08 91 19 00-0304 EA 72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	748.44	39.80
08 91 19 00-0305 EA 72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	863.07	45.48
08 91 19 00-0306 EA 72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	980.14	51.98
08 91 19 00-0307 EA 72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	1,100.96	59.73
08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)		
Note: Includes screen.		
08 91 19 00-0309 EA 12" x 12" Square Fixed Vinyl Gable Louver Vent.....	68.34	10.25
08 91 19 00-0310 EA 12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	82.27	11.14
08 91 19 00-0311 EA 18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	112.06	14.44
08 91 19 00-0312 EA 24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	152.59	16.25
08 91 19 00-0313 EA 18" Diameter Round Fixed Vinyl Gable Louver Vent.....	108.24	13.00
08 91 19 00-0314 EA 22" Diameter Round Fixed Vinyl Gable Louver Vent.....	125.17	15.33
08 91 19 00-0315 EA 30" Diameter Round Fixed Vinyl Gable Louver Vent.....	176.15	20.31
08 91 19 00-0316 EA 36" Diameter Round Fixed Vinyl Gable Louver Vent.....	257.33	29.25
08 91 19 00-0317 EA 18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....	108.24	13.00
08 91 19 00-0318 EA 22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....	122.47	14.44
08 91 19 00-0319 EA 27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....	157.38	16.25
08 91 19 00-0320 EA 32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....	223.83	24.36
08 91 19 00-0321 EA 40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....	527.17	38.99
08 91 19 00-0322 EA 14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....	106.09	12.79
08 91 19 00-0323 EA 22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....	147.45	16.25
08 91 19 00-0324 EA 34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....	153.46	19.49
08 91 19 00-0325 EA 52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	346.97	24.36
08 91 19 00-0326 EA 56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	346.97	24.36
08 91 19 00-0327 EA 56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	346.97	24.36
08 91 19 00-0328 EA 62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	346.97	24.36
08 91 19 00-0329 EA 62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....	346.97	24.36
08 91 19 00-0330 EA 70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....	390.87	38.99
08 91 19 00-0331 EA 70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	390.87	38.99
08 91 19 00-0332 EA 72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....	390.87	38.99
08 91 19 00-0333 EA 74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	390.87	38.99
08 95 Vents (08 90)		
08 95 13 Soffit Vents (08 95)		
08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)		
08 95 13 00-0002 LF 2-1/2" Wide Aluminum Soffit Vent.....	8.17	3.23
08 95 13 00-0003 LF 3" Wide Aluminum Soffit Vent.....	15.25	6.31
08 95 13 00-0004 EA 4" x 16" Under Eave Vent, Mill Finish	23.25	8.41
08 95 13 00-0005 EA 8" x 16" Under Eave Vent, Mill Finish	23.83	8.41
08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)		
08 95 13 00-0007 LF Up To 2" Vinyl Soffit Vent, Perforated, White.....	6.30	2.69
<i>For Colors, Add</i>	0.10	
08 95 13 00-0008 LF 3" To 4" Vinyl Soffit Vent, Perforated, White.....	6.15	2.69
<i>For Colors, Add</i>	0.08	
08 95 16 Wall Vents (08 95)		
08 95 16 00-0001 Foundation Vents (08 95 16)		
08 95 16 00-0002 SI Galvanized Steel Foundation Vent.....	0.52	0.21
08 95 16 00-0003 SI Aluminum Foundation Vent.....	0.74	0.21
08 95 16 00-0004 SI Stainless Steel Foundation Vent.....	0.87	0.21
08 95 16 00-0005 SI Plastic Foundation Vent.....	0.50	0.21

08	08	Openings
	08 90	Louvers and Vents
	08 95	Vents



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 08



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 Finishes

09 50 Ceilings⁽⁰⁹⁾

Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.

09 51 Acoustical Ceilings^(09 50)

Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.

09 51 13 Acoustical Panel Ceilings^(09 51)

Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.

09 51 13 00-0001 Fiberglass Panels^(09 51 13)

09 51 13 00-0002 Fiberglass Acoustical Panels^(09 51 13 00-0001)

09 51 13 00-0003	SF 2' x 2' x 3/4" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3150)	6.31	0.47
	For Up To 50, Add	1.55	
	For >50 To 200, Add	0.94	
	For >200 To 500, Add	0.39	
	For >2,500 To 4,000, Deduct	-0.13	
	For >4,000 To 5,000, Deduct	-0.22	
	For >5,000, Deduct	-0.34	
	For Individual Room Quantities <495, Add	0.94	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.11	
09 51 13 00-0004	SF 2' x 4' x 3/4" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3151)	6.52	0.47
	For Up To 50, Add	1.59	
	For >50 To 200, Add	0.96	
	For >200 To 500, Add	0.40	
	For >2,500 To 4,000, Deduct	-0.14	
	For >4,000 To 5,000, Deduct	-0.23	
	For >5,000, Deduct	-0.35	
	For Individual Room Quantities <495, Add	0.96	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.11	
09 51 13 00-0005	SF 2' x 2' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3152)	7.05	0.58
	For Up To 50, Add	1.71	
	For >50 To 200, Add	1.03	
	For >200 To 500, Add	0.43	
	For >2,500 To 4,000, Deduct	-0.15	
	For >4,000 To 5,000, Deduct	-0.24	
	For >5,000, Deduct	-0.38	
	For Individual Room Quantities <495, Add	1.03	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	
09 51 13 00-0006	SF 2' x 4' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3153)	7.00	0.58
	For Up To 50, Add	1.71	
	For >50 To 200, Add	1.03	
	For >200 To 500, Add	0.43	
	For >2,500 To 4,000, Deduct	-0.15	
	For >4,000 To 5,000, Deduct	-0.24	
	For >5,000, Deduct	-0.38	
	For Individual Room Quantities <495, Add	1.03	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	
09 51 13 00-0007	SF 2' x 2' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™ 8372)	11.06	0.58
	For Up To 50, Add	2.32	
	For >50 To 200, Add	1.43	
	For >200 To 500, Add	0.64	
	For >2,500 To 4,000, Deduct	-0.23	
	For >4,000 To 5,000, Deduct	-0.36	
	For >5,000, Deduct	-0.54	
	For Individual Room Quantities <495, Add	1.43	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	
09 51 13 00-0008	SF 2' x 4' x 1" Thick, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™ 8373)	11.06	0.58
	For Up To 50, Add	2.32	
	For >50 To 200, Add	1.43	
	For >200 To 500, Add	0.64	
	For >2,500 To 4,000, Deduct	-0.23	
	For >4,000 To 5,000, Deduct	-0.36	
	For >5,000, Deduct	-0.54	
	For Individual Room Quantities <495, Add	1.43	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	

09 51 13 00-0009 Mineral Fiber Panels^(09 51 13)

09 51 13 00-0010 Mineral Fiber Acoustical Ceiling Panels^(09 51 13 00-0009)

Note: Includes square or regular edge and class A fire rating.

09 Finishes

09 50 Ceilings

09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51	13 00-0011	SF	2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured).....	2.65	0.47
			For Up To 50, Add	1.01	
			For >50 To 200, Add	0.57	
			For >200 To 500, Add	0.21	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.11	
			For >5,000, Deduct	-0.20	
			For Individual Room Quantities <495, Add	0.57	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0012	SF	2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured).....	2.47	0.47
			For Up To 50, Add	0.98	
			For >50 To 200, Add	0.55	
			For >200 To 500, Add	0.20	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.10	
			For >5,000, Deduct	-0.19	
			For Individual Room Quantities <495, Add	0.55	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0013	SF	2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....	2.93	0.47
			For Up To 50, Add	1.05	
			For >50 To 200, Add	0.60	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.21	
			For Individual Room Quantities <495, Add	0.60	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0014	SF	2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....	2.84	0.47
			For Up To 50, Add	1.03	
			For >50 To 200, Add	0.59	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.06	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.20	
			For Individual Room Quantities <495, Add	0.59	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0015	SF	2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	4.24	0.47
			For Up To 50, Add	1.24	
			For >50 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.26	
			For Individual Room Quantities <495, Add	0.73	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0016	SF	2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	3.42	0.47
			For Up To 50, Add	1.12	
			For >50 To 200, Add	0.65	
			For >200 To 500, Add	0.25	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.23	
			For Individual Room Quantities <495, Add	0.65	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	
09 51	13 00-0017	SF	2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.64	0.47
			For Up To 50, Add	1.15	
			For >50 To 200, Add	0.67	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.24	
			For Individual Room Quantities <495, Add	0.67	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.68	
			For Ceilings >10' High, Add	0.11	



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0018 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured)	3.26	0.47
For Up To 50, Add	1.10	
For >50 To 200, Add	0.63	
For >200 To 500, Add	0.24	
For >2,500 To 4,000, Deduct	-0.07	
For >4,000 To 5,000, Deduct	-0.13	
For >5,000, Deduct	-0.22	
For Individual Room Quantities <495, Add	0.63	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0019 SF 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.60	0.47
For Up To 50, Add	1.30	
For >50 To 200, Add	0.76	
For >200 To 500, Add	0.31	
For >2,500 To 4,000, Deduct	-0.10	
For >4,000 To 5,000, Deduct	-0.17	
For >5,000, Deduct	-0.28	
For Individual Room Quantities <495, Add	0.76	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0020 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.59	0.47
For Up To 50, Add	1.30	
For >50 To 200, Add	0.76	
For >200 To 500, Add	0.31	
For >2,500 To 4,000, Deduct	-0.10	
For >4,000 To 5,000, Deduct	-0.17	
For >5,000, Deduct	-0.27	
For Individual Room Quantities <495, Add	0.76	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0021 SF 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability)	6.06	0.47
For Up To 50, Add	1.52	
For >50 To 200, Add	0.91	
For >200 To 500, Add	0.38	
For >2,500 To 4,000, Deduct	-0.13	
For >4,000 To 5,000, Deduct	-0.21	
For >5,000, Deduct	-0.33	
For Individual Room Quantities <495, Add	0.91	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0022 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability)	6.62	0.47
For Up To 50, Add	1.60	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.41	
For >2,500 To 4,000, Deduct	-0.14	
For >4,000 To 5,000, Deduct	-0.23	
For >5,000, Deduct	-0.36	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0023 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated)	5.81	0.47
For Up To 50, Add	1.48	
For >50 To 200, Add	0.89	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.12	
For >4,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.89	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0024 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated)	5.78	0.47
For Up To 50, Add	1.48	
For >50 To 200, Add	0.88	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.12	
For >4,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.88	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.68	
For Ceilings >10' High, Add	0.11	
09 51 13 00-0025 SF 20" x 60" x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2617)	2.92	0.47
For Ceilings >10' High, Add	0.11	
09 51 13 00-0026 SF 20" x 60" x 5/8" Thick, Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2627)	3.21	0.47
For Ceilings >10' High, Add	0.11	

09 51 13 00-0027 Wood Fiber Panels (09 51 13)

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0028	SF		2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels	4.81	0.70
			For Up To 50, Add	1.56	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.35	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.19	
			For >5,000, Deduct	-0.32	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0029	SF		2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels	4.59	0.70
			For Up To 50, Add	1.44	
			For >50 To 200, Add	0.83	
			For >200 To 500, Add	0.32	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.18	
			For >5,000, Deduct	-0.30	
			For Individual Room Quantities <495, Add	0.83	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	
09 51 13 00-0030	SF		2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels	6.02	0.70
			For Up To 50, Add	1.74	
			For >50 To 200, Add	1.02	
			For >200 To 500, Add	0.41	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.22	
			For >5,000, Deduct	-0.37	
			For Individual Room Quantities <495, Add	1.02	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0031	SF		2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels	5.80	0.70
			For Up To 50, Add	1.62	
			For >50 To 200, Add	0.95	
			For >200 To 500, Add	0.38	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.34	
			For Individual Room Quantities <495, Add	0.95	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	
09 51 13 00-0032	SF		2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels	7.19	0.70
			For Up To 50, Add	1.91	
			For >50 To 200, Add	1.14	
			For >200 To 500, Add	0.46	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.41	
			For Individual Room Quantities <495, Add	1.14	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0033	SF		2' x 4' x 3/4" Wood Fiber Acoustical Ceiling Panels	6.97	0.70
			For Up To 50, Add	1.79	
			For >50 To 200, Add	1.07	
			For >200 To 500, Add	0.44	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.25	
			For >5,000, Deduct	-0.39	
			For Individual Room Quantities <495, Add	1.07	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	
09 51 13 00-0034	SF		2' x 2' x 1" Wood Fiber Acoustical Ceiling Panels	5.52	0.70
			For Up To 50, Add	1.66	
			For >50 To 200, Add	0.97	
			For >200 To 500, Add	0.38	
			For >2,500 To 4,000, Deduct	-0.12	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.35	
			For Individual Room Quantities <495, Add	0.97	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.16	
09 51 13 00-0035	SF		2' x 4' x 1" Wood Fiber Acoustical Ceiling Panels	5.30	0.70
			For Up To 50, Add	1.54	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.36	
			For >2,500 To 4,000, Deduct	-0.12	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.32	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.14	

09 51 13 00-0036 Removal And Reinstallation Of Acoustical Ceiling Panels (09 51 13)

Note: 2'x2' Or 2'x4'. Includes storage and cleaning.



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0037 SF Removal And Reinstallation Of Acoustical Panels Only	2.40	
<i>For Up To 50, Add</i>	1.32	
<i>For >50 To 200, Add</i>	0.72	
<i>For >200 To 500, Add</i>	0.24	
<i>For >2,500 To 4,000, Deduct</i>	-0.06	
<i>For >4,000 To 5,000, Deduct</i>	-0.12	
<i>For >5,000, Deduct</i>	-0.24	
<i>For Ceilings >10' High, Add</i>	0.18	
09 51 23 Acoustical Tile Ceilings (09 51)		
Note: Includes fastening with staples and/or adhesive.		
09 51 23 00-0001 Mineral Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0002 SF 12" x 12" x 1/2" Tongue And Groove Mineral Fiber Acoustical Ceiling Tile	5.52	1.29
<i>For Furring 1 x 3 Strips 12" On Center, Add</i>	0.50	
<i>For Up To 50, Add</i>	2.00	
<i>For >50 To 200, Add</i>	1.14	
<i>For >200 To 500, Add</i>	0.42	
<i>For >2,500, Deduct</i>	-0.28	
<i>For Ceilings >10' High, Add</i>	0.22	
09 51 23 00-0003 SF 12" x 12" x 5/8" Spline Mineral Fiber Acoustical Ceiling Tile.....	6.48	1.29
<i>For Furring 1 x 3 Strips 12" On Center, Add</i>	0.50	
<i>For Up To 50, Add</i>	2.14	
<i>For >50 To 200, Add</i>	1.23	
<i>For >200 To 500, Add</i>	0.47	
<i>For >2,500, Deduct</i>	-0.32	
<i>For Placing Tiles In Suspended Ceiling System, Deduct</i>	-0.40	
<i>For Ceilings >10' High, Add</i>	0.22	
09 51 23 00-0004 SF 12" x 12" x 3/4" Spline Mineral Fiber Acoustical Ceiling Tile.....	7.26	1.29
<i>For Furring 1 x 3 Strips 12" On Center, Add</i>	0.50	
<i>For Up To 50, Add</i>	2.26	
<i>For >50 To 200, Add</i>	1.31	
<i>For >200 To 500, Add</i>	0.51	
<i>For >2,500, Deduct</i>	-0.36	
<i>For Placing Tiles In Suspended Ceiling System, Deduct</i>	-0.40	
<i>For Ceilings >10' High, Add</i>	0.22	
09 51 23 00-0005 Wood Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0006 SF 12" x 12" x 1/2" Staple Flange Wood Fiber Acoustical Ceiling Tile.....	5.11	1.29
<i>For Furring 1 x 3 Strips 12" On Center, Add</i>	0.50	
<i>For Up To 50, Add</i>	1.94	
<i>For >50 To 200, Add</i>	1.10	
<i>For >200 To 500, Add</i>	0.40	
<i>For >2,500, Deduct</i>	-0.26	
<i>For Ceilings >10' High, Add</i>	0.22	
09 51 33 Acoustical Metal Pan Ceilings (09 51)		
09 51 33 13 Acoustical Snap-in Metal Pan Ceilings (09 51 33)		
09 51 33 13-0001 Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)		
09 51 33 13-0002 SF 24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	19.05	1.03
09 51 33 13-0003 SF 24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	20.37	1.03
09 51 33 13-0004 Aluminum, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)		
09 51 33 13-0005 SF 24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	14.30	1.17
09 51 33 13-0006 SF 24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.07	1.17
09 51 33 13-0007 SF 24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	46.85	1.17
09 51 33 13-0008 SF 24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.36	1.17
09 51 33 13-0009 SF 24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.08	1.17
09 51 33 13-0010 SF 24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	23.46	1.17
09 51 33 13-0011 SF 24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	46.50	1.17
09 51 33 13-0012 SF 24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.19	1.17
09 51 33 13-0013 SF 30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	19.36	1.17
09 51 33 13-0014 SF 30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.38	1.17
09 51 33 13-0015 SF 30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	51.64	1.17
09 51 33 13-0016 SF 30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.12	1.17

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 33 13-0017	SF		30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	20.49	1.17
09 51 33 13-0018	SF		30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	25.99	1.17
09 51 33 13-0019	SF		30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	53.39	1.17
09 51 33 13-0020	SF		30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	25.73	1.17
09 51 33 13-0021	SF		12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	17.52	1.17
09 51 33 13-0022	SF		12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	28.52	1.17
09 51 33 13-0023	SF		12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	50.51	1.17
09 51 33 13-0024	SF		12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	24.51	1.17
09 51 33 13-0025	SF		12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.83	1.17
09 51 33 13-0026	SF		12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	28.87	1.17
09 51 33 13-0027	SF		12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	52.34	1.17
09 51 33 13-0028	SF		12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	25.29	1.17
09 51 33 13-0029	SF		24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.93	1.17
09 51 33 13-0030	SF		24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	21.26	1.17
09 51 33 13-0031	SF		24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	43.95	1.17
09 51 33 13-0032	SF		24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	20.21	1.17
09 51 33 13-0033	SF		24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.80	1.17
09 51 33 13-0034	SF		24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	21.08	1.17
09 51 33 13-0035	SF		24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	44.04	1.17
09 51 33 13-0036	SF		24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	20.21	1.17

09 51 33 23 Acoustical Lay-in Metal Pan Ceilings (09 51 33)**09 51 33 23-0001 Acoustical Lay-In Metal Pan Ceilings (09 51 33 23)****09 51 33 23-0002 Aluminum, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)**

09 51 33 23-0003	SF		24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	14.85	0.88
09 51 33 23-0004	SF		24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	16.81	0.88
09 51 33 23-0005	SF		24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	24.67	0.88
09 51 33 23-0006	SF		24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	20.96	0.88
09 51 33 23-0007	SF		24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.49	0.88
09 51 33 23-0008	SF		24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	35.36	0.88
09 51 33 23-0009	SF		30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.15	0.88
09 51 33 23-0010	SF		30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	27.45	0.88
09 51 33 23-0011	SF		48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.27	0.88
09 51 33 23-0012	SF		48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	27.61	0.88
09 51 33 23-0013	SF		12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.38	0.88
09 51 33 23-0014	SF		12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	27.50	0.88
09 51 33 23-0015	SF		24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	22.38	0.88
09 51 33 23-0016	SF		24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	27.72	0.88

09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0018	SF		24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	19.14	0.88
09 51 33 23-0019	SF		24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	22.81	0.88
09 51 33 23-0020	SF		24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	24.47	0.88
09 51 33 23-0021	SF		24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	22.98	0.88
09 51 33 23-0022	SF		24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	23.59	0.88
09 51 33 23-0023	SF		24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	24.99	0.88

09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)**09 51 33 33-0001 Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)****09 51 33 33-0002 Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)**



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51	33 33-0003	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	13.99	0.88
09 51	33 33-0004	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.74	0.88
09 51	33 33-0005	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	22.20	0.88
09 51	33 33-0006	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	15.91	0.88
09 51	33 33-0007	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	18.01	0.88
09 51	33 33-0008	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.20	0.88

09 53 Acoustical Ceiling Suspension Assemblies (09 50)

09 53 23 Metal Acoustical Ceiling Suspension Assemblies (09 53)

09 53 23 00-0001 Ceiling Suspension Systems (09 53 23)

Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from wood deck or wood members above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.

09 53 23 00-0002	SF	1' x 1' Grid, Concealed, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	4.12	0.58
		Note: Excludes ceiling tile.		
		For Fastening To Concrete, Add	1.36	
		For Fastening To Steel, Add	1.51	
		For Vertical Application, Add	2.22	
		For Individual Room Quantities <495, Add	0.46	
		Note: For use with projects >500 SF		
		For Up To 50, Add	1.63	
		For >50 To 200, Add	0.92	
		For >200 To 500, Add	0.33	
		For >2,500 To 4,000, Deduct	-0.10	
		For >4,000 To 5,000, Deduct	-0.17	
		For >5,000, Deduct	-0.25	
		For Ceilings >10' High, Add	0.19	
09 53 23 00-0003	SF	1' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	3.32	0.58
		For UL Listed (Fire Guard), Add	0.18	
		For 1-1/2" Wide Faced Grid, Add	0.33	
		For Fastening To Concrete, Add	1.32	
		For Fastening To Steel, Add	1.47	
		For Vertical Application, Add	1.86	
		For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
		For Individual Room Quantities <495, Add	0.38	
		Note: For use with projects >500 SF		
		For Aluminum T-Bar System, Add	0.54	
		For Up To 50, Add	1.35	
		For >50 To 200, Add	0.76	
		For >200 To 500, Add	0.27	
		For >2,500 To 4,000, Deduct	-0.08	
		For >4,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.21	
		For Ceilings >10' High, Add	0.16	
09 53 23 00-0004	SF	2' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.79	0.58
		For UL Listed (Fire Guard), Add	0.13	
		For 1-1/2" Wide Faced Grid, Add	0.24	
		For Fastening To Concrete, Add	1.31	
		For Fastening To Steel, Add	1.46	
		For Vertical Application, Add	1.71	
		For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
		For Individual Room Quantities <495, Add	0.33	
		Note: For use with projects >500 SF		
		For Aluminum T-Bar System, Add	0.38	
		For Up To 50, Add	1.20	
		For >50 To 200, Add	0.67	
		For >200 To 500, Add	0.24	
		For >2,500 To 4,000, Deduct	-0.07	
		For >4,000 To 5,000, Deduct	-0.12	
		For >5,000, Deduct	-0.18	
		For Black Grid, Add	0.11	
		For Ceilings >10' High, Add	0.15	
		For Concealed Spline Grid, Add	0.41	

09 Finishes**09 50 Ceilings****09 53 Acoustical Ceiling Suspension Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0005	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.30	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.10	
			<i>For 1-1/2" Wide Faced Grid, Add</i>	0.18	
			<i>For Fastening To Concrete, Add</i>	1.27	
			<i>For Fastening To Steel, Add</i>	1.42	
			<i>For Vertical Application, Add</i>	1.64	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.28	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Aluminum T-Bar System, Add</i>	0.30	
			<i>For Up To 50, Add</i>	1.00	
			<i>For >50 To 200, Add</i>	0.56	
			<i>For >200 To 500, Add</i>	0.20	
			<i>For >2,500 To 4,000, Deduct</i>	-0.05	
			<i>For >4,000 To 5,000, Deduct</i>	-0.10	
			<i>For >5,000, Deduct</i>	-0.15	
			<i>For Black Grid, Add</i>	0.08	
			<i>For Ceilings >10' High, Add</i>	0.12	
			<i>For Concealed Spline Grid, Add</i>	0.33	
09 53 23 00-0006	SF		1'-8" To 2' x 5' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System	2.01	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.09	
			<i>For 1-1/2" Wide Faced Grid, Add</i>	0.17	
			<i>For Fastening To Concrete, Add</i>	1.25	
			<i>For Fastening To Steel, Add</i>	1.40	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.24	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Aluminum T-Bar System, Add</i>	0.27	
			<i>For Up To 50, Add</i>	0.87	
			<i>For >50 To 200, Add</i>	0.48	
			<i>For >200 To 500, Add</i>	0.17	
			<i>For >2,500 To 4,000, Deduct</i>	-0.05	
			<i>For >4,000 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000, Deduct</i>	-0.13	
			<i>For Ceilings >10' High, Add</i>	0.11	
09 53 23 00-0007	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	2.96	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.15	
			<i>For Fastening To Concrete, Add</i>	1.31	
			<i>For Fastening To Steel, Add</i>	1.46	
			<i>For Vertical Application, Add</i>	1.71	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.34	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Up To 50, Add</i>	1.22	
			<i>For >50 To 200, Add</i>	0.69	
			<i>For >200 To 500, Add</i>	0.25	
			<i>For >2,500 To 4,000, Deduct</i>	-0.07	
			<i>For >4,000 To 5,000, Deduct</i>	-0.13	
			<i>For >5,000, Deduct</i>	-0.19	
			<i>For Black Grid, Add</i>	0.13	
			<i>For Ceilings >10' High, Add</i>	0.15	
09 53 23 00-0008	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	2.43	0.58
			<i>For UL Listed (Fire Guard), Add</i>	0.12	
			<i>For Fastening To Concrete, Add</i>	1.27	
			<i>For Fastening To Steel, Add</i>	1.42	
			<i>For Vertical Application, Add</i>	1.64	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.29	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Up To 50, Add</i>	1.02	
			<i>For >50 To 200, Add</i>	0.57	
			<i>For >200 To 500, Add</i>	0.20	
			<i>For >2,500 To 4,000, Deduct</i>	-0.06	
			<i>For >4,000 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000, Deduct</i>	-0.15	
			<i>For Black Grid, Add</i>	0.10	
			<i>For Ceilings >10' High, Add</i>	0.12	
09 53 23 00-0009			Ceiling Suspension System Accessories (09 53 23)		
09 53 23 00-0010	LF		Pencil Rod Support For Suspended Ceiling with Accessories	1.34	
09 53 23 00-0011	LF		1" x 1/8" Flat Bar Bracing For Suspended Ceiling.....	3.43	1.64
			<i>For 304 Stainless Steel, Add</i>	2.76	
			<i>For 316 Stainless Steel, Add</i>	3.10	
			<i>For Aluminum, Add</i>	0.17	
			<i>For Galvanized Steel, Add</i>	0.60	
09 53 23 00-0012	LF		1" x 3/16" Flat Bar Bracing For Suspended Ceiling.....	4.90	1.76
			<i>For 304 Stainless Steel, Add</i>	4.22	
			<i>For 316 Stainless Steel, Add</i>	4.74	
			<i>For Aluminum, Add</i>	0.27	
			<i>For Galvanized Steel, Add</i>	0.92	
09 53 23 00-0013	LF		1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling	6.82	1.87
			<i>For 304 Stainless Steel, Add</i>	8.44	
			<i>For 316 Stainless Steel, Add</i>	9.47	
			<i>For Aluminum, Add</i>	0.53	
			<i>For Galvanized Steel, Add</i>	1.84	



Finishes	09	09
Ceilings	09 50	
Acoustical Ceiling Suspension Assemblies	09 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0014	EA		2', Exposed 15/16" Hot-dipped Galvanized Steel, Suspended Ceiling Cross Tee Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.	6.90	0.34
09 53 23 00-0015	EA		Lateral Support For Suspended Ceiling Channel, Installed 12'-0" On Center Maximum Note: Includes vertical centerl strut and four 12 gauge diagonal wires.	29.85	8.78
09 53 23 00-0016	EA		Up To 30" Compression Posts, Telescopic, With Splay Wires, Attached To Structure.....	73.69	23.80
09 53 23 00-0017	EA		>30" To 48" Compression Posts, Telescopic, With Splay Wires, Attached To Structure.....	76.28	24.26
09 53 23 00-0018	EA		>48" To 84" Compression Posts, Telescopic, With Splay Wires, Attached To Structure.....	84.97	24.26
09 53 23 00-0019 Removal And Reinstallation Of Acoustical Ceiling Suspension Assembly (09 53)					
23) Note: 2'x2' Or 2'x4'. Includes storage and cleaning.					
09 53 23 00-0020	SF		Removal And Reinstallation Of Acoustical Ceiling Tile And Grid, 2' x 2' Or 2' x 4' Note: Suspension system tie wire, wall angles and bracing to remain in place.	3.23	
			For Up To 50, Add	1.78	
			For >50 To 200, Add	0.97	
			For >200 To 500, Add	0.32	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.24	
			For Ceilings >10' High, Add	0.24	
09 53 23 00-0021	SF		Removal And Reinstallation Of Grid System Only Note: Suspension system tie wire, wall angles and bracing to remain in place.	1.41	
			For Up To 50, Add	0.78	
			For >50 To 200, Add	0.42	
			For >200 To 500, Add	0.14	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.07	
			For >5,000, Deduct	-0.11	
			For Ceilings >10' High, Add	0.11	
09 54 Specialty Ceilings (09 50)					
09 54 16 Luminous Ceilings (09 54)					
09 54 16 00-0001 Translucent Ceiling Panels (09 54 16)					
09 54 16 00-0002	SF		2' x 2' x 0.013" Thick, Rigid Vinyl Plastic, Translucent Ceiling Panel For Ceilings >10' High, Add For >100 To 200, Deduct For >200 To 300, Deduct For >300, Deduct	3.37	0.58
				0.10	
				-0.14	
				-0.37	
				-0.64	
09 54 23 Linear Metal Ceilings (09 54)					
09 54 23 00-0001 Linear Ceiling Systems (09 54 23)					
09 54 23 00-0002 0.032" Aluminum, Linear Ceiling Systems (09 54 23 00-0001)					
Note: For flat ceilings. Includes round or box style panels with KYNAR 500® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips.					
09 54 23 00-0003	SF		4" Panel Width, 0.032" Aluminum, Linear Ceiling System For Up To 50, Add For >50 To 200, Add For >200 To 500, Add For >2,500, Deduct For Ceilings >10' High, Add For Linear Ceiling Systems Without Filler Strips, Deduct For Curved Ceilings, Add	19.59	2.52
				5.36	
				3.17	
				1.28	
				-0.98	
				0.45	
				-3.36	
				1.43	
09 54 23 00-0004	SF		8" Panel Width, 0.032" Aluminum, Linear Ceiling System For Up To 50, Add For >50 To 200, Add For >200 To 500, Add For >2,500, Deduct For Ceilings >10' High, Add For Linear Ceiling Systems Without Filler Strips, Deduct For Curved Ceilings, Add	15.99	2.52
				4.77	
				2.78	
				1.10	
				-0.80	
				0.44	
				-1.68	
				1.41	
09 54 23 00-0005	SF		12" Panel Width, 0.032" Aluminum, Linear Ceiling System For Up To 50, Add For >50 To 200, Add For >200 To 500, Add For >2,500, Deduct For Ceilings >10' High, Add For Linear Ceiling Systems Without Filler Strips, Deduct For Curved Ceilings, Add	14.58	2.52
				4.51	
				2.62	
				1.02	
				-0.73	
				0.44	
				-1.12	
				1.38	
09 54 23 00-0006 Tin Ceilings (09 54 23)					
09 54 23 00-0007	SF		2' x 2' Tin Ceiling Embossed Panels For Up To 50, Add For >50 To 200, Add For >200 To 500, Add For >2,500, Deduct For Ceilings >10' High, Add	19.47	3.91
				4.80	
				2.89	
				1.21	
				-0.97	
				0.35	

09	09 Finishes
	09 50 Ceilings
	09 54 Specialty Ceilings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 54 23 00-0008 SF 12" x 12" Tin Ceiling Embossed Plates.....	28.51	2.52
For Up To 50, Add	6.26	
For >50 To 200, Add	3.85	
For >200 To 500, Add	1.67	
For >2,500, Deduct	-1.43	
For Ceilings >10' High, Add	0.37	
09 54 23 00-0009 SF 12" x 24" Tin Ceiling Embossed Plates.....	21.02	2.52
For Up To 50, Add	5.14	
For >50 To 200, Add	3.10	
For >200 To 500, Add	1.30	
For >2,500, Deduct	-1.05	
For Ceilings >10' High, Add	0.37	
09 54 23 00-0010 SF 24" x 24" Tin Ceiling Embossed Plates.....	19.30	2.52
For Up To 50, Add	4.73	
For >50 To 200, Add	2.85	
For >200 To 500, Add	1.19	
For >2,500, Deduct	-0.97	
For Ceilings >10' High, Add	0.34	
09 54 23 00-0011 SF 24" x 48" Tin Ceiling Embossed Plates.....	16.85	1.89
For Up To 50, Add	4.13	
For >50 To 200, Add	2.49	
For >200 To 500, Add	1.04	
For >2,500, Deduct	-0.84	
For Ceilings >10' High, Add	0.30	
09 54 23 00-0012 LF 3" Or 4" Wide Embossed Molding.....	13.86	3.79
09 54 23 00-0013 LF 6" Wide Embossed Molding.....	17.20	4.41
09 54 23 00-0014 LF 12" Wide Embossed Molding.....	22.95	5.17
09 54 23 00-0015 EA 3", 4" Or 6" Wide Embossed Cross, Tee Or Ell.....	40.50	11.97
09 54 23 00-0016 EA 12" Wide Embossed Cross, Tee Or Ell.....	55.47	14.00

09 57 Special Function Ceilings (09 50)

09 57 63 High Impact Ceilings (09 57)

09 57 63 00-0001 High Impact Ceilings (09 57 63)

09 57 63 00-0002 SF Polyvinyl Chloride Face High Impact Ceiling Panels.....	9.87	1.17
For Ceilings >10' High, Add	0.14	
09 57 63 00-0003 SF High Impact Clips.....	3.55	0.94
For Ceilings >10' High, Add	0.11	

09 80 Acoustic Treatment (09)

09 81 Acoustic Insulation (09 80)

09 81 16 Acoustic Blanket Insulation (09 81)

09 81 16 00-0001 Sound Attenuation Fire Blankets (SAFB) (09 81 16)

09 81 16 00-0002 2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)

09 81 16 00-0003 SF 1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.92	0.35
09 81 16 00-0004 SF 2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.05	0.35
09 81 16 00-0005 SF 2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.24	0.35
09 81 16 00-0006 SF 3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.38	0.35
09 81 16 00-0007 SF 3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.56	0.35
09 81 16 00-0008 SF 4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.74	0.35
09 81 16 00-0009 SF 5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.97	0.35
09 81 16 00-0010 SF 6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	3.23	0.35

09 81 16 00-0011 4 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)

09 81 16 00-0012 SF 1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.89	0.35
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09 81 16 00-0013 Sound Attenuation Batts (09 81 16)

Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville.

09 81 16 00-0014 SF 2-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.21	0.47
09 81 16 00-0015 SF 3-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.28	0.47
09 81 16 00-0016 SF 3-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	1.33	0.47
09 81 16 00-0017 SF 5-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.46	0.47
09 81 16 00-0018 SF 5-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	1.50	0.47
09 81 16 00-0019 SF 6-1/4" Thick, Unfaced Sound Attenuation Batt.....	1.49	0.47
09 81 16 00-0020 SF 6-1/4" Thick, Kraft Faced Sound Attenuation Batt.....	1.54	0.47

09 84 Acoustic Room Components (09 80)

09 84 13 Fixed Sound-Absorptive Panels (09 84)

09 84 13 00-0001 Sound Absorbing Panels And Attenuation Blankets (09 84 13)

Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system. See CSI section 09 53 23 00-0000 for suspended ceiling support.



Finishes	09	09
Acoustic Treatment	09 80	
Acoustic Room Components	09 84	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 84 13 00-0002 SF 3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler.....	10.68	2.34
09 84 13 00-0003 SF 1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls	15.46	2.34
09 84 13 00-0004 Sound Absorbing Acoustical Wall Panel System (09 84 13)		
09 84 13 00-0005 Fiberglass, Sound Absorbing Wall Panel System (09 84 13 00-0004) Note: Includes molding and mounting hardware for flush mount. All panels are 3/4" thick.		
09 84 13 00-0006 SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Tek-Wall).....	16.97	2.64
09 84 13 00-0007 SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Adorn)	20.39	2.64
09 84 13 00-0008 Sound Absorbing Panel, Eggcrate Style (09 84 13) Note: Ceiling or wall hung back.		
09 84 13 00-0009 SF 2" Thick Polyurethane Sound Wave (Eggcrate Style).....	10.39	
<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0010 SF 3" Thick Polyurethane Sound Wave (Eggcrate Style).....	13.39	
<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0011 SF 4" Thick Polyurethane Sound Wave (Eggcrate Style).....	17.06	
<i>For Pyramid Style, Add</i>	1.18	
09 84 13 00-0012 SF 2" Thick Melamine Sound Wave (Eggcrate Style)	12.94	
<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
<i>For Pyramid Style, Add</i>	2.05	
<i>For Pyramid Style With Hypalon Coating, Add</i>	4.02	
09 84 13 00-0013 SF 3" Thick Melamine Sound Wave (Eggcrate Style)	27.41	
<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
<i>For Pyramid Style, Add</i>	0.42	
<i>For Pyramid Style With Hypalon Coating, Add</i>	2.40	
09 84 13 00-0014 SF 4" Thick Melamine Sound Wave (Eggcrate Style)	34.93	
<i>For Eggcrate Style With Hypalon Coating, Add</i>	1.97	
<i>For Pyramid Style, Add</i>	0.42	
<i>For Pyramid Style With Hypalon Coating, Add</i>	2.40	
09 84 13 00-0015 Sound Deadening Fiberboard (09 84 13)		
09 84 13 00-0016 SF 1/2" Sound Deadening Fiberboard.....	1.92	0.58
<i>For Horizontal Installation Up To 10' High, Add</i>	0.36	
<i>For Horizontal Installation >10' High, Add</i>	0.54	
<i>For Walls >10' High, Add</i>	0.09	
<i>For Up To 128, Add</i>	0.60	
<i>For >128 To 320, Add</i>	0.35	

END OF SECTION 09

09	09	Finishes
	09 80	Acoustic Treatment
	09 84	Acoustic Room Components



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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Specialties	10
Operation and Maintenance of Specialties	10 01
Operation and Maintenance of Safety Specialties	10 01 40

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 01 Operation and Maintenance of Specialties ⁽¹⁰⁾

10 01 40 Operation and Maintenance of Safety Specialties ^(10 01)

10 01 40 00-0001		Recharge Existing Portable Fire Extinguishers ^(10 01 40)		
		Note: Includes removal, filling, testing, certification and reinstallation.		
10 01 40 00-0002		Recharge Carbon Dioxide, Class BC Portable Fire Extinguishers ^(10 01 40 00-0001)		
10 01 40 00-0003	EA	Recharge 2.5 LB Carbon Dioxide Portable Fire Extinguisher	14.39	
10 01 40 00-0004	EA	Recharge 5 LB Carbon Dioxide Portable Fire Extinguisher	15.99	
10 01 40 00-0005	EA	Recharge 10 LB Carbon Dioxide Portable Fire Extinguisher	16.63	
10 01 40 00-0006	EA	Recharge 15 LB Carbon Dioxide Portable Fire Extinguisher	18.82	
10 01 40 00-0007	EA	Recharge 20 LB Carbon Dioxide Portable Fire Extinguisher	21.75	
10 01 40 00-0008		Recharge Dry Chemical, Class ABC Portable Fire Extinguishers ^(10 01 40 00-0001)		
10 01 40 00-0009	EA	Recharge 2.5 LB Dry Chemical Portable Fire Extinguisher	17.36	
10 01 40 00-0010	EA	Recharge 5 LB Dry Chemical Portable Fire Extinguisher	21.02	
10 01 40 00-0011	EA	Recharge 10 LB Dry Chemical Portable Fire Extinguisher	29.70	
10 01 40 00-0012	EA	Recharge 20 LB Dry Chemical Portable Fire Extinguisher	46.88	
10 01 40 00-0013		Recharge Other Portable Fire Extinguishers ^(10 01 40 00-0001)		
10 01 40 00-0014	EA	Recharge 2.5 Gallon Pressurized Water Portable Fire Extinguisher	17.18	
10 01 40 00-0015	EA	Recharge 1.6 Gallon Wet Chemical Class K Fire Extinguisher.....	122.44	
10 01 40 00-0016	EA	Recharge 2.5 Gallon Wet Chemical Class K Fire Extinguisher.....	171.42	
10 01 40 00-0017	EA	Recharge 30 LB Dry Powder Class D Portable Fire Extinguisher.....	70.57	

10 40 Safety Specialties ⁽¹⁰⁾

10 41 Emergency Access And Information Cabinets ^(10 40)

10 41 13 Fire Department Plan Cabinets ^(10 41)

10 41 13 00-0001 Fire Department Plan Cabinets (Knox) ^(10 41 13)

10 41 13 00-0002	EA	18" High x 14-1/2" Wide x 5" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....		
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	59.36	
		For Swing Key Hook Panel, Add	158.36	
		For Non-Locking Weather Housing, Add	398.09	
10 41 13 00-0003	EA	18" High x 14-1/2" Wide x 7" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....	1,468.56	38.05
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	59.36	
		For Swing Key Hook Panel, Add	158.36	
		For Second Swing Key Hook Panel, Add	125.36	
		For Non-Locking Weather Housing, Add	398.09	

10 41 16 Emergency Key Cabinets ^(10 41)

10 41 16 00-0001 Emergency Key Cabinets (Knox) ^(10 41 16)

10 41 16 00-0002	EA	Elevator/Lobby, Deep Red Finish, Surface Mount, Fire Department Emergency Key Storage Box (Knox 1403).....		
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
10 41 16 00-0003	EA	5" High x 4" Wide x 3-3/4" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Box 3200).....	615.68	38.05
		For Lift-Off Door, Deduct	-40.00	
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	61.82	
		For Cast-In-Place Concrete Recess Mounting, Add	119.00	
10 41 16 00-0004	EA	6" High x 6" Wide x 4-1/2" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4100).....	818.55	38.05
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	61.82	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	130.00	
10 41 16 00-0005	EA	7" High x 7" Wide x 5" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4400).....	870.30	38.05
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	61.82	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	135.00	

10 Specialties**10 40 Safety Specialties****10 41 Emergency Access And Information Cabinets**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**10 44 Fire Protection Specialties** (10 40)**10 44 13 Fire Protection Cabinets** (10 44)10 44 13 00-0001 Fire Extinguisher Cabinets (10 44 13)10 44 13 00-0002 Recessed Fire Extinguisher Cabinets (10 44 13 00-0001)10 44 13 00-0003 Steel Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002)

Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0004	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	372.22	48.01
10 44 13 00-0005	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	378.25	48.01
10 44 13 00-0006	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	379.45	48.01
10 44 13 00-0007	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	416.83	48.01
10 44 13 00-0008	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	514.49	48.01
10 44 13 00-0009	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	527.75	48.01

10 44 13 00-0010 Aluminum Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002)

Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0011	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	367.91	48.01
10 44 13 00-0012	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	373.10	48.01
10 44 13 00-0013	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	381.76	48.01
10 44 13 00-0014	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	396.48	48.01
10 44 13 00-0015	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	441.91	48.01
10 44 13 00-0016	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	455.76	48.01

10 44 13 00-0017 Stainless Steel Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002)

Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0018	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	481.27	48.01
10 44 13 00-0019	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	492.06	48.01
10 44 13 00-0020	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	497.46	48.01
10 44 13 00-0021	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	534.36	48.01
10 44 13 00-0022	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	608.59	48.01
10 44 13 00-0023	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	631.09	48.01

10 44 13 00-0024 Bronze Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002)

Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0025	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	935.26	48.01
10 44 13 00-0026	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	941.32	48.01
10 44 13 00-0027	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	1,064.80	48.01

10 44 13 00-0028 Acrylic Bubble Door And Steel Trim, Recessed Fire Extinguisher Cabinets

(10 44 13 00-0002)

Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.

10 44 13 00-0029	EA	10-1/2" x 24" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	450.59	48.01
10 44 13 00-0030	EA	14" x 30" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	496.41	48.01

10 44 13 00-0031 Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0001)10 44 13 00-0032 Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)

Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0033	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	404.77	48.01
10 44 13 00-0034	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	416.83	48.01
10 44 13 00-0035	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	418.04	48.01
10 44 13 00-0036	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	459.03	48.01
10 44 13 00-0037	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	541.02	48.01
10 44 13 00-0038	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	554.28	48.01

10 44 13 00-0039 Aluminum Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)

Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0040	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	406.41	48.01
10 44 13 00-0041	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	419.40	48.01
10 44 13 00-0042	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	427.19	48.01
10 44 13 00-0043	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	441.91	48.01
10 44 13 00-0044	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	492.98	48.01
10 44 13 00-0045	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	505.10	48.01

10 44 13 00-0046 Stainless Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets

(10 44 13 00-0031)

Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.

10 44 13 00-0047	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	528.51	48.01
10 44 13 00-0048	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	541.10	48.01
10 44 13 00-0049	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	546.50	48.01



Specialties	10	10
Safety Specialties	10 40	
Fire Protection Specialties	10 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0050 EA 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	574.40	48.01
10 44 13 00-0051 EA 16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	643.69	48.01
10 44 13 00-0052 EA 20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet	658.98	48.01
10 44 13 00-0053 Bronze Door And Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)		
Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0054 EA 10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet	1,150.72	48.01
10 44 13 00-0055 EA 10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,155.80	48.01
10 44 13 00-0056 EA 12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,309.18	48.01
10 44 13 00-0057 Acrylic Bubble Door And Steel Trim, Semi Recessed Fire Extinguisher Cabinets (10 44 13 00-0031)		
Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0058 EA 10-1/2" x 24" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door	494.00	48.01
10 44 13 00-0059 EA 14" x 30" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door	537.40	48.01
10 44 13 00-0060 Surface Mounted Fire Extinguisher Cabinets (10 44 13 00-0001)		
10 44 13 00-0061 Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0062 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	395.13	48.01
10 44 13 00-0063 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	402.36	48.01
10 44 13 00-0064 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	460.24	48.01
10 44 13 00-0065 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	531.37	48.01
10 44 13 00-0066 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet	550.66	48.01
10 44 13 00-0067 Aluminum Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0068 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	488.65	48.01
10 44 13 00-0069 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	499.90	48.01
10 44 13 00-0070 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	525.01	48.01
10 44 13 00-0071 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	574.35	48.01
10 44 13 00-0072 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	595.13	48.01
10 44 13 00-0073 Stainless Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0074 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	606.79	48.01
10 44 13 00-0075 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	623.89	48.01
10 44 13 00-0076 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	666.18	48.01
10 44 13 00-0077 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	748.07	48.01
10 44 13 00-0078 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	773.26	48.01
10 44 13 00-0079 Bronze Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0080 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet	1,304.40	48.01
10 44 13 00-0081 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet	1,456.61	48.01
10 44 13 00-0082 Acrylic Bubble Door And Steel Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0083 EA 13-11/16" x 27-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	467.47	48.01
10 44 13 00-0084 EA 17-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	520.52	48.01
10 44 13 00-0085 EA 31-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	706.20	48.01
10 44 13 00-0086 Fire Extinguisher Cabinet Accessories (10 44 13 00-0001)		
10 44 13 00-0087 EA Standard Break Glass Cylinder Lock Mechanism.....	38.53	14.63
10 44 13 00-0088 EA Breaker Bar And Chain For Break Glass Cabinets.....	35.29	14.63
10 44 13 00-0089 EA Replacement Of Standard Pull Handle.....	33.32	
10 44 13 00-0090 EA Fire Extinguisher Cabinet Battery Operated Alarm.....	100.19	29.27
10 44 13 00-0091 EA Fire Rated Option For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets	185.28	
10 44 13 00-0092 EA Fire Rated Option For 12" x 27" x 7-3/4" Cabinets.....	203.81	
10 44 13 00-0093 EA Fire Rated Option For 16" x 32" x 7-3/4" Cabinets.....	277.92	
10 44 13 00-0094 EA Fire Rated Option For 20" x 27" x 7-3/4" Cabinets.....	379.82	
10 44 13 00-0095 EA Fire Rated Option For 9" x 18" x 5-1/2" Cabinets.....	444.67	
10 44 13 00-0096 EA Standard Glass With Wire Glass For 9" x 18" x 5-1/2" Cabinets.....	107.46	
10 44 13 00-0097 EA Standard Glass With Wire Glass For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets	111.17	
10 44 13 00-0098 EA Standard Glass With Wire Glass For 12" x 27" x 7-3/4" Cabinets.....	148.22	
10 44 13 00-0099 EA Standard Glass With Wire Glass For 16" x 32" x 7-3/4" Cabinets.....	268.66	
10 44 13 00-0100 EA Standard Glass With Wire Glass For 20" x 27" x 7-3/4" Cabinets.....	272.36	

10 Specialties**10 40 Safety Specialties****10 44 Fire Protection Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0101 EA Standard Glass With Wire Glass For 12-3/16" x 21-3/16" x 6" Cabinets.....	101.18	
10 44 13 00-0102 EA Standard Glass With Wire Glass For 13-11/16" x 27-3/16" x 6-1/2" Cabinets	106.24	
10 44 13 00-0103 EA Standard Glass With Wire Glass For 15-3/16" x 30-3/16" x 8-1/4" Cabinets	143.34	
10 44 13 00-0104 EA Standard Glass With Wire Glass For 19-3/16" x 35-3/16" x 8-1/4" Cabinets	252.94	
10 44 13 00-0105 EA Standard Glass With Wire Glass For 23-3/16" x 30-3/16" x 8-1/4" Cabinets	256.32	
10 44 13 00-0106 Fire Hose Cabinets (10 44 13)		
Note: Excludes hoses, hose rack units, fire extinguishers and valves. See CSI section 21 12 13 00-0001 for fire hoses and nozzles, 21 12 13 00-0015 for fire hose rack units, 21 12 23 00-0001 for fire department valves, 21 12 23 00-0014 for fire hose angle valves.		
10 44 13 00-0107 Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44 13 00-0108 Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)		
Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0109 EA 34" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	717.55	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0110 EA 34" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	728.97	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0111 EA 38" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	738.50	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0112 EA 38" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	748.02	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0113 EA 30" x 30" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	759.45	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0114 EA 38" x 32" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	789.90	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0115 EA 23" x 18" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet.....	799.43	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0116 Aluminum Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)		
Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0117 EA 34" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	776.78	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0118 EA 30" x 30" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	795.49	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0119 EA 34" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	797.92	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0120 EA 38" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	805.70	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0121 EA 38" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	815.91	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0122 EA 38" x 32" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	844.83	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0123 EA 23" x 18" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet.....	873.75	189.34
For Solid Aluminum Door, Add	6.50	
10 44 13 00-0124 Stainless Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)		
Note: Includes #4 finish, stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0125 EA 23" x 18" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	945.20	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0126 EA 34" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,033.67	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0127 EA 34" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,042.18	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0128 EA 38" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,069.40	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0129 EA 38" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,077.91	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0130 EA 30" x 30" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,122.14	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0131 EA 38" x 32" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet.....	1,166.37	189.34
For Solid Stainless Steel Door, Deduct	-7.70	
10 44 13 00-0132 Semi Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44 13 00-0133 Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132)		
Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0134 EA 34" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet	748.02	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0135 EA 34" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet	759.45	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0136 EA 38" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet	768.95	189.34
For Solid Steel Door, Deduct	-8.60	
10 44 13 00-0137 EA 38" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet	780.37	189.34
For Solid Steel Door, Deduct	-8.60	



Specialties	10
Safety Specialties	10 40
Fire Protection Specialties	10 44

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44	13 00-0138	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	789.90 -8.60	189.34
10 44	13 00-0139	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	820.35 -8.60	189.34
10 44	13 00-0140	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	831.78 -8.60	189.34
10 44	13 00-0141		Aluminum Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0142	EA	34" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	795.49 6.50	189.34
10 44	13 00-0143	EA	34" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	815.91 6.50	189.34
10 44	13 00-0144	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	818.82 6.50	189.34
10 44	13 00-0145	EA	38" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	824.41 6.50	189.34
10 44	13 00-0146	EA	38" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	834.62 6.50	189.34
10 44	13 00-0147	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	863.54 6.50	189.34
10 44	13 00-0148	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	892.46 6.50	189.34
10 44	13 00-0149		Stainless Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes #4 finish, 304 stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0150	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	997.94 -7.70	189.34
10 44	13 00-0151	EA	34" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,094.92 -7.70	189.34
10 44	13 00-0152	EA	34" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,103.43 -7.70	189.34
10 44	13 00-0153	EA	38" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,130.65 -7.70	189.34
10 44	13 00-0154	EA	38" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,139.15 -7.70	189.34
10 44	13 00-0155	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,183.39 -7.70	189.34
10 44	13 00-0156	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,227.62 -7.70	189.34
10 44	13 00-0157		Surface Mount Fire Hose Cabinets (10 44 13 00-0106)		
10 44	13 00-0158		Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes baked enamel finish, steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0159	EA	37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	759.45 -8.60	189.34
10 44	13 00-0160	EA	37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	768.95 -8.60	189.34
10 44	13 00-0161	EA	41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	780.37 -8.60	189.34
10 44	13 00-0162	EA	41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	789.90 -8.60	189.34
10 44	13 00-0163	EA	33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	799.43 -8.60	189.34
10 44	13 00-0164	EA	41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	831.78 -8.60	189.34
10 44	13 00-0165	EA	26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet <i>For Solid Steel Door, Deduct</i>	841.30 -8.60	189.34
10 44	13 00-0166		Aluminum Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes clear satin anodized finish, aluminum door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0167	EA	37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	844.83 6.50	189.34
10 44	13 00-0168	EA	33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	863.54 6.50	189.34
10 44	13 00-0169	EA	37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	868.40 6.50	189.34
10 44	13 00-0170	EA	41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	873.75 6.50	189.34
10 44	13 00-0171	EA	41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	882.26 6.50	189.34
10 44	13 00-0172	EA	41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	912.88 6.50	189.34
10 44	13 00-0173	EA	26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet <i>For Solid Aluminum Door, Add</i>	931.59 6.50	189.34

10 Specialties**10 40 Safety Specialties****10 44 Fire Protection Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0174			Stainless Steel Door And Trim, Surface Mount Fire Hose Cabinets <small>(10 44 13 00-0157)</small> Note: Includes #4 finish, 304 stainless steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44 13 00-0175	EA		26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,069.40	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0176	EA		37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,351.82	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0177	EA		41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,423.27	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0178	EA		37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,440.28	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0179	EA		41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,457.30	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0180	EA		33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,528.75	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 13 00-0181	EA		41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet.....	1,617.22	189.34
			<i>For Solid Stainless Steel Door, Deduct</i>	-7.70	
10 44 16			Fire Extinguishers <small>(10 44)</small>		
10 44 16 13			Portable Fire Extinguishers <small>(10 44 16)</small>		
			Note: Includes filling, certification, bracket, hardware and mounting on wall.		
10 44 16 13-0001			Carbon Dioxide Type, Class BC Portable Fire Extinguisher <small>(10 44 16 13)</small>		
10 44 16 13-0002	EA		2.5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	151.58	15.22
			<i>For >5 To 10, Deduct</i>	-3.68	
			<i>For >10, Deduct</i>	-7.35	
			<i>For Placement In Cabinet, Deduct</i>	-39.03	
10 44 16 13-0003	EA		5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	211.58	17.56
			<i>For >5 To 10, Deduct</i>	-6.08	
			<i>For >10, Deduct</i>	-12.15	
			<i>For Placement In Cabinet, Deduct</i>	-45.03	
10 44 16 13-0004	EA		10 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	275.18	22.25
			<i>For >5 To 10, Deduct</i>	-7.91	
			<i>For >10, Deduct</i>	-15.81	
			<i>For Placement In Cabinet, Deduct</i>	-58.54	
10 44 16 13-0005	EA		15 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	339.72	28.09
			<i>For >5 To 10, Deduct</i>	-9.67	
			<i>For >10, Deduct</i>	-19.34	
			<i>For Placement In Cabinet, Deduct</i>	-73.17	
10 44 16 13-0006	EA		20 LB Carbon Dioxide, Type BC Portable Fire Extinguisher.....	371.31	28.09
			<i>For >5 To 10, Deduct</i>	-11.25	
			<i>For >10, Deduct</i>	-22.50	
			<i>For Placement In Cabinet, Deduct</i>	-73.17	
10 44 16 13-0007	EA		50 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....	1,095.83	44.48
			<i>For >5 To 10, Deduct</i>	-43.08	
			<i>For >10, Deduct</i>	-86.17	
10 44 16 13-0008	EA		100 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher.....	2,056.25	44.48
			<i>For >5 To 10, Deduct</i>	-91.11	
			<i>For >10, Deduct</i>	-182.21	
10 44 16 13-0009			Dry Chemical Type, Class ABC Portable Fire Extinguisher <small>(10 44 16 13)</small>		
10 44 16 13-0010	EA		2.6 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	106.09	15.22
			<i>For >5 To 10, Deduct</i>	-1.40	
			<i>For >10, Deduct</i>	-2.80	
			<i>For Placement In Cabinet, Deduct</i>	-39.03	
10 44 16 13-0011	EA		5 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	129.82	17.56
			<i>For >5 To 10, Deduct</i>	-1.99	
			<i>For >10, Deduct</i>	-3.98	
			<i>For Placement In Cabinet, Deduct</i>	-45.03	
10 44 16 13-0012	EA		10 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	180.37	22.25
			<i>For >5 To 10, Deduct</i>	-3.17	
			<i>For >10, Deduct</i>	-6.33	
			<i>For Placement In Cabinet, Deduct</i>	-58.54	
10 44 16 13-0013	EA		20 LB Dry Chemical, Type ABC Portable Fire Extinguisher.....	245.97	28.09
			<i>For >5 To 10, Deduct</i>	-4.98	
			<i>For >10, Deduct</i>	-9.96	
			<i>For Placement In Cabinet, Deduct</i>	-73.17	
10 44 16 13-0014	EA		50 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....	1,294.50	44.48
			<i>For >5 To 10, Deduct</i>	-53.02	
			<i>For >10, Deduct</i>	-106.04	
10 44 16 13-0015	EA		125 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher.....	1,875.22	44.48
			<i>For >5 To 10, Deduct</i>	-82.05	
			<i>For >10, Deduct</i>	-164.11	
10 44 16 13-0016			Other Portable Fire Extinguishers <small>(10 44 16 13)</small>		



Specialties	10	10
Safety Specialties	10 40	
Fire Protection Specialties	10 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 16 13-0017 EA 2.5 Gallon Water, Stored Pressure Portable Fire Extinguisher.....	171.61	17.56
Note: Stainless steel.		
For >5 To 10, Deduct	-4.08	
For >10, Deduct	-8.16	
For Placement In Cabinet, Deduct	-45.03	
10 44 16 13-0018 EA 1.6 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....	264.04	28.09
Note: Stainless steel.		
For >5 To 10, Deduct	-5.89	
For >10, Deduct	-11.77	
For Placement In Cabinet, Deduct	-73.17	
10 44 16 13-0019 EA 1.6 Gallon Wet Chemical, Class K Portable Fire Extinguisher.....	276.86	28.09
Note: Stainless steel.		
For >5 To 10, Deduct	-6.53	
For >10, Deduct	-13.05	
For Placement In Cabinet, Deduct	-73.17	
10 44 16 13-0020 EA 30 LB Dry Powder, Class D Portable Fire Extinguisher.....	365.44	28.09
Note: Yellow steel.		
For >5 To 10, Deduct	-10.96	
For >10, Deduct	-21.91	
10 44 16 13-0021 Fire Extinguisher Backboards <small>(10 44 16 13)</small>		
10 44 16 13-0022 Fire Extinguisher Backboards <small>(10 44 16 13-0021)</small>		
Note: Mounted to any wall. Includes anchors.		
10 44 16 13-0023 EA Red Painted 1/2" x 12" x 40" Beveled Edge Plywood Fire Extinguisher Backboard.....	125.37	20.04
10 44 16 13-0024 EA Relocate Fire Extinguisher Wood Backboard, Any Size.....	176.88	
Note: Includes storage and cleaning.		
10 44 16 13-0025 Inspections And Testing <small>(10 44 16 13)</small>		
10 44 16 13-0026 EA On Site Fire Extinguisher Annual Inspection (Tag).....	5.88	
10 44 16 13-0027 EA On Site Fire Extinguisher Hydrotest.....	8.64	
10 44 19 Fire Blankets <small>(10 44)</small>		
10 44 19 00-0001 EA Vertical Roller Type Fire Blanket Cabinet (JL Industries 1FB).....	452.92	48.01
Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.		
10 44 19 00-0002 EA Drop Type Fire Blanket Cabinet (JL Industries 2FB).....	338.38	48.01
Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.		

END OF SECTION 10

10	10	Specialties
	10 40	Safety Specialties
	10 44	Fire Protection Specialties



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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Equipment	11	
Commercial Equipment	11 20	11
Retail and Service Equipment	11 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 20 Commercial Equipment ⁽¹¹⁾

11 21 Retail and Service Equipment ^(11 20)

11 21 63 Refrigerated Display Equipment ^(11 21)

11 21 63 00-0001 Dairy Products ^(11 21 63)

11 21 63 00-0002 Refrigerated Dairy Case ^(11 21 63 00-0001)

11 21 63 00-0003	LF	Refrigerated Case, Dairy, Multi-Deck <i>For Rear Sliding Doors, Add</i>	2,035.10	422.67
			19.95	

11 21 63 00-0004 Refrigerated Milk Unit ^(11 21 63 00-0001)

11 21 63 00-0005	EA	46" x 32" x 49-1/2" Capacity: 12, 13" x 13" x 11" Refrigerated Milk Unit.....	9,138.83	307.09
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11 21 63 00-0006 Refrigerated Ice Cream And Milk Dispenser ^(11 21 63 00-0001)

11 21 63 00-0007	EA	63-1/2" x 28-1/2" x 35-3/8" Refrigerated Ice Cream And Milk Dispenser.....	10,131.73	337.25
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11 21 63 00-0008 Ice Cream Dispenser ^(11 21 63 00-0001)

11 21 63 00-0009	EA	46" x 28-1/2" x 35-3/8" Refrigerated Ice Cream Dispenser.....	8,462.75	283.96
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11 21 63 00-0010 Drop-In Ice Cream Freezer ^(11 21 63 00-0001)

11 21 63 00-0011	EA	27-7/8" x 16-9/16" x 28-1/4" 6 Gallon Drop-In Ice Cream Freezer.....	2,110.45	70.67
11 21 63 00-0012	EA	30" x 27-7/8" x 28-1/4" 12 Gallon Drop-In Ice Cream Freezer.....	2,757.82	92.41

11 21 63 00-0013 Ice Cream Cabinets ^(11 21 63 00-0001)

11 21 63 00-0014	EA	46" x 32" x 42", 24 Gallon Ice Cream Cabinet.....	6,609.77	220.85
11 21 63 00-0015	EA	68" x 32" x 42", 48 Gallon Ice Cream Cabinet.....	9,417.12	318.73

11 21 63 00-0016 Delicatessen Case, Service Deli ^(11 21 63)

11 21 63 00-0017	LF	Delicatessen Case, Single-Deck.....	1,985.24	352.23
11 21 63 00-0018	LF	Delicatessen Case, Multi-Deck.....	2,242.76	422.67
11 21 63 00-0019	EA	Delicatessen Case, 3 Shelf, 32" x 23" x 23".....	2,420.91	82.54

11 21 63 00-0020 Meat Case ^(11 21 63)

11 21 63 00-0021	LF	Meat Case, Single - Deck.....	1,519.81	422.67
11 21 63 00-0022	LF	Meat Case, Multi - Deck.....	1,643.98	422.67

11 21 63 00-0023 Produce Case ^(11 21 63)

11 21 63 00-0024	LF	Single Deck Produce Case.....	1,577.39	422.67
11 21 63 00-0025	LF	Multi-Deck Produce Case.....	1,735.84	422.67

11 21 63 00-0026 Bottle Coolers ^(11 21 63)

11 21 63 00-0027	EA	Bottle Cooler, 6' Long.....	5,802.07	1,408.90
11 21 63 00-0028	EA	Bottle Cooler, 10' Long.....	8,830.09	2,113.34

11 21 63 00-0029 Cold Pan Units ^(11 21 63)

11 21 63 00-0030	EA	5" x 48", Iced, Cold Pan Units.....	3,382.75	112.46
11 21 63 00-0031	EA	5" x 72", Iced, Cold Pan Units.....	4,700.11	157.33
11 21 63 00-0032	EA	8" x 72", Iced, Cold Pan Units.....	5,557.24	186.08
11 21 63 00-0033	EA	5" x 48", Mechanical, Cold Pan Units.....	5,713.34	192.25
11 21 63 00-0034	EA	8" x 48", Mechanical, Cold Pan Units.....	6,217.87	207.53
11 21 63 00-0035	EA	8" x 72", Mechanical, Cold Pan Units.....	7,387.78	245.26

11 21 63 00-0036 Cold Cabinets (Insulated) ^(11 21 63)

11 21 63 00-0037	EA	69-3/4" x 32" x 24", Insulated Cold Cabinet.....	3,070.31	97.32
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11 30 Residential Equipment ⁽¹¹⁾

11 32 Unit Kitchens ^(11 30)

11 32 13 Metal Unit Kitchens ^(11 32)

11	11 Equipment
	11 30 Residential Equipment
	11 32 Unit Kitchens



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Note: Includes electrical hook-up to outlet, supply line connection to service stops, and drain line and p-trap. Excludes garbage disposer and hood exhaust vent piping.

11 32 13 00-001	30" Compact Kitchen <small>(11 32 13)</small>		
11 32 13 00-0002	EA 30" Compact Unit Kitchen With Refrigerator, Range And Sink.....	2,399.67	704.21
	<i>For Gas Unit, Add</i>	<i>219.11</i>	
11 32 13 00-0003	EA 30" Compact Unit Kitchen With Refrigerator And Sink.....	1,944.19	492.95
11 32 13 00-0004	EA 30" Compact Unit Kitchen With Refrigerator And Range.....	1,752.91	422.53
11 32 13 00-0005	EA 30" Compact Unit Kitchen Cabinet For Upper Wall Section.....	552.97	351.23
11 32 13 00-0006	EA 30" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section.....	1,039.08	234.15
	<i>For Range Hood In Upper Section, Add</i>	<i>179.00</i>	
11 32 13 00-0007	EA 30" Compact Unit Kitchen Stainless Steel Shield For Rear Wall.....	62.99	15.78
11 32 13 00-0008	EA 30" Compact Unit Kitchen Stainless Steel Shield For Side Wall.....	57.41	15.78
11 32 13 00-0009	42" Compact Kitchen <small>(11 32 13)</small>		
11 32 13 00-0010	EA 42" Compact Unit Kitchen With Refrigerator, Range And Sink.....	2,753.01	774.64
	<i>For Gas Unit, Add</i>	<i>258.02</i>	
11 32 13 00-0011	EA 42" Compact Unit Kitchen With Refrigerator And Sink.....	2,424.26	633.79
11 32 13 00-0012	EA 42" Compact Unit Kitchen Cabinet For Upper Wall Section.....	683.86	199.03
11 32 13 00-0013	EA 42" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section.....	1,199.32	263.42
	<i>For Range Hood In Upper Section, Add</i>	<i>179.00</i>	
11 32 13 00-0014	EA 42" Compact Unit Kitchen Stainless Steel Shield For Rear Wall.....	74.53	15.78
11 32 13 00-0015	EA 42" Compact Unit Kitchen Stainless Steel Shield For Side Wall.....	63.53	15.78
11 32 13 00-0016	54" Compact Kitchen <small>(11 32 13)</small>		
11 32 13 00-0017	EA 54" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink.....	3,669.81	985.91
	<i>For Gas Unit, Add</i>	<i>353.29</i>	
11 32 13 00-0018	EA 54" Compact Unit Kitchen Cabinet For Upper Wall Section.....	838.17	117.07
11 32 13 00-0019	EA 54" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section.....	1,333.51	292.70
	<i>For Range Hood In Upper Section, Add</i>	<i>179.00</i>	
11 32 13 00-0020	EA 54" Compact Unit Kitchen Stainless Steel Shield For Rear Wall.....	86.16	15.78
11 32 13 00-0021	EA 54" Compact Unit Kitchen Stainless Steel Shield For Side Wall.....	66.52	15.78
11 32 13 00-0022	60" Compact Kitchen <small>(11 32 13)</small>		
11 32 13 00-0023	EA 60" Compact Unit Kitchen With Refrigerator, Oven, Range, And Sink.....	3,877.90	1,056.32
	<i>For Gas Unit, Add</i>	<i>370.42</i>	
11 32 13 00-0024	EA 60" Compact Unit Kitchen Cabinet For Upper Wall Section.....	1,005.68	292.70
11 32 13 00-0025	EA 60" Compact Unit Kitchen Stainless Steel Shield For Rear Wall.....	90.87	15.78
11 32 13 00-0026	EA 60" Compact Unit Kitchen Stainless Steel Shield For Side Wall.....	66.52	15.78
11 32 13 00-0027	72" Compact Kitchen <small>(11 32 13)</small>		
11 32 13 00-0028	EA 72" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink.....	4,153.24	1,126.75
	<i>For Gas Unit, Add</i>	<i>397.64</i>	
11 32 13 00-0029	EA 72" Compact Unit Kitchen Cabinet For Upper Wall Section.....	1,223.62	351.23
11 32 13 00-0030	EA 72" Compact Unit Kitchen Stainless Steel Shield For Rear Wall.....	105.46	19.73
11 32 13 00-0031	EA 72" Compact Unit Kitchen Stainless Steel Shield For Side Wall.....	70.10	19.73

11 40 Foodservice Equipment (11)

11 41 Foodservice Storage Equipment (11 40)

11 41 13 Refrigerated Food Storage Cases (11 41)

11 41 13 00-0001	Frozen Food Cases <small>(11 41 13)</small>		
11 41 13 00-0002	LF Chest Type Frozen Food Case.....	1,567.22	422.67
11 41 13 00-0003	LF Reach-in Frozen Food Case (Glass Door).....	2,884.56	422.67
11 41 13 00-0004	LF Island Type Frozen Food Case.....	1,795.61	422.67
11 41 13 00-0005	LF Multi-Deck Frozen Food Case.....	2,774.03	422.67

11 41 13 00-0006	Reach-In Refrigerators <small>(11 41 13)</small>		
11 41 13 00-0007	EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator.....	4,816.95	183.63
11 41 13 00-0008	EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator.....	5,935.06	231.60
11 41 13 00-0009	EA Three Section, 69.1 CF, Full Door, Self Contained, Reach-In Refrigerator.....	7,912.49	255.87
11 41 13 00-0010	EA Single Section, Glass Door, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator.....	4,853.12	183.63
11 41 13 00-0011	EA Two Section, Glass Door, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator.....	6,312.04	231.60
11 41 13 00-0012	EA Three Section, Glass Door, 61.1 CF, Full Door, Self Contained, Reach-In Refrigerator.....	8,381.44	255.87
11 41 13 00-0013	EA Single Section, Pass-Thru, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator.....	5,774.55	183.63
11 41 13 00-0014	EA Two Section, Pass-Thru, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator.....	7,806.00	231.60
11 41 13 00-0015	EA Single Section, Pass-Thru, Glass Door, 25.6 CF, Full Door, Self Contained, Reach-In Refrigerator.....	6,571.13	183.63
11 41 13 00-0016	EA Two Section, Pass-Thru, Glass Door, 48.8 CF, Full Door, Self Contained, Reach-In Refrigerator.....	9,459.70	231.60

11 41 13 00-0017	Reach-In Freezers <small>(11 41 13)</small>		
11 41 13 00-0018	EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Freezer.....	5,410.82	183.85
11 41 13 00-0019	EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Freezer.....	7,170.82	231.27



	Equipment	11
	Foodservice Equipment	11 40
	Foodservice Storage Equipment	11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23			Walk-In-Coolers ^(11 41)		
11 41 23 00-0001			Walk-In Refrigerated Boxes ^(11 41 23) Note: Overall height includes 4" floor panel and 4" ceiling panel. See CSI section 11 41 23 00-0171 for air cooled condensing units for coolers and freezers, 11 41 23 00-0282 for accessories, 21 13 16 00-0000 for dry-pipe sprinkler heads, 26 50 00 00-0000 for lighting.		
11 41 23 00-0002			Walk-In Refrigerated Unit, 7'6" High With Floor ^(11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.		
11 41 23 00-0003	EA		6' x 6' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	7,772.16	1,415.02
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,471.28	
11 41 23 00-0004	EA		6' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,235.00	1,591.90
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,778.12	
11 41 23 00-0005	EA		6' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,823.94	1,768.78
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,866.39	
11 41 23 00-0006	EA		6' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,173.64	2,122.53
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,086.28	
11 41 23 00-0007	EA		6' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,904.12	2,476.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,401.04	
11 41 23 00-0008	EA		6' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,314.86	2,830.04
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,635.20	
11 41 23 00-0009	EA		6' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,702.41	3,183.80
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,864.34	
11 41 23 00-0010	EA		8' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,184.42	1,768.78
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,956.51	
11 41 23 00-0011	EA		8' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,151.11	1,945.66
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,139.40	
11 41 23 00-0012	EA		8' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,622.78	2,299.41
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,388.88	
11 41 23 00-0013	EA		8' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,502.27	2,653.17
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,741.18	
11 41 23 00-0014	EA		8' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,993.72	3,006.92
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,996.48	
11 41 23 00-0015	EA		8' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,528.99	3,360.68
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,261.82	
11 41 23 00-0016	EA		8' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,018.44	3,714.43
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,517.12	
11 41 23 00-0017	EA		8' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,550.27	4,068.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,781.14	
11 41 23 00-0018	EA		8' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,046.99	4,421.94
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,037.77	
11 41 23 00-0019			Walk-In Refrigerated Unit, 7'6" High With Floor ^(11 41 23 00-0001) Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.		
11 41 23 00-0020	EA		10' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	12,596.56	2,122.53
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,442.01	
11 41 23 00-0021	EA		10' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,186.44	2,476.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,721.62	
11 41 23 00-0022	EA		10' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,839.27	2,830.04
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,016.30	
11 41 23 00-0023	EA		10' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,408.64	3,183.80
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,290.89	
11 41 23 00-0024	EA		10' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,080.22	3,537.56
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,591.92	
11 41 23 00-0025	EA		10' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,652.87	3,891.31
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,865.19	
11 41 23 00-0026	EA		10' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,328.26	4,245.07
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,167.80	

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0027 EA 10' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,890.63	4,598.83
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,440.80	
11 41 23 00-0028 EA 10' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,567.23	4,952.59
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,741.83	
11 41 23 00-0029 EA 10' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,140.79	5,306.34
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,016.42	
11 41 23 00-0030 EA 10' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,051.37	5,836.98
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,317.70	
11 41 23 00-0031 EA 10' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,839.43	6,367.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,590.71	
11 41 23 00-0032 EA 12' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,628.13	2,653.17
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,022.64	
11 41 23 00-0033 EA 12' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,436.72	3,006.92
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,357.23	
11 41 23 00-0034 EA 12' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,114.71	3,360.68
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,658.25	
11 41 23 00-0035 EA 12' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,914.95	3,714.43
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,991.25	
11 41 23 00-0036 EA 12' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,601.13	4,068.19
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,293.86	
11 41 23 00-0037 EA 12' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,402.31	4,421.94
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,626.60	
11 41 23 00-0038 EA 12' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,072.99	4,775.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,927.62	
11 41 23 00-0039 EA 12' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,886.88	5,129.47
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,262.20	
11 41 23 00-0040 EA 12' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,684.75	5,571.66
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,563.23	
11 41 23 00-0041 EA 12' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,723.46	6,102.29
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,896.23	
11 41 23 00-0042 EA 12' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,639.24	6,632.93
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,198.84	
11 41 23 00-0043 EA 12' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,670.06	7,163.56
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,531.57	
11 41 23 00-0044 EA 12' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,574.27	7,694.19
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,832.59	
11 41 23 00-0045 Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small>		
Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.		
11 41 23 00-0046 EA 14' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,444.76	3,183.80
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,049.92	
11 41 23 00-0047 EA 14' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,439.82	3,537.56
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,431.82	
11 41 23 00-0048 EA 14' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,589.67	3,891.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,849.39	
11 41 23 00-0049 EA 14' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,583.27	4,245.07
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,231.55	
11 41 23 00-0050 EA 14' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,717.55	4,598.83
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,647.53	
11 41 23 00-0051 EA 14' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,725.04	4,952.59
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,031.28	
11 41 23 00-0052 EA 14' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,864.17	5,306.34
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,447.26	
11 41 23 00-0053 EA 14' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,098.24	5,836.98
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,829.42	



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0054 EA 14' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,464.55	6,367.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,246.99	
11 41 23 00-0055 EA 14' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,727.94	6,898.24
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,628.89	
11 41 23 00-0056 EA 14' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,080.44	7,428.88
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,045.14	
11 41 23 00-0057 EA 14' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,327.15	7,871.07
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,428.62	
11 41 23 00-0058 Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.</small>		
11 41 23 00-0059 EA 16' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,468.02	3,714.43
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,879.52	
11 41 23 00-0060 EA 16' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,750.43	4,068.19
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,331.18	
11 41 23 00-0061 EA 16' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,961.78	4,421.94
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,766.46	
11 41 23 00-0062 EA 16' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,241.37	4,775.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,219.71	
11 41 23 00-0063 EA 16' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,458.04	5,129.47
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,654.99	
11 41 23 00-0064 EA 16' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,858.48	5,571.66
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,106.66	
11 41 23 00-0065 EA 16' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,312.65	6,102.29
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,543.52	
11 41 23 00-0066 EA 16' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	40,824.65	6,632.93
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,995.19	
11 41 23 00-0067 EA 16' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	43,265.65	7,163.56
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,430.47	
11 41 23 00-0068 EA 16' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	45,778.77	7,694.19
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,883.72	
11 41 23 00-0069 EA 18' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,585.50	4,245.07
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,732.11	
11 41 23 00-0070 EA 18' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,920.64	4,598.83
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,198.31	
11 41 23 00-0071 EA 18' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,371.07	4,952.59
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,692.79	
11 41 23 00-0072 EA 18' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	35,705.78	5,306.34
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,157.67	
11 41 23 00-0073 EA 18' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,394.42	5,836.98
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,653.47	
11 41 23 00-0074 EA 18' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	40,949.96	6,367.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,118.35	
11 41 23 00-0075 EA 18' x 30' Walk-in Refrigerated Box, 7' 6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	43,663.69	6,898.24
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,612.83	
11 41 23 00-0076 EA 18' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	46,215.99	7,428.88
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,079.03	
11 41 23 00-0077 EA 18' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	48,906.70	7,959.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,573.51	
11 41 23 00-0078 EA 18' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	51,689.07	8,608.07
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,038.39	
11 41 23 00-0079 Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.</small>		
11 41 23 00-0080 EA 6' x 6' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	8,154.84	1,415.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,566.95	

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0081	EA		6' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,383.00	1,591.90
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,815.12	
11 41 23 00-0082	EA		6' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,310.22	1,768.78
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,987.96	
11 41 23 00-0083	EA		6' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,731.82	2,122.53
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,225.82	
11 41 23 00-0084	EA		6' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,494.01	2,476.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,548.51	
11 41 23 00-0085	EA		6' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,976.64	2,830.04
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,800.64	
11 41 23 00-0086	EA		6' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,395.89	3,183.80
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,037.71	
11 41 23 00-0087	EA		8' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,710.88	1,768.78
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,088.13	
11 41 23 00-0088	EA		8' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,709.28	1,945.66
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,278.94	
11 41 23 00-0089	EA		8' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,252.84	2,299.41
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,546.40	
11 41 23 00-0090	EA		8' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,164.04	2,653.17
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,906.62	
11 41 23 00-0091	EA		8' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,727.38	3,006.92
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,179.89	
11 41 23 00-0092	EA		8' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,294.37	3,360.68
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,453.17	
11 41 23 00-0093	EA		8' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,855.69	3,714.43
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,726.44	
11 41 23 00-0094	EA		8' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,419.25	4,068.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,998.39	
11 41 23 00-0095	EA		8' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,987.85	4,421.94
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,272.98	
11 41 23 00-0096			Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small> Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.		
11 41 23 00-0097	EA		10' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,186.45	2,122.53
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,589.48	
11 41 23 00-0098	EA		10' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,848.21	2,476.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,887.06	
11 41 23 00-0099	EA		10' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,532.75	2,830.04
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,189.67	
11 41 23 00-0100	EA		10' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,174.01	3,183.80
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,482.24	
11 41 23 00-0101	EA		10' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,877.30	3,537.56
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,791.19	
11 41 23 00-0102	EA		10' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,521.84	3,891.31
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,082.43	
11 41 23 00-0103	EA		10' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,228.94	4,245.07
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,392.97	
11 41 23 00-0104	EA		10' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,863.20	4,598.83
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,683.95	
11 41 23 00-0105	EA		10' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,571.51	4,952.59
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,992.90	
11 41 23 00-0106	EA		10' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,216.96	5,306.34
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,285.46	
11 41 23 00-0107	EA		10' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,159.26	5,836.98
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,594.68	



Equipment	11	
Foodservice Equipment	11 40	11
Foodservice Storage Equipment	11 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0108	EA		10' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,019.20	6,279.17
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,885.66	
11 41 23 00-0109	EA		12' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,361.79	2,653.17
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,206.06	
11 41 23 00-0110	EA		12' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,202.10	3,006.92
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,548.57	
11 41 23 00-0111	EA		12' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,951.97	3,360.68
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,867.57	
11 41 23 00-0112	EA		12' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,783.93	3,714.43
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,208.50	
11 41 23 00-0113	EA		12' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,541.99	4,068.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,529.07	
11 41 23 00-0114	EA		12' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,374.88	4,421.94
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,869.74	
11 41 23 00-0115	EA		12' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,117.45	4,775.71
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,188.73	
11 41 23 00-0116	EA		12' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,963.06	5,129.47
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,531.25	
11 41 23 00-0117	EA		12' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,832.81	5,571.66
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,850.24	
11 41 23 00-0118	EA		12' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,903.24	6,102.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,191.17	
11 41 23 00-0119	EA		12' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,890.90	6,632.93
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,511.75	
11 41 23 00-0120	EA		12' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,953.44	7,163.56
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,852.42	
11 41 23 00-0121	EA		12' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,929.53	7,694.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,171.41	
11 41 23 00-0122			Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small> Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.		
11 41 23 00-0123	EA		14' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,241.85	3,183.80
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,249.20	
11 41 23 00-0124	EA		14' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,308.80	3,537.56
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,649.06	
11 41 23 00-0125	EA		14' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,490.36	3,891.31
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,074.56	
11 41 23 00-0126	EA		14' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,555.84	4,245.07
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,474.69	
11 41 23 00-0127	EA		14' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,721.84	4,598.83
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,898.61	
11 41 23 00-0128	EA		14' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,801.21	4,952.59
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,300.32	
11 41 23 00-0129	EA		14' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	33,972.06	5,306.34
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,724.24	
11 41 23 00-0130	EA		14' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,278.02	5,836.98
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,124.37	
11 41 23 00-0131	EA		14' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,676.04	6,367.61
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,549.87	
11 41 23 00-0132	EA		14' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	41,011.31	6,898.24
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,949.73	
11 41 23 00-0133	EA		14' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	43,395.53	7,428.88
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,373.91	
11 41 23 00-0134	EA		14' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	45,714.12	7,959.51
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,775.36	

11 Equipment
11 40 Foodservice Equipment
11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 41 23 00-0135	Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small>				
Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.					
11 41 23 00-0136	EA	16' x 16'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,408.88	3,714.43
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,114.73	
11 41 23 00-0137	EA	16' x 18'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,723.00	4,068.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,574.33	
11 41 23 00-0138	EA	16' x 20'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,006.24	4,421.94
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,027.58	
11 41 23 00-0139	EA	16' x 22'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,317.54	4,775.71
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,488.76	
11 41 23 00-0140	EA	16' x 24'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,606.10	5,129.47
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,942.01	
11 41 23 00-0141	EA	16' x 26'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	37,038.25	5,571.66
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,401.60	
11 41 23 00-0142	EA	16' x 28'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,564.31	6,102.29
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,856.44	
11 41 23 00-0143	EA	16' x 30'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,108.02	6,632.93
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,316.03	
11 41 23 00-0144	EA	16' x 32'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,620.91	7,163.56
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,769.28	
11 41 23 00-0145	EA	16' x 34'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	47,165.75	7,694.19
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,230.46	
11 41 23 00-0146	EA	18' x 18'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,589.79	4,245.07
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,983.18	
11 41 23 00-0147	EA	18' x 20'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,996.82	4,598.83
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,467.35	
11 41 23 00-0148	EA	18' x 22'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,478.96	4,952.59
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,969.76	
11 41 23 00-0149	EA	18' x 24'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,885.55	5,306.34
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,452.61	
11 41 23 00-0150	EA	18' x 26'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,605.91	5,836.98
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,956.34	
11 41 23 00-0151	EA	18' x 28'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,233.33	6,367.61
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,439.19	
11 41 23 00-0152	EA	18' x 30'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,978.78	6,898.24
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,941.60	
11 41 23 00-0153	EA	18' x 32'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	47,602.97	7,428.88
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,425.77	
11 41 23 00-0154	EA	18' x 34'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	50,325.39	7,959.51
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,928.18	
11 41 23 00-0155	EA	18' x 36'	Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	53,179.64	8,608.07
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,411.03	

11 41 23 00-0156	Walk-In Refrigerated Unit Metal Price Add-Ons <small>(11 41 23 00-0001)</small>				
11 41 23 00-0157	SF		Metal Price Add-on, 190 Series Embossed White Polyester vs. 24 Gauge Galvalume®	0.45	
11 41 23 00-0158	SF		Metal Price Add-ons, 24 Gauge White Polyester vs. 24 Gauge Galvalume®	0.83	
11 41 23 00-0159	SF		Metal Price Add-ons, 0.038" Stucco Embossed Aluminum vs. 24 Gauge Galvalume®	1.17	
11 41 23 00-0160	SF		Metal Price Add-ons, 22 Gauge Stainless Steel vs. 24 Gauge Galvalume®	8.25	
11 41 23 00-0161	SF		Metal Price Add-ons, 20 Gauge Stainless Steel vs. 24 Gauge Galvalume®	10.78	
11 41 23 00-0162	SF		Metal Price Add-ons, 24 Gauge Embossed Tan Polyester vs. 24 Gauge Galvalume®	1.33	
11 41 23 00-0163	SF		Metal Price Add-ons, 0.040" Embossed White Aluminum vs. 24 Gauge Galvalume®	3.27	
11 41 23 00-0164	SF		Metal Price Add-ons, 0.040" Smooth White Aluminum vs. 24 Gauge Galvalume®	4.23	
11 41 23 00-0165	SF		Metal Price Add-ons, 24 Gauge Smooth Kynar® Painted vs. 24 Gauge Galvalume®	4.44	
11 41 23 00-0166	SF		Metal Price Deducts, 14 GA Galvanized vs. 10 Gauge Smooth Aluminum Interior Floor	-5.95	
11 41 23 00-0167	SF		Metal Price Add-ons, 16 GA Stainless Steel Type 430 vs. 10 Gauge Smooth Aluminum Interior Floor	2.49	
11 41 23 00-0168	SF		Metal Price Add-ons, 16 GA Stainless Steel Type 304 vs. 10 Gauge Smooth Aluminum Interior Floor	6.45	
11 41 23 00-0169	SF		Metal Price Add-ons, 12 GA Rigid Aluminum vs. 10 Gauge Smooth Aluminum Interior Floor	5.66	
11 41 23 00-0170	SF		Metal Price Add-ons, 16 GA Rigid Stainless Steel vs. 10 Gauge Smooth Aluminum Interior Floor	18.34	

11 41 23 00-0171 Air Cooled Condensing Units For Walk-In Coolers And Freezers (11 41 23)



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0172 Medium Temperature Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0173 208/230 Volt, 1 Phase <small>(11 41 23 00-0172)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0174 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,188.21	194.51
11 41 23 00-0175 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,384.63	226.94
11 41 23 00-0176 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,898.19	259.35
11 41 23 00-0177 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,214.25	291.77
11 41 23 00-0178 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,644.83	324.19
11 41 23 00-0179 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,240.35	389.02
11 41 23 00-0180 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,058.81	453.86
11 41 23 00-0181 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,598.20	518.70
11 41 23 00-0182 208/230 Volt, 3 Phase <small>(11 41 23 00-0172)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0183 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,903.42	259.35
11 41 23 00-0184 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,214.25	291.77
11 41 23 00-0185 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,691.94	324.19
11 41 23 00-0186 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,184.26	389.02
11 41 23 00-0187 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	7,058.81	453.86
11 41 23 00-0188 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	7,533.14	518.70
11 41 23 00-0189 Medium Temperature Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0190 208/230 Volt, 1 Phase <small>(11 41 23 00-0189)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0191 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,405.08	194.51
11 41 23 00-0192 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,758.55	226.94
11 41 23 00-0193 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,332.68	259.35
11 41 23 00-0194 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,530.59	291.77
11 41 23 00-0195 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,871.42	324.19
11 41 23 00-0196 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,563.42	389.02
11 41 23 00-0197 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,387.12	453.86
11 41 23 00-0198 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,928.75	518.70
11 41 23 00-0199 208/230 Volt, 3 Phase <small>(11 41 23 00-0189)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0200 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,305.01	259.35
11 41 23 00-0201 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,541.81	291.77
11 41 23 00-0202 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,929.75	324.19
11 41 23 00-0203 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,508.08	389.02
11 41 23 00-0204 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,404.32	453.86
11 41 23 00-0205 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,859.94	518.70
11 41 23 00-0206 Low Temperature Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0207 208/230 Volt, 1 Phase <small>(11 41 23 00-0206)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0208 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	389.04	194.51
11 41 23 00-0209 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,754.07	226.94
11 41 23 00-0210 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,950.54	259.35
11 41 23 00-0211 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,230.71	291.77
11 41 23 00-0212 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,608.18	324.19
11 41 23 00-0213 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,446.01	389.02
11 41 23 00-0214 208/230 Volt, 3 Phase <small>(11 41 23 00-0206)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0215 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,955.77	259.35
11 41 23 00-0216 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,230.71	291.77
11 41 23 00-0217 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,656.79	324.19
11 41 23 00-0218 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,392.16	389.02
11 41 23 00-0219 Low Temperature Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0220 208/230 Volt, 1 Phase <small>(11 41 23 00-0219)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0221 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	3,984.65	194.51

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0222	EA		3/4 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,066.67	226.94
11 41 23 00-0223	EA		1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,302.02	259.35
11 41 23 00-0224	EA		1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,671.18	291.77
11 41 23 00-0225	EA		2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	5,101.01	324.19
11 41 23 00-0226	EA		3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	5,760.10	389.02
11 41 23 00-0227			208/230 Volt, 3 Phase <small>(11 41 23 00-0219)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0228	EA		1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,437.38	259.35
11 41 23 00-0229	EA		1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,737.74	291.77
11 41 23 00-0230	EA		2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,154.85	324.19
11 41 23 00-0231	EA		3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,705.51	389.02
11 41 23 00-0232			Medium Temperature Semi-Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0233			208/230 Volt, 1 Phase <small>(11 41 23 00-0232)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0234	EA		1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,124.78	259.35
11 41 23 00-0235	EA		5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	9,384.04	518.70
11 41 23 00-0236			208/230 Volt, 3 Phase <small>(11 41 23 00-0232)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0237	EA		1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,127.78	259.35
11 41 23 00-0238	EA		2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,682.83	324.19
11 41 23 00-0239	EA		3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	7,082.28	389.02
11 41 23 00-0240	EA		5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	9,262.14	518.70
11 41 23 00-0241			Medium Temperature Semi-Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0242			208/230 Volt, 1 Phase <small>(11 41 23 00-0241)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0243	EA		1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,501.70	259.35
11 41 23 00-0244	EA		5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	11,012.09	518.70
11 41 23 00-0245			208/230 Volt, 3 Phase <small>(11 41 23 00-0241)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0246	EA		1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,509.17	259.35
11 41 23 00-0247	EA		2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,337.33	324.19
11 41 23 00-0248	EA		3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	7,620.73	389.02
11 41 23 00-0249	EA		5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	9,988.30	518.70
11 41 23 00-0250			Low Temperature Semi-Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0251			208/230 Volt, 1 Phase <small>(11 41 23 00-0250)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0252	EA		3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,188.56	226.94
11 41 23 00-0253	EA		1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,488.23	259.35
11 41 23 00-0254	EA		1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	5,256.74	291.77
11 41 23 00-0255	EA		2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,079.18	324.19
11 41 23 00-0256	EA		3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,669.34	389.02
11 41 23 00-0257			208/230 Volt, 3 Phase <small>(11 41 23 00-0250)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0258	EA		3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,167.62	226.94
11 41 23 00-0259	EA		1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,485.24	259.35
11 41 23 00-0260	EA		1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,228.32	291.77
11 41 23 00-0261	EA		2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	6,029.83	324.19



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0262 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	7,406.84	389.02
11 41 23 00-0263 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	10,285.00	453.86
11 41 23 00-0264 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	10,930.78	583.54
11 41 23 00-0265 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	15,628.85	680.80
11 41 23 00-0266 Low Temperature Semi-Hermetic System, Outdoor <small>(11 41 23 00-0171)</small>		
Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0267 208/230 Volt, 1 Phase <small>(11 41 23 00-0266)</small>		
Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0268 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,594.64	226.94
11 41 23 00-0269 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,833.74	259.35
11 41 23 00-0270 EA 1-1/2 Low Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,616.45	291.77
11 41 23 00-0271 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,444.13	324.19
11 41 23 00-0272 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	8,058.96	389.02
11 41 23 00-0273 208/230 Volt, 3 Phase <small>(11 41 23 00-0266)</small>		
Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0274 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,528.83	226.94
11 41 23 00-0275 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,836.73	259.35
11 41 23 00-0276 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,605.24	291.77
11 41 23 00-0277 EA 2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,388.79	324.19
11 41 23 00-0278 EA 3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,821.89	389.02
11 41 23 00-0279 EA 4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	11,314.02	453.86
11 41 23 00-0280 EA 6 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	12,025.62	583.54
11 41 23 00-0281 EA 7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	16,810.44	680.80
11 41 23 00-0282 Walk-In Refrigerated Boxes Accessories <small>(11 41 23)</small>		
11 41 23 00-0283 Accessories <small>(11 41 23 00-0282)</small>		
11 41 23 00-0284 EA Super Door Package, For 36" Or 42" Door.....	664.92	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0285 EA Super Door Package, For 48" Door.....	864.72	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0286 EA Super Door Package, For 60" Door.....	864.72	
Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.		
11 41 23 00-0287 EA 14" x 24" Observation Window, Heated.....	938.02	
11 41 23 00-0288 EA Heated Air Vent, Kason.....	383.02	
11 41 23 00-0289 EA Heated Air Vent, Bally Polyvinyl Chloride (PVC).....	811.17	
11 41 23 00-0290 EA Interior Ramps For 36" Or 42" Wide Doors.....	1,122.21	
11 41 23 00-0291 EA Interior Ramps For 48" Wide Doors.....	1,222.64	
11 41 23 00-0292 EA Interior Ramps For 60" Wide Doors.....	1,338.92	
11 41 23 00-0293 EA Exterior Ramps For 36" Or 42" Wide Doors.....	481.58	
11 41 23 00-0294 EA Exterior Ramps For 48" Wide Doors.....	845.24	
11 41 23 00-0295 EA Exterior Ramps For 60" Wide Doors.....	845.24	
11 41 23 00-0296 EA Field Installed Extra Vapor-Proof Lights.....	133.90	
11 41 23 00-0297 EA Field Installed Fluorescent Lights, 48", 2 Tubes.....	511.30	
11 41 23 00-0298 EA Alarm With Digital Thermostat Modularm 75 With Adjustable Setting (Flush Mounted).....	1,092.73	
11 41 23 00-0299 EA Alarm With Digital Thermostat Modularm 75B (Battery Backup) (Flush Mounted).....	1,146.64	
11 41 23 00-0300 EA Alarm With Digital Thermostat National TM100 With Adjustable Setting (Flush Mounted).....	564.16	
11 41 23 00-0301 EA Locking Devices, 36" Or 42" Wide Locking Bar.....	332.64	
11 41 23 00-0302 EA Locking Devices, 48" Wide Locking Bar.....	374.93	
11 41 23 00-0303 EA Locking Devices, 60" Wide Locking Bar.....	374.93	
11 41 23 00-0304 EA Locking Devices, Mortise Dead Bolt (Cooler).....	641.33	
11 41 23 00-0305 EA Locking Devices, Mortise Dead Bolt (Freezer).....	780.87	
11 41 23 00-0306 EA Blast Freezer Kit, For 36" Or 42" Wide Doors.....	1,253.29	
11 41 23 00-0307 EA Blast Freezer Kit, For 48" Wide Doors.....	1,320.95	
11 41 23 00-0308 EA Blast Freezer Kit, For 60" Wide Doors.....	1,356.89	
11 41 23 00-0309 EA Hardware Options, Polished For 36" Or 42" Door.....	58.14	
11 41 23 00-0310 EA Hardware Options, Polished For 48" Or 60" Door.....	47.57	
11 41 23 00-0311 EA Hardware Options, Chrome For 36" Or 42" Door.....	146.94	
11 41 23 00-0312 EA Hardware Options, Chrome For 48" Or 60" Door.....	79.29	
11 41 23 00-0313 EA Hardware Options, Positive Latch, 36" Or 42" Door.....	198.62	
11 41 23 00-0314 EA Hardware Options, Strap Hinges, 36" Or 42" Door.....	147.88	
11 41 23 00-0315 EA 4" Scream Door.....	427.42	
11 41 23 00-0316 EA Doors Cut For Tile.....	503.54	
11 41 23 00-0317 EA 84" High Doors (36" Wide).....	503.54	
11 41 23 00-0318 EA Doors Raised Or Lowered In Panel.....	1,062.77	
11 41 23 00-0319 EA 57-1/2" Door Section.....	346.02	
11 41 23 00-0320 EA 3 Way, Interior And Exterior, Light Switches.....	274.50	
11 41 23 00-0321 EA 3 Way (1 Side Only) Light Switch.....	140.19	
11 41 23 00-0322 EA Structural Support, 5" Reinforcing Ceilings (Every 23').....	243.96	
11 41 23 00-0323 EA Structural Support, 6" Reinforcing Ceilings (Every 23').....	303.16	

11 Equipment
11 40 Foodservice Equipment
11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0324	LF		Structural Support, Self-Supporting Standard Angle.....	33.15	
11 41 23 00-0325	LF		Structural Support, Self-Supporting 6" Channel.....	41.88	
11 41 23 00-0326	LF		Structural Support, Self-Supporting 8" Channel.....	59.05	
11 41 23 00-0327	LF		Structural Support, Self-Supporting 10" Channel.....	92.09	
11 41 23 00-0328	LF		Structural Support, Suspended Ceiling Support	18.48	
11 41 23 00-0329	LF		Factory Prepared Opening, Foam Cut Opening	6.25	
11 41 23 00-0330	LF		Factory Prepared Opening, Metal Capped Opening.....	18.50	
11 41 23 00-0331	LF		Factory Prepared Opening, Wood Framed Opening.....	21.76	
11 41 23 00-0332	LF		Factory Prepared Opening, Metal Capped Wood Framed Opening	28.54	
11 41 23 00-0333	LF		Factory Prepared Opening, Opening For Glass Doors (Doors Provided By Others, No Charge For Opening When Glass Door Purchased Through Manufacturer)	38.56	
11 41 23 00-0334	SF		Outdoor Weather Roofs, Aluminum Roof Caps	23.96	
11 41 23 00-0335	SF		Outdoor Weather Roofs, Membrane Roof Caps	5.81	
11 41 23 00-0336	SF		Outdoor Weather Roofs, Painted Aluminum Roofs.....	29.76	
11 41 23 00-0337	SF		1/8" Aluminum Tread Plate	62.23	
11 41 23 00-0338	SF		3/16" Aluminum Tread Plate	74.84	
11 41 23 00-0339	EA		Digitemp Display Thermometer (Indoor Exterior Wall).....	255.42	
11 41 23 00-0340	EA		4-1/2" Dial Type Thermometer With 5' Cap Tube	231.10	
11 41 23 00-0341	EA		6" Dial Type Thermometer With 5' Cap Tube.....	707.88	
11 41 23 00-0342	EA		2" Dial Type Thermometer (Standard).....	91.56	
11 41 23 00-0343	LF		Extra Capillary Tubing.....	9.79	
11 41 23 00-0344			Partition Wall For Walk-In Refrigerated Boxes <small>(11 41 23 00-0282)</small>		
			Note: Includes 36" x 78" door. Sizes listed as 7'-2"/7'-6" are for either 7'-2" or 7'-6" high refrigerated boxes. Sizes listed as 8'-2"/8'-6" are for either 8'-2" or 8'-6" high refrigerated boxes.		
11 41 23 00-0345	EA		5'-10" Length Partition Wall, 7'-2"/7'-6" High	2,523.98	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	120.30	
11 41 23 00-0346	EA		6'-9-1/2" Length Partition Wall, 7'-2"/7'-6" High	2,747.65	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	131.19	
11 41 23 00-0347	EA		7'-9" Length Partition Wall, 7'-2"/7'-6" High	2,827.54	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	134.89	
11 41 23 00-0348	EA		8'-8-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,055.43	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	145.99	
11 41 23 00-0349	EA		9'-8" Length Partition Wall, 7'-2"/7'-6" High	2,995.79	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	142.71	
11 41 23 00-0350	EA		10'-7-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,218.40	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	153.55	
11 41 23 00-0351	EA		11'-7" Length Partition Wall, 7'-2"/7'-6" High	3,287.72	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	156.72	
11 41 23 00-0352	EA		12'-6-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,603.36	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	172.21	
11 41 23 00-0353	EA		13'-6" Length Partition Wall, 7'-2"/7'-6" High	3,467.61	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	165.13	
11 41 23 00-0354	EA		14'-5-1/2" Length Partition Wall, 7'-2"/7'-6" High	3,691.27	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	176.01	
11 41 23 00-0355	EA		15'-5" Length Partition Wall, 7'-2"/7'-6" High	3,776.46	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	179.98	
11 41 23 00-0356	EA		16'-4-1/2" Length Partition Wall, 7'-2"/7'-6" High	4,001.19	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	190.92	
11 41 23 00-0357	EA		17'-4" Length Partition Wall, 7'-2"/7'-6" High	4,601.31	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	220.63	
11 41 23 00-0358	EA		5'-10" Length Partition Wall, 8'-2"/8'-6" High	2,750.21	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	131.61	
11 41 23 00-0359	EA		6'-9-1/2" Length Partition Wall, 8'-2"/8'-6" High	2,940.05	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	140.81	
11 41 23 00-0360	EA		7'-9" Length Partition Wall, 8'-2"/8'-6" High	3,033.69	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	145.20	
11 41 23 00-0361	EA		8'-8-1/2" Length Partition Wall, 8'-2"/8'-6" High	3,285.89	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	157.51	
11 41 23 00-0362	EA		9'-8" Length Partition Wall, 8'-2"/8'-6" High	3,213.56	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	153.60	
11 41 23 00-0363	EA		10'-7-1/2" Length Partition Wall, 8'-2"/8'-6" High	3,464.71	
			Note: Galvalume both sides.		
			For Embossed White Instead Of Galvalume® On Both Sides, Add	165.87	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0364	EA		11'-7" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	3,559.41	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	170.31	
11 41 23 00-0365	EA		12'-6-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	3,810.56	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	182.57	
11 41 23 00-0366	EA		13'-6" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	3,738.24	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	178.66	
11 41 23 00-0367	EA		14'-5-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	3,989.39	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	190.92	
11 41 23 00-0368	EA		15'-5" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	4,084.09	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	195.36	
11 41 23 00-0369	EA		16'-4-1/2" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	4,335.25	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	207.62	
11 41 23 00-0370	EA		17'-4" Length Partition Wall, 8'-2"/8'-6" High..... Note: Galvalume both sides.	4,262.90	
			<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	203.71	
11 41 23 00-0371			Glass Doors For Walk-In Refrigerated Boxes <small>(11 41 23 00-0282)</small> Note: Factory installed, includes lights and 5 tier shelves.		
11 41 23 00-0372	EA		23" x 67" Glass Door, Displayrite, Coolrite Model.....	1,049.74	
11 41 23 00-0373	EA		23" x 73" Glass Door, Displayrite, Coolrite Model.....	1,147.00	
11 41 23 00-0374	EA		30" x 67" Glass Door, Displayrite, Coolrite Model.....	1,156.52	
11 41 23 00-0375	EA		30" x 73" Glass Door, Displayrite, Coolrite Model.....	1,279.15	
11 41 23 00-0376	EA		23" x 67" Glass Door, Displayrite, Freezerite Model.....	1,403.89	
11 41 23 00-0377	EA		23" x 73" Glass Door, Displayrite, Freezerite Model.....	1,492.69	
11 41 23 00-0378	EA		30" x 67" Glass Door, Displayrite, Freezerite Model.....	1,497.97	
11 41 23 00-0379	EA		30" x 73" Glass Door, Displayrite, Freezerite Model.....	1,743.23	
11 41 23 00-0380	EA		24" x 67" Glass Door, Anthony Model 101.....	1,427.15	
11 41 23 00-0381	EA		26" x 67" Glass Door, Anthony Model 101.....	1,767.55	
11 41 23 00-0382	EA		30" x 67" Glass Door, Anthony Model 101.....	1,887.00	
11 41 23 00-0383	EA		30x75 Glass Door, Anthony Model 101.....	1,927.18	
11 41 23 00-0384	EA		24" x 67" Glass Door, Anthony Model 101.....	2,173.49	
11 41 23 00-0385	EA		26" x 67" Glass Door, Anthony Model 101.....	2,412.40	
11 41 23 00-0386	EA		30" x 67" Glass Door, Anthony Model 101.....	2,456.80	
11 41 23 00-0387	EA		30" x 75" Glass Door, Anthony Model 101.....	2,620.66	
11 41 23 00-0388	EA		23" x 67" Glass Door, Anthony Model 401.....	1,126.92	
11 41 23 00-0389	EA		26-3/4" x 67" Glass Door, Anthony Model 401.....	1,187.17	
11 41 23 00-0390	EA		30-1/4" x 67" Glass Door, Anthony Model 401.....	1,596.29	
11 41 23 00-0391	EA		30-1/4" x 75" Glass Door, Anthony Model 401.....	1,369.00	
11 41 23 00-0392	EA		23" x 67" Glass Door, Anthony Model 401.....	1,520.17	
11 41 23 00-0393	EA		26-3/4" x 67" Glass Door, Anthony Model 401.....	1,591.00	
11 41 23 00-0394	EA		30-1/4" x 67" Glass Door, Anthony Model 401.....	1,596.29	
11 41 23 00-0395	EA		30-1/4" x 75" Glass Door, Anthony Model 401.....	1,900.75	
11 41 23 00-0396			Modular Wire Shelving For Walk-In Refrigerated Boxes <small>(11 41 23 00-0282)</small>		
11 41 23 00-0397	EA		14" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	414.04 402.00	
11 41 23 00-0398	EA		14" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	436.86 402.00	
11 41 23 00-0399	EA		14" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	485.03 402.00	
11 41 23 00-0400	EA		14" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	512.07 402.00	
11 41 23 00-0401	EA		14" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	557.69 402.00	
11 41 23 00-0402	EA		18" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	474.91 402.00	
11 41 23 00-0403	EA		18" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	488.20 402.00	
11 41 23 00-0404	EA		18" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	537.45 402.00	
11 41 23 00-0405	EA		18" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	562.37 402.00	
11 41 23 00-0406	EA		18" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	640.76 402.00	
11 41 23 00-0407	EA		21" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	516.75 402.00	
11 41 23 00-0408	EA		21" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	524.76 402.00	
11 41 23 00-0409	EA		21" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	595.15 402.00	
11 41 23 00-0410	EA		21" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	601.04 402.00	
11 41 23 00-0411	EA		21" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	690.00 402.00	

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0412 EA 14" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	359.07 402.00	
11 41 23 00-0413 EA 14" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	377.65 402.00	
11 41 23 00-0414 EA 14" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	413.14 402.00	
11 41 23 00-0415 EA 14" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	423.27 402.00	
11 41 23 00-0416 EA 14" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	481.58 402.00	
11 41 23 00-0417 EA 18" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	394.57 402.00	
11 41 23 00-0418 EA 18" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	422.66 402.00	
11 41 23 00-0419 EA 18" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	447.59 402.00	
11 41 23 00-0420 EA 18" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	455.60 402.00	
11 41 23 00-0421 EA 18" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	533.99 402.00	
11 41 23 00-0422 EA 21" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	432.17 402.00	
11 41 23 00-0423 EA 21" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	449.70 402.00	
11 41 23 00-0424 EA 21" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	482.03 402.00	
11 41 23 00-0425 EA 21" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	500.61 402.00	
11 41 23 00-0426 EA 21" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	581.11 402.00	
11 41 23 00-0427 EA 14" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,733.72 402.00	
11 41 23 00-0428 EA 14" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,933.58 402.00	
11 41 23 00-0429 EA 14" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,972.91 402.00	
11 41 23 00-0430 EA 14" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,012.25 402.00	
11 41 23 00-0431 EA 14" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,432.02 402.00	
11 41 23 00-0432 EA 18" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,819.88 402.00	
11 41 23 00-0433 EA 18" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,932.78 402.00	
11 41 23 00-0434 EA 18" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,139.32 402.00	
11 41 23 00-0435 EA 18" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,225.48 402.00	
11 41 23 00-0436 EA 18" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,718.82 402.00	
11 41 23 00-0437 EA 21" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,966.22 402.00	
11 41 23 00-0438 EA 21" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,146.01 402.00	
11 41 23 00-0439 EA 21" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,352.56 402.00	
11 41 23 00-0440 EA 21" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,438.70 402.00	
11 41 23 00-0441 EA 21" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	3,092.56 402.00	
11 41 23 00-0442 EA 14" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	488.82 472.00	
11 41 23 00-0443 EA 14" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	526.43 472.00	
11 41 23 00-0444 EA 14" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	569.32 472.00	
11 41 23 00-0445 EA 14" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	609.05 472.00	
11 41 23 00-0446 EA 14" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	661.00 472.00	
11 41 23 00-0447 EA 18" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	574.00 472.00	
11 41 23 00-0448 EA 18" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	589.41 472.00	
11 41 23 00-0449 EA 18" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	648.16 472.00	
11 41 23 00-0450 EA 18" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	679.43 472.00	
11 41 23 00-0451 EA 18" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	773.67 472.00	
11 41 23 00-0452 EA 21" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	624.29 472.00	
11 41 23 00-0453 EA 21" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	644.99 472.00	



	Equipment	11
	Foodservice Equipment	11 40
	Foodservice Storage Equipment	11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0454	EA		21" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	711.14 472.00	
11 41 23 00-0455	EA		21" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	727.60 472.00	
11 41 23 00-0456	EA		21" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	832.42 472.00	
11 41 23 00-0457	EA		14" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	422.22 472.00	
11 41 23 00-0458	EA		14" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	443.97 472.00	
11 41 23 00-0459	EA		14" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	486.86 472.00	
11 41 23 00-0460	EA		14" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	498.05 472.00	
11 41 23 00-0461	EA		14" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	567.97 472.00	
11 41 23 00-0462	EA		18" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	474.63 472.00	
11 41 23 00-0463	EA		18" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	506.95 472.00	
11 41 23 00-0464	EA		18" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	574.16 472.00	
11 41 23 00-0465	EA		18" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	571.60 472.00	
11 41 23 00-0466	EA		18" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	638.36 472.00	
11 41 23 00-0467	EA		21" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	519.64 472.00	
11 41 23 00-0468	EA		21" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	540.34 472.00	
11 41 23 00-0469	EA		21" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	580.05 472.00	
11 41 23 00-0470	EA		21" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	600.74 472.00	
11 41 23 00-0471	EA		21" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	699.22 472.00	
11 41 23 00-0472	EA		14" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,115.92 472.00	
11 41 23 00-0473	EA		14" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,364.26 472.00	
11 41 23 00-0474	EA		14" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,411.95 472.00	
11 41 23 00-0475	EA		14" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,459.65 472.00	
11 41 23 00-0476	EA		14" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,981.40 472.00	
11 41 23 00-0477	EA		18" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,222.14 472.00	
11 41 23 00-0478	EA		18" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,361.79 472.00	
11 41 23 00-0479	EA		18" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,618.50 472.00	
11 41 23 00-0480	EA		18" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,724.71 472.00	
11 41 23 00-0481	EA		18" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	3,338.43 472.00	
11 41 23 00-0482	EA		21" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,403.59 472.00	
11 41 23 00-0483	EA		21" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,626.86 472.00	
11 41 23 00-0484	EA		21" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,883.55 472.00	
11 41 23 00-0485	EA		21" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	2,989.76 472.00	
11 41 23 00-0486	EA		21" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts <i>For Cantilever Shelving, Add</i>	3,804.13 472.00	

11 41 31 Non-Refrigerated Storage Equipment (11 41)

11 41 31 00-0001 Wall Cabinets <small>(11 41 31)</small>					
11 41 31 00-0002	EA		48" Wall Cabinet With Sliding Doors Note: 15" deep and 24" high.	1,838.26	91.43
11 41 31 00-0003	EA		72" Wall Cabinet With Sliding Doors Note: 15" deep and 24" high.	2,425.53	120.70
11 41 31 00-0004	EA		72" Wall Cabinet With Hinged Doors Note: 15" deep and 24" high.	2,783.93	138.38
11 41 31 00-0005	EA		72" Wall Cabinet With Open Shelves Note: 15" deep and 24" high.	1,781.60	88.27
11 41 31 00-0006 Mobile Sheet Pan Truck <small>(11 41 31)</small>					
11 41 31 00-0007	EA		2 Level Mobile Sheet Pan Truck	172.97	8.83

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 31 00-0008			Pot And Utensil Rack ^(11 41 31)		
11 41 31 00-0009	EA		70" Bench Type Pot And Utensil Rack.....	505.45	26.93
11 41 31 00-0010	EA		94" Bench Type Pot And Utensil Rack.....	585.29	30.43
11 41 31 00-0011	EA		94" Ceiling Type Pot And Utensil Rack.....	695.97	36.46
11 41 31 00-0012	EA		96" Wall Type Pot And Utensil Rack.....	378.55	19.91
11 41 31 00-0013			Tray And Silverware Cart ^(11 41 31)		
11 41 31 00-0014	EA		33" x 22-1/2" x 42" Tray And Silverware Cart.....	1,746.62	90.87
11 41 31 00-0015			Flat Top Utility Units ^(11 41 31)		
11 41 31 00-0016	EA		39" x 28-1/2" x 35-3/8" Flat Top Utility Units.....	1,190.97	62.12
11 41 31 00-0017	EA		79-1/2" x 28-1/2" x 35-3/8" Flat Top Utility Units.....	1,595.85	83.02
11 41 33			Foodservice Shelving ^(11 41)		
11 41 33 00-0001			Shelving/Racks ^(11 41 33)		
11 41 33 00-0002			Chrome Shelving Units ^(11 41 33 00-0001)		
11 41 33 00-0003			54" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit ^(11 41 33 00-0002)		
11 41 33 00-0004	EA		14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	219.89	31.79
11 41 33 00-0005	EA		14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	230.41	32.05
11 41 33 00-0006	EA		14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	243.40	32.31
11 41 33 00-0007	EA		14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	251.52	32.58
11 41 33 00-0008	EA		14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	266.90	32.85
11 41 33 00-0009	EA		14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	279.92	33.11
11 41 33 00-0010	EA		14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	290.45	33.37
11 41 33 00-0011	EA		14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	313.96	33.89
11 41 33 00-0012	EA		18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	237.71	32.05
11 41 33 00-0013	EA		18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	245.84	32.31
11 41 33 00-0014	EA		18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	253.97	32.58
11 41 33 00-0015	EA		18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	276.69	32.85
11 41 33 00-0016	EA		18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	292.11	33.11
11 41 33 00-0017	EA		18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	312.38	33.37
11 41 33 00-0018	EA		18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	320.46	33.63
11 41 33 00-0019	EA		18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	348.91	34.16
11 41 33 00-0020	EA		21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	248.29	32.31
11 41 33 00-0021	EA		21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	266.11	32.58
11 41 33 00-0022	EA		21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	279.14	32.85
11 41 33 00-0023	EA		21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	294.51	33.11
11 41 33 00-0024	EA		21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	305.08	33.37
11 41 33 00-0025	EA		21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	330.26	33.63
11 41 33 00-0026	EA		21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	343.22	33.89
11 41 33 00-0027	EA		21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	376.52	34.42
11 41 33 00-0028	EA		24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	271.06	32.58
11 41 33 00-0029	EA		24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	281.59	32.85
11 41 33 00-0030	EA		24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	289.66	33.11
11 41 33 00-0031	EA		24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	309.98	33.37
11 41 33 00-0032	EA		24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	322.96	33.63
11 41 33 00-0033	EA		24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	348.12	33.89
11 41 33 00-0034	EA		24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	365.94	34.16
11 41 33 00-0035	EA		24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	409.02	34.68
11 41 33 00-0036	EA		30" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	349.87	32.85
11 41 33 00-0037	EA		30" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	389.60	33.11
11 41 33 00-0038	EA		30" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	414.82	33.37
11 41 33 00-0039	EA		30" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	471.71	33.63
11 41 33 00-0040	EA		36" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	384.68	33.89
11 41 33 00-0041	EA		36" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	422.09	34.16
11 41 33 00-0042	EA		36" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	469.14	34.42
11 41 33 00-0043	EA		36" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit.....	545.44	34.94
11 41 33 00-0044			63" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit ^(11 41 33 00-0002)		
11 41 33 00-0045	EA		14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	222.29	31.79
11 41 33 00-0046	EA		14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	232.81	32.05
11 41 33 00-0047	EA		14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	245.79	32.31
11 41 33 00-0048	EA		14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	253.92	32.58
11 41 33 00-0049	EA		14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	269.30	32.85
11 41 33 00-0050	EA		14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	282.31	33.11
11 41 33 00-0051	EA		14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	292.85	33.37
11 41 33 00-0052	EA		14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	316.34	33.89
11 41 33 00-0053	EA		18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	240.10	32.05
11 41 33 00-0054	EA		18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	248.24	32.31
11 41 33 00-0055	EA		18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	256.37	32.58
11 41 33 00-0056	EA		18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	279.08	32.85
11 41 33 00-0057	EA		18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	294.51	33.11



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0058 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	314.76	33.37
11 41 33 00-0059 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	322.86	33.63
11 41 33 00-0060 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	327.61	34.16
11 41 33 00-0061 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	260.69	32.31
11 41 33 00-0062 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	268.51	32.58
11 41 33 00-0063 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	281.53	32.85
11 41 33 00-0064 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	296.89	33.11
11 41 33 00-0065 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	307.48	33.37
11 41 33 00-0066 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	332.65	33.63
11 41 33 00-0067 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	345.62	33.89
11 41 33 00-0068 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	378.92	34.42
11 41 33 00-0069 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	273.46	32.58
11 41 33 00-0070 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	283.98	32.85
11 41 33 00-0071 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	292.06	33.11
11 41 33 00-0072 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	312.38	33.37
11 41 33 00-0073 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	325.36	33.63
11 41 33 00-0074 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	350.51	33.89
11 41 33 00-0075 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	368.33	34.16
11 41 33 00-0076 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	411.42	34.68
11 41 33 00-0077 EA 30" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	352.26	32.85
11 41 33 00-0078 EA 30" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	392.00	33.11
11 41 33 00-0079 EA 30" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	417.21	33.37
11 41 33 00-0080 EA 30" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	474.10	33.63
11 41 33 00-0081 EA 36" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	387.07	33.89
11 41 33 00-0082 EA 36" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	424.47	34.16
11 41 33 00-0083 EA 36" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	471.56	34.42
11 41 33 00-0084 EA 36" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit.....	547.82	34.94
11 41 33 00-0085 66" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0086 EA 14" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	223.54	31.79
11 41 33 00-0087 EA 14" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	234.06	32.05
11 41 33 00-0088 EA 14" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	247.04	32.31
11 41 33 00-0089 EA 14" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	255.17	32.58
11 41 33 00-0090 EA 14" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	270.55	32.85
11 41 33 00-0091 EA 14" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	283.56	33.11
11 41 33 00-0092 EA 14" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	294.10	33.37
11 41 33 00-0093 EA 14" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	317.59	33.89
11 41 33 00-0094 EA 18" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	241.36	32.05
11 41 33 00-0095 EA 18" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	249.49	32.31
11 41 33 00-0096 EA 18" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	257.62	32.58
11 41 33 00-0097 EA 18" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	280.34	32.85
11 41 33 00-0098 EA 18" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	295.76	33.11
11 41 33 00-0099 EA 18" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	316.01	33.37
11 41 33 00-0100 EA 18" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	324.11	33.63
11 41 33 00-0101 EA 18" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	352.56	34.16
11 41 33 00-0102 EA 21" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	251.93	32.31
11 41 33 00-0103 EA 21" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	269.76	32.58
11 41 33 00-0104 EA 21" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	282.78	32.85
11 41 33 00-0105 EA 21" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	298.14	33.11
11 41 33 00-0106 EA 21" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	308.73	33.37
11 41 33 00-0107 EA 21" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	333.90	33.63
11 41 33 00-0108 EA 21" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	346.87	33.89
11 41 33 00-0109 EA 21" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	380.17	34.42
11 41 33 00-0110 EA 24" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	274.70	32.58
11 41 33 00-0111 EA 24" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	285.23	32.85
11 41 33 00-0112 EA 24" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	293.31	33.11
11 41 33 00-0113 EA 24" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	313.63	33.37
11 41 33 00-0114 EA 24" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	326.61	33.63
11 41 33 00-0115 EA 24" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	351.77	33.89
11 41 33 00-0116 EA 24" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	369.58	34.16
11 41 33 00-0117 EA 24" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	412.67	34.68
11 41 33 00-0118 EA 30" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	353.51	32.85
11 41 33 00-0119 EA 30" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	393.25	33.11
11 41 33 00-0120 EA 30" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	418.47	33.37
11 41 33 00-0121 EA 30" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	475.35	33.63
11 41 33 00-0122 EA 36" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	388.32	33.89
11 41 33 00-0123 EA 36" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	425.72	34.16
11 41 33 00-0124 EA 36" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	472.80	34.42
11 41 33 00-0125 EA 36" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit.....	549.07	34.94
11 41 33 00-0126 74" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0127 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	227.18	31.79
11 41 33 00-0128 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	237.71	32.05
11 41 33 00-0129 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	250.69	32.31
11 41 33 00-0130 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	258.82	32.58
11 41 33 00-0131 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	274.20	32.85
11 41 33 00-0132 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	287.21	33.11
11 41 33 00-0133 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	297.75	33.37
11 41 33 00-0134 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit.....	321.24	33.89

11 Equipment
11 40 Foodservice Equipment
11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0135	EA		18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	245.00	32.05
11 41 33 00-0136	EA		18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	253.13	32.31
11 41 33 00-0137	EA		18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	261.27	32.58
11 41 33 00-0138	EA		18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	283.98	32.85
11 41 33 00-0139	EA		18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	299.39	33.11
11 41 33 00-0140	EA		18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	319.66	33.37
11 41 33 00-0141	EA		18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	327.76	33.63
11 41 33 00-0142	EA		18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	356.20	34.16
11 41 33 00-0143	EA		21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	255.58	32.31
11 41 33 00-0144	EA		21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	273.41	32.58
11 41 33 00-0145	EA		21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	286.43	32.85
11 41 33 00-0146	EA		21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	301.79	33.11
11 41 33 00-0147	EA		21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	312.38	33.37
11 41 33 00-0148	EA		21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	337.54	33.63
11 41 33 00-0149	EA		21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	350.51	33.89
11 41 33 00-0150	EA		21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	383.81	34.42
11 41 33 00-0151	EA		24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	278.35	32.58
11 41 33 00-0152	EA		24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	288.88	32.85
11 41 33 00-0153	EA		24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	296.96	33.11
11 41 33 00-0154	EA		24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	317.26	33.37
11 41 33 00-0155	EA		24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	330.26	33.63
11 41 33 00-0156	EA		24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	355.41	33.89
11 41 33 00-0157	EA		24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	373.23	34.16
11 41 33 00-0158	EA		24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	416.32	34.68
11 41 33 00-0159	EA		30" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	357.15	32.85
11 41 33 00-0160	EA		30" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	396.90	33.11
11 41 33 00-0161	EA		30" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	422.10	33.37
11 41 33 00-0162	EA		30" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	479.00	33.63
11 41 33 00-0163	EA		36" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	391.97	33.89
11 41 33 00-0164	EA		36" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	429.37	34.16
11 41 33 00-0165	EA		36" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	476.46	34.42
11 41 33 00-0166	EA		36" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	552.72	34.94
11 41 33 00-0167			86" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit <small>(11 41 33 00-0002)</small>		
11 41 33 00-0168	EA		14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	236.92	31.79
11 41 33 00-0169	EA		14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	247.45	32.05
11 41 33 00-0170	EA		14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	260.42	32.31
11 41 33 00-0171	EA		14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	268.56	32.58
11 41 33 00-0172	EA		14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	283.93	32.85
11 41 33 00-0173	EA		14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	296.96	33.11
11 41 33 00-0174	EA		14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	307.48	33.37
11 41 33 00-0175	EA		14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	330.99	33.89
11 41 33 00-0176	EA		18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	254.74	32.05
11 41 33 00-0177	EA		18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	262.87	32.31
11 41 33 00-0178	EA		18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	271.01	32.58
11 41 33 00-0179	EA		18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	293.73	32.85
11 41 33 00-0180	EA		18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	309.14	33.11
11 41 33 00-0181	EA		18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	329.41	33.37
11 41 33 00-0182	EA		18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	337.50	33.63
11 41 33 00-0183	EA		18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	365.94	34.16
11 41 33 00-0184	EA		21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	265.32	32.31
11 41 33 00-0185	EA		21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	283.14	32.58
11 41 33 00-0186	EA		21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	296.18	32.85
11 41 33 00-0187	EA		21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	311.53	33.11
11 41 33 00-0188	EA		21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	322.11	33.37
11 41 33 00-0189	EA		21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	347.29	33.63
11 41 33 00-0190	EA		21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	360.26	33.89
11 41 33 00-0191	EA		21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	393.55	34.42
11 41 33 00-0192	EA		24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	288.09	32.58
11 41 33 00-0193	EA		24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	298.61	32.85
11 41 33 00-0194	EA		24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	306.69	33.11
11 41 33 00-0195	EA		24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	327.01	33.37
11 41 33 00-0196	EA		24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	339.99	33.63
11 41 33 00-0197	EA		24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	365.15	33.89
11 41 33 00-0198	EA		24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	382.96	34.16
11 41 33 00-0199	EA		24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	426.05	34.68
11 41 33 00-0200	EA		30" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	366.89	32.85
11 41 33 00-0201	EA		30" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	406.63	33.11
11 41 33 00-0202	EA		30" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	431.85	33.37
11 41 33 00-0203	EA		30" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	488.73	33.63
11 41 33 00-0204	EA		36" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	401.70	33.89
11 41 33 00-0205	EA		36" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	439.11	34.16
11 41 33 00-0206	EA		36" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	486.21	34.42
11 41 33 00-0207	EA		36" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	562.46	34.94
11 41 33 00-0208			96" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit <small>(11 41 33 00-0002)</small>		
11 41 33 00-0209	EA		14" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	272.89	31.79
11 41 33 00-0210	EA		14" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	285.85	32.05
11 41 33 00-0211	EA		14" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	301.88	32.31



Equipment	11	
Foodservice Equipment	11 40	↑
Foodservice Storage Equipment	11 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0212 EA 14" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	311.85	32.58
11 41 33 00-0213 EA 14" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	330.87	32.85
11 41 33 00-0214 EA 14" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	346.95	33.11
11 41 33 00-0215 EA 14" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	359.91	33.37
11 41 33 00-0216 EA 14" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	388.90	33.89
11 41 33 00-0217 EA 18" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	294.97	32.05
11 41 33 00-0218 EA 18" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	304.94	32.31
11 41 33 00-0219 EA 18" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	314.90	32.58
11 41 33 00-0220 EA 18" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	343.10	32.85
11 41 33 00-0221 EA 18" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	362.18	33.11
11 41 33 00-0222 EA 18" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	387.32	33.37
11 41 33 00-0223 EA 18" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	397.23	33.63
11 41 33 00-0224 EA 18" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	432.39	34.16
11 41 33 00-0225 EA 21" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	308.00	32.31
11 41 33 00-0226 EA 21" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	330.08	32.58
11 41 33 00-0227 EA 21" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	346.17	32.85
11 41 33 00-0228 EA 21" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	365.17	33.11
11 41 33 00-0229 EA 21" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	378.21	33.37
11 41 33 00-0230 EA 21" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	409.47	33.63
11 41 33 00-0231 EA 21" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	425.49	33.89
11 41 33 00-0232 EA 21" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	466.71	34.42
11 41 33 00-0233 EA 24" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	336.26	32.58
11 41 33 00-0234 EA 24" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	349.23	32.85
11 41 33 00-0235 EA 24" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	359.12	33.11
11 41 33 00-0236 EA 24" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	384.33	33.37
11 41 33 00-0237 EA 24" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	400.35	33.63
11 41 33 00-0238 EA 24" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	431.60	33.89
11 41 33 00-0239 EA 24" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	453.68	34.16
11 41 33 00-0240 EA 24" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	507.14	34.68
11 41 33 00-0241 EA 30" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	434.57	32.85
11 41 33 00-0242 EA 30" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	484.05	33.11
11 41 33 00-0243 EA 30" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	515.37	33.37
11 41 33 00-0244 EA 30" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	586.29	33.63
11 41 33 00-0245 EA 36" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	477.30	33.89
11 41 33 00-0246 EA 36" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	523.86	34.16
11 41 33 00-0247 EA 36" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	582.52	34.42
11 41 33 00-0248 EA 36" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit.....	677.45	34.94
11 41 33 00-0249 Galvanized Shelving Units (11 41 33 00-0001)		
11 41 33 00-0250 54" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0251 EA 14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	300.82	31.79
11 41 33 00-0252 EA 14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	315.99	32.05
11 41 33 00-0253 EA 14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	334.83	32.31
11 41 33 00-0254 EA 14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	350.00	32.58
11 41 33 00-0255 EA 14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	372.44	32.85
11 41 33 00-0256 EA 14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	391.19	33.11
11 41 33 00-0257 EA 14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	410.03	33.37
11 41 33 00-0258 EA 14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	440.37	33.89
11 41 33 00-0259 EA 18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	326.78	32.05
11 41 33 00-0260 EA 18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	338.43	32.31
11 41 33 00-0261 EA 18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	360.79	32.58
11 41 33 00-0262 EA 18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	386.82	32.85
11 41 33 00-0263 EA 18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	409.24	33.11
11 41 33 00-0264 EA 18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	438.79	33.37
11 41 33 00-0265 EA 18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	461.24	33.63
11 41 33 00-0266 EA 18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	495.29	34.16
11 41 33 00-0267 EA 21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	342.02	32.31
11 41 33 00-0268 EA 21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	371.65	32.58
11 41 33 00-0269 EA 21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	390.41	32.85
11 41 33 00-0270 EA 21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	412.84	33.11
11 41 33 00-0271 EA 21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	428.01	33.37
11 41 33 00-0272 EA 21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	468.43	33.63
11 41 33 00-0273 EA 21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	487.26	33.89
11 41 33 00-0274 EA 21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	542.84	34.42
11 41 33 00-0275 EA 24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	378.84	32.58
11 41 33 00-0276 EA 24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	394.01	32.85
11 41 33 00-0277 EA 24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	405.65	33.11
11 41 33 00-0278 EA 24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	435.20	33.37
11 41 33 00-0279 EA 24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	468.43	33.63
11 41 33 00-0280 EA 24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	505.22	33.89
11 41 33 00-0281 EA 24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	534.86	34.16
11 41 33 00-0282 EA 24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	601.30	34.68
11 41 33 00-0283 63" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0284 EA 14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	308.01	31.79
11 41 33 00-0285 EA 14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	323.18	32.05
11 41 33 00-0286 EA 14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	342.02	32.31
11 41 33 00-0287 EA 14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	357.19	32.58

11 Equipment
11 40 Foodservice Equipment
11 41 Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0288 EA 14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	379.63	32.85
11 41 33 00-0289 EA 14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	398.38	33.11
11 41 33 00-0290 EA 14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	417.22	33.37
11 41 33 00-0291 EA 14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	447.56	33.89
11 41 33 00-0292 EA 18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	333.97	32.05
11 41 33 00-0293 EA 18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	345.62	32.31
11 41 33 00-0294 EA 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	367.98	32.58
11 41 33 00-0295 EA 18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	394.01	32.85
11 41 33 00-0296 EA 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	416.43	33.11
11 41 33 00-0297 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	445.98	33.37
11 41 33 00-0298 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	468.43	33.63
11 41 33 00-0299 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	502.43	34.16
11 41 33 00-0300 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	349.21	32.31
11 41 33 00-0301 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	378.84	32.58
11 41 33 00-0302 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	397.60	32.85
11 41 33 00-0303 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	420.03	33.11
11 41 33 00-0304 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	435.20	33.37
11 41 33 00-0305 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	475.62	33.63
11 41 33 00-0306 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	494.45	33.89
11 41 33 00-0307 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	550.03	34.42
11 41 33 00-0308 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	386.03	32.58
11 41 33 00-0309 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	401.20	32.85
11 41 33 00-0310 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	412.84	33.11
11 41 33 00-0311 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	442.39	33.37
11 41 33 00-0312 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	475.62	33.63
11 41 33 00-0313 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	512.41	33.89
11 41 33 00-0314 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	542.05	34.16
11 41 33 00-0315 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	608.49	34.68

11 41 33 00-0316 74" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0317 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	315.20	31.79
11 41 33 00-0318 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	330.37	32.05
11 41 33 00-0319 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	349.21	32.31
11 41 33 00-0320 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	364.38	32.58
11 41 33 00-0321 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	386.82	32.85
11 41 33 00-0322 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	405.57	33.11
11 41 33 00-0323 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	424.41	33.37
11 41 33 00-0324 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	454.74	33.89
11 41 33 00-0325 EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	341.16	32.05
11 41 33 00-0326 EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	352.81	32.31
11 41 33 00-0327 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	375.17	32.58
11 41 33 00-0328 EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	401.20	32.85
11 41 33 00-0329 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	423.62	33.11
11 41 33 00-0330 EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	453.16	33.37
11 41 33 00-0331 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	475.62	33.63
11 41 33 00-0332 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	509.62	34.16
11 41 33 00-0333 EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	356.40	32.31
11 41 33 00-0334 EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	386.03	32.58
11 41 33 00-0335 EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	404.79	32.85
11 41 33 00-0336 EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	427.22	33.11
11 41 33 00-0337 EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	442.39	33.37
11 41 33 00-0338 EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	482.81	33.63
11 41 33 00-0339 EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	501.64	33.89
11 41 33 00-0340 EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	557.22	34.42
11 41 33 00-0341 EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	393.22	32.58
11 41 33 00-0342 EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	408.39	32.85
11 41 33 00-0343 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	420.03	33.11
11 41 33 00-0344 EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	449.58	33.37
11 41 33 00-0345 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	482.81	33.63
11 41 33 00-0346 EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	519.60	33.89
11 41 33 00-0347 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	549.24	34.16
11 41 33 00-0348 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	615.67	34.68

11 41 33 00-0349 86" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0350 EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	333.25	31.79
11 41 33 00-0351 EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	348.42	32.05
11 41 33 00-0352 EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	367.26	32.31
11 41 33 00-0353 EA 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	382.43	32.58
11 41 33 00-0354 EA 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	404.87	32.85
11 41 33 00-0355 EA 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	423.62	33.11
11 41 33 00-0356 EA 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	442.46	33.37
11 41 33 00-0357 EA 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	472.79	33.89
11 41 33 00-0358 EA 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	359.21	32.05
11 41 33 00-0359 EA 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	370.86	32.31
11 41 33 00-0360 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	393.22	32.58
11 41 33 00-0361 EA 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	419.25	32.85
11 41 33 00-0362 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	441.67	33.11
11 41 33 00-0363 EA 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	471.21	33.37
11 41 33 00-0364 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	493.67	33.63



Equipment	11	
Foodservice Equipment	11 40	11
Foodservice Storage Equipment	11 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0365	EA		18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	527.67	34.16
11 41 33 00-0366	EA		21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	374.45	32.31
11 41 33 00-0367	EA		21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	404.08	32.58
11 41 33 00-0368	EA		21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	422.84	32.85
11 41 33 00-0369	EA		21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	445.27	33.11
11 41 33 00-0370	EA		21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	460.44	33.37
11 41 33 00-0371	EA		21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	500.86	33.63
11 41 33 00-0372	EA		21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	519.69	33.89
11 41 33 00-0373	EA		21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	575.27	34.42
11 41 33 00-0374	EA		24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	411.27	32.58
11 41 33 00-0375	EA		24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	426.44	32.85
11 41 33 00-0376	EA		24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	438.08	33.11
11 41 33 00-0377	EA		24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	467.63	33.37
11 41 33 00-0378	EA		24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	500.86	33.63
11 41 33 00-0379	EA		24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	537.65	33.89
11 41 33 00-0380	EA		24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	567.29	34.16
11 41 33 00-0381	EA		24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	633.72	34.68
11 41 33 00-0382			54" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit <small>(11 41 33 00-0249)</small>		
11 41 33 00-0383	EA		18" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	566.14	32.58
11 41 33 00-0384	EA		18" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	621.78	33.11
11 41 33 00-0385	EA		18" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	695.42	33.63
11 41 33 00-0386	EA		18" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	740.21	34.16
11 41 33 00-0387	EA		24" x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	618.12	33.11
11 41 33 00-0388	EA		24" x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	713.40	33.63
11 41 33 00-0389	EA		24" x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	787.02	34.16
11 41 33 00-0390	EA		24" x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit.....	896.66	34.68
11 41 33 00-0391			63" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit <small>(11 41 33 00-0249)</small>		
11 41 33 00-0392	EA		18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	573.33	32.58
11 41 33 00-0393	EA		18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	628.98	33.11
11 41 33 00-0394	EA		18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	702.61	33.63
11 41 33 00-0395	EA		18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	747.40	34.16
11 41 33 00-0396	EA		24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	625.31	33.11
11 41 33 00-0397	EA		24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	720.59	33.63
11 41 33 00-0398	EA		24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	794.21	34.16
11 41 33 00-0399	EA		24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit.....	903.85	34.68
11 41 33 00-0400			74" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit <small>(11 41 33 00-0249)</small>		
11 41 33 00-0401	EA		18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	580.52	32.58
11 41 33 00-0402	EA		18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	636.17	33.11
11 41 33 00-0403	EA		18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	709.81	33.63
11 41 33 00-0404	EA		18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	754.59	34.16
11 41 33 00-0405	EA		24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	632.50	33.11
11 41 33 00-0406	EA		24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	727.78	33.63
11 41 33 00-0407	EA		24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	801.39	34.16
11 41 33 00-0408	EA		24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit.....	911.06	34.68
11 41 33 00-0409			86" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit <small>(11 41 33 00-0249)</small>		
11 41 33 00-0410	EA		18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	598.57	32.58
11 41 33 00-0411	EA		18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	654.21	33.11
11 41 33 00-0412	EA		18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	727.85	33.63
11 41 33 00-0413	EA		18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	772.64	34.16
11 41 33 00-0414	EA		24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	650.55	33.11
11 41 33 00-0415	EA		24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	745.83	33.63
11 41 33 00-0416	EA		24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	819.45	34.16
11 41 33 00-0417	EA		24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit.....	929.09	34.68
11 41 33 00-0418			Stainless Steel Shelving Unit <small>(11 41 33 00-0001)</small>		
11 41 33 00-0419			63" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit <small>(11 41 33 00-0418)</small>		
11 41 33 00-0420	EA		18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	724.32	32.58
11 41 33 00-0421	EA		18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	844.16	33.11
11 41 33 00-0422	EA		18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	995.63	33.63
11 41 33 00-0423	EA		18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	1,154.26	34.16
11 41 33 00-0424	EA		24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	854.20	33.11
11 41 33 00-0425	EA		24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	991.68	33.63
11 41 33 00-0426	EA		24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	1,171.89	34.16
11 41 33 00-0427	EA		24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit.....	1,409.94	34.68
11 41 33 00-0428			74" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit <small>(11 41 33 00-0418)</small>		
11 41 33 00-0429	EA		18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....	749.48	32.58
11 41 33 00-0430	EA		18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit.....	869.32	33.11

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0431 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,024.38	33.63
11 41 33 00-0432 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,179.41	34.16
11 41 33 00-0433 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	879.36	33.11
11 41 33 00-0434 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,016.84	33.63
11 41 33 00-0435 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,197.04	34.16
11 41 33 00-0436 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,435.11	34.68
11 41 33 00-0437 86" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0438 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	774.64	32.58
11 41 33 00-0439 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	894.48	33.11
11 41 33 00-0440 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,049.53	33.63
11 41 33 00-0441 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,204.58	34.16
11 41 33 00-0442 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	904.52	33.11
11 41 33 00-0443 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,042.00	33.63
11 41 33 00-0444 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,222.21	34.16
11 41 33 00-0445 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,460.26	34.68
11 41 33 00-0446 63" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0447 EA 18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,189.40	32.58
11 41 33 00-0448 EA 18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,315.12	33.11
11 41 33 00-0449 EA 18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,482.07	33.63
11 41 33 00-0450 EA 18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,582.86	34.16
11 41 33 00-0451 EA 24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,425.08	33.11
11 41 33 00-0452 EA 24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,678.85	33.63
11 41 33 00-0453 EA 24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,863.89	34.16
11 41 33 00-0454 EA 24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	2,140.67	34.68
11 41 33 00-0455 74" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0456 EA 18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,225.42	32.58
11 41 33 00-0457 EA 18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,353.32	33.11
11 41 33 00-0458 EA 18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,523.22	33.63
11 41 33 00-0459 EA 18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,625.72	34.16
11 41 33 00-0460 EA 24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,461.11	33.11
11 41 33 00-0461 EA 24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,714.86	33.63
11 41 33 00-0462 EA 24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,901.94	34.16
11 41 33 00-0463 EA 24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	2,181.82	34.68
11 41 33 00-0464 86" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0465 EA 18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,261.45	32.58
11 41 33 00-0466 EA 18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,388.66	33.11
11 41 33 00-0467 EA 18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,557.67	33.63
11 41 33 00-0468 EA 18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,659.69	34.16
11 41 33 00-0469 EA 24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,497.13	33.11
11 41 33 00-0470 EA 24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,750.89	33.63
11 41 33 00-0471 EA 24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,936.81	34.16
11 41 33 00-0472 EA 24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	2,214.88	34.68
11 41 33 00-0473 Galvanized Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0474 EA 18" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	218.68	23.43
11 41 33 00-0475 EA 18" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	230.39	24.08
11 41 33 00-0476 EA 18" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	243.73	24.74
11 41 33 00-0477 EA 18" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	268.42	25.39
11 41 33 00-0478 EA 18" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	289.86	26.04
11 41 33 00-0479 EA 24" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	234.91	23.43
11 41 33 00-0480 EA 24" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	256.35	24.08
11 41 33 00-0481 EA 24" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	269.69	24.74
11 41 33 00-0482 EA 24" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	292.76	25.39
11 41 33 00-0483 EA 24" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	319.07	26.04
11 41 33 00-0484 Stainless Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0485 EA 18" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	581.95	24.74
11 41 33 00-0486 EA 18" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	728.88	25.39
11 41 33 00-0487 EA 18" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack	1,229.54	26.04
11 41 33 00-0488 EA 24" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	636.22	24.74
11 41 33 00-0489 EA 24" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	791.72	25.39
11 41 33 00-0490 EA 24" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack	1,340.45	26.04
11 41 33 00-0491 Mobile Racks (11 41 33 00-0001)		
11 41 33 00-0492 EA Mobile Rack With Pan Slide.....	1,451.73	39.45
11 41 33 00-0493 Can Racks (11 41 33 00-0001)		



Equipment	11	
Foodservice Equipment	11 40	11
Foodservice Storage Equipment	11 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0494 EA 27-1/4" Wide x 42" Deep x 81-1/16" High, Aluminum Frame Can Rack Note: 156 #10 cans capacity	3,255.58	39.45
11 42 Food Preparation Equipment (11 40)		
11 42 13 Food Preparation Appliances (11 42)		
11 42 13 00-0001 Vertical Cutter Mixers (11 42 13)		
11 42 13 00-0002 EA Bench Type Mixers, 25 Quart	8,604.71	248.14
11 42 13 00-0003 EA Bench Type Mixers, 40 Quart	9,944.93	275.72
11 42 13 00-0004 EA Bench Type Mixers, 80 Quart	12,378.00	397.03
11 42 13 00-0005 EA Bench Type Mixers, 130 Quart	13,863.62	496.29
11 42 13 00-0006 Choppers (11 42 13)		
11 42 13 00-0007 EA Choppers, 5 LB	2,262.99	220.57
11 42 13 00-0008 EA Choppers, 16 LB	3,310.61	286.75
11 42 13 00-0009 EA Choppers, 35 LB - 40 LB	6,267.49	352.91
11 42 13 00-0010 EA Choppers, 35 LB - 40 LB/Min, 2 HP	5,173.86	313.54
11 42 13 00-0011 EA Choppers, 35 LB - 40 LB/Min, 3 HP	5,845.56	313.54
11 42 13 00-0012 Stand Model Mixer (11 42 13)		
11 42 13 00-0013 EA 10 Quart, 120 Volt, 3/4 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Avantco MX10)	1,032.39	93.29
11 42 13 00-0014 EA 20 Quart, 120 Volt, 1-1/2 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Avantco MX20)	1,274.39	93.29
11 42 13 00-0015 EA 10 Quart, 120 Volt, 1/3 HP, Gear-Driven Commercial Planetary Stand Mixer With Guard (Globe SP10)	3,297.51	93.29
11 42 13 00-0016 EA 20 Quart, 240 Voltage, 1/2 HP, Gear-Driven Commercial Planetary Stand Mixer With Stainless Steel Bowl Guard (Hobart HL-200-1)	6,935.07	104.77
11 42 13 00-0017 Floor Model Mixer (11 42 13)		
11 42 13 00-0018 EA 30 Quart, 120 Voltage, 1-3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX30)	2,605.39	93.29
11 42 13 00-0019 EA 40 Quart, 240 Voltage, 2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX40)	3,594.15	103.68
11 42 13 00-0020 EA 60 Quart, 240 Voltage, 2-1/2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Avantco MX60)	6,161.04	116.62
11 42 13 00-0021 EA 30 Quart, 240 Voltage, 3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-300-1)	13,133.42	104.77
11 42 13 00-0022 EA 40 Quart, 240 Voltage, 1-1/2 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-400-1)	16,113.87	107.52
11 42 13 00-0023 EA 60 Quart, 220-240 Voltage, 2-3/4 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-600-1)	20,509.61	110.29
11 42 13 00-0024 EA 80 Quart, 220-240 Voltage, 3 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL800-1)	30,274.77	137.85
11 42 13 00-0025 EA 140 Quart, 220-240 Voltage, 5 HP, Gear-Driven Commercial Planetary Floor Mixer With Stainless Steel Bowl Guard (Hobart HL-1400-1)	38,781.73	176.46
11 42 13 00-0026 Slicers (11 42 13)		
11 42 13 00-0027 EA 1/3 HP, 12" Manual Gravity Feed Meat Slicer (Avantco SL312)	772.98	29.16
11 42 13 00-0028 EA 1/2 HP, 12" Manual Gravity Feed Meat Slicer (Avantco SL512)	1,128.90	29.16
11 42 13 00-0029 EA 1/2 HP, 13" Medium-Duty Manual Gravity Feed Meat Slicer (Avantco SL713MAN)	1,629.16	29.16
11 42 13 00-0030 EA 1/2 HP, 12" Medium-Duty Automatic Meat Slicer With Manual Use Option (Avantco SL612A)	2,772.64	29.16
11 42 13 00-0031 EA 3/4 HP, 13" Medium-Duty Automatic Meat Slicer With Manual Use Option (Avantco SL713A)	3,058.50	29.16
11 42 13 00-0032 EA 1/2 HP, 13" Heavy-Duty Automatic Gravity Feed Meat Slicer (Hobart EDGE13A-11)	5,621.31	29.16
11 42 13 00-0033 Peelers (11 42 13)		
11 42 13 00-0034 EA 22 Lb, 120 Voltage, Potato Peeler (Sammic PI-10)	2,815.64	179.21
11 42 13 00-0035 EA 44 Lb, 120 Voltage, Potato Peeler (Sammic PI-20)	3,259.96	208.99
11 42 13 00-0036 EA 66 Lb, 120 Voltage, Potato Peeler (Sammic PI-30)	4,994.42	238.99
11 42 13 00-0037 EA 20 Lb, 115 Voltage, Potato Peeler (Hobart 6115)	4,435.88	179.21
11 42 13 00-0038 EA 40 Lb, 115 Voltage, Potato Peeler (Hobart 6430-1)	8,905.21	208.99
11 42 13 00-0039 EA 60 Lb, 115 Voltage, Potato Peeler (Hobart 6460-1)	9,487.45	238.99
11 42 13 00-0040 Proof Boxes (11 42 13)		
11 42 13 00-0041 EA 30-1/2" x 22-1/2", Stainless Steel Proof Box	2,642.48	90.87
11 42 13 00-0042 EA 30-1/2" x 45", Stainless Steel Proof Box	4,421.85	152.29
11 42 13 00-0043 EA 30-1/2" x 45", Galvanized Proof Box	2,838.63	69.13
11 42 13 00-0044 Non-Insulated Heated Proof Cabinet (11 42 13)		
11 42 13 00-0045 EA Angle Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,666.34	87.08
11 42 13 00-0046 EA Angle Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet	1,787.33	93.11
11 42 13 00-0047 EA Channel Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,655.00	86.38
11 42 13 00-0048 EA Channel Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet	1,754.08	91.57

11	11 Equipment
	11 40 Foodservice Equipment
	11 42 Food Preparation Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 42 13 00-0049 Insulated Heated Proof Cabinet <small>(11 42 13)</small>		
11 42 13 00-0050 EA 3 Spacing, 69-3/4" High Solid Door Insulated Heated Proof Cabinet.....	2,690.33	133.94
11 42 13 00-0051 EA 3 Spacing 69-3/4" High Sliding Door Insulated Heated Proof Proof Cabinet.....	2,811.45	140.02
11 42 13 00-0052 Pass-Thru Hot Food Holding Cabinet <small>(11 42 13)</small>		
11 42 13 00-0053 EA Single Section, Full Door, Pass-Thru Hot Food Holding Cabinet.....	6,141.23	231.60
11 42 13 00-0054 EA Single Section, Half Door, Pass-Thru Hot Food Holding Cabinet.....	6,527.61	231.60
11 42 13 00-0055 EA Two Section, Full Door, Pass-Thru Hot Food Holding Cabinet.....	8,313.16	242.62
11 42 13 00-0056 EA Two Section, Half Door, Pass-Thru Hot Food Holding Cabinet.....	9,102.44	242.62
11 42 16 Food Preparation Surfaces <small>(11 42)</small>		
11 42 16 00-0001 Tables <small>(11 42 16)</small>		
11 42 16 00-0002 Baker's Table <small>(11 42 16 00-0001)</small>		
11 42 16 00-0003 EA 4' Open Base Baker's Table.....	851.69	59.71
11 42 16 00-0004 EA 10' Open Base Baker's Table.....	1,671.57	117.07
11 42 16 00-0005 EA 10' Undershelf Baker's Table.....	2,062.46	144.47
11 42 16 00-0006 EA 10' Three Drawers Baker's Table.....	2,212.11	155.13
11 42 16 00-0007 EA 10' Bins Baker's Table.....	3,254.61	228.30
11 42 16 00-0008 EA 10' Bins And Drawers Baker's Table.....	5,110.64	358.37
11 42 16 00-0009 Preparation Table, Stainless Steel, With Undershelf <small>(11 42 16 00-0001)</small>		
11 42 16 00-0010 EA 30" x 72" Square Edge Stainless Steel Preparation Table With Undershelf.....	963.49	31.49
11 42 16 00-0011 EA 30" x 72" Marine Edge Stainless Steel Preparation Table With Undershelf.....	1,039.55	37.81
11 42 16 00-0012 EA 36" x 96" Marine Edge Stainless Steel Preparation Table With Undershelf.....	1,569.46	51.40
11 42 16 00-0013 Preparation Table, Stainless Steel, With Open Front <small>(11 42 16 00-0001)</small>		
11 42 16 00-0014 EA 30" X 72" Round Edge Stainless Steel Preparation Table With Open Front.....	1,014.50	33.13
11 42 16 00-0015 EA 36" X 96" Round Edge Stainless Steel Preparation Table With Open Front.....	1,303.92	42.61
11 42 16 00-0016 EA 36" X 96" Square Edge Stainless Steel Preparation Table With Open Front.....	1,120.06	36.65
11 42 16 00-0017 EA 36" X 96" Marine Edge Stainless Steel Preparation Table With Open Front.....	1,348.18	44.14
11 42 16 00-0018 EA Roller Utility Drawers Stainless Steel Preparation Table With Open Front.....	272.35	8.89
11 42 16 00-0019 Mobile Tables <small>(11 42 16 00-0001)</small>		
11 42 16 00-0020 EA 21-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	2,697.79	28.21
11 42 16 00-0021 EA 32-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	1,462.13	33.84
11 42 16 00-0022 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Mobile Table With Stainless Steel Top.....	1,160.96	38.05
11 42 16 00-0023 Hot Food Tables, Stainless Steel, Gas Or Electric <small>(11 42 16 00-0001)</small>		
11 42 16 00-0024 EA 32-1/4" x 27-1/2" x 41" Stainless Steel Hot Food Tables.....	2,073.44	67.91
11 42 16 00-0025 EA 32-1/4" x 27-1/2" x 21" Stainless Steel Hot Food Tables.....	1,681.81	55.03
11 42 16 00-0026 EA Full Size Pan With Cover Stainless Steel Hot Food Tables.....	139.59	4.57
11 42 16 00-0027 EA Set Of Three 1/3 Size With Cover Stainless Steel Hot Food Tables.....	204.23	6.67
11 42 16 00-0028 EA 58-1/2", 4 Openings Stainless Steel Hot Food Tables.....	4,125.17	142.33
11 42 16 00-0029 EA 114-1/2", 8 Openings Stainless Steel Hot Food Tables.....	8,207.12	283.96
11 42 16 00-0030 Basic Table <small>(11 42 16 00-0001)</small>		
11 42 16 00-0031 LF Table, Basic.....	280.11	21.93
11 42 16 00-0032 Table With Sink <small>(11 42 16)</small>		
11 42 16 00-0033 LF Table With Sink.....	378.93	54.08
11 42 23 Food Preparation Scullery Sinks <small>(11 42)</small>		
11 42 23 00-0001 Stainless Steel Scullery Sinks <small>(11 42 23)</small>		
<small>Note: Excludes faucet. See CSI section 22 42 39 00-0071 for service sink faucets.</small>		
11 42 23 00-0002 EA Stainless Steel Scullery Sink, Single 30" x 24" x 12" Compartment And Drainboard.....	2,049.00	226.94
<i>For Additional Drain Board, Add</i>	<i>178.97</i>	
11 42 23 00-0003 EA Stainless Steel Scullery Sink, Double 30" x 24" x 12" Compartment And Drainboard.....	2,859.91	259.35
<i>For Additional Drain Board, Add</i>	<i>253.57</i>	
11 42 23 00-0004 EA Stainless Steel Scullery Sink, Triple 30" x 24" x 12" Compartment And Drainboard.....	3,754.74	259.35
<i>For Additional Drain Board, Add</i>	<i>336.57</i>	
11 42 23 00-0005 EA Stainless Steel Scullery Sink, Quad 30" x 24" x 12" Compartment And Drainboard.....	5,339.09	259.35
<i>For Additional Drain Board, Add</i>	<i>482.04</i>	
11 42 23 00-0006 EA Stainless Steel Pot Sink, Double 20" x 20" x 18" Compartment And Drainboard.....	3,311.64	259.35
11 42 23 00-0007 EA Stainless Steel Scullery Sink, Double 24" x 24" x 14" Compartment And Drainboards (Elkay WNSF8248LR).....	4,148.41	259.35
<i>For Additional Drain Board, Add</i>	<i>382.42</i>	

11 44 Food Cooking Equipment (11 40)



Equipment	11	
Foodservice Equipment	11 40	11
Food Cooking Equipment	11 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 44 13 Commercial Ranges ^(11 44)

11 44 13 00-0001 Range ^(11 44 13)

11 44 13 00-0002	EA	Heavy Duty Range, With 34" Open Top Oven.....	2,430.86	110.29
11 44 13 00-0003	EA	Range With Fry Top.....	2,430.86	110.29
11 44 13 00-0004	EA	Steel Finish Fry Top.....	5,174.88	170.93
11 44 13 00-0005	EA	Stainless Top Only Fry Top.....	5,171.74	168.98
11 44 13 00-0006	EA	Stainless Top And 2 Sides Fry Top.....	5,976.75	196.74
11 44 13 00-0007	EA	Gas Range, Vulcan #260L.....	5,410.51	175.28
11 44 13 00-0008	EA	Note: Six 12" burners, open top sections, porcelain on steel aeration plates and grates. 24" griddle/broiler, two 26-1/4" x 22" x 14-1/2" ovens porcelain on steel liner and aluminized steel construction, nickel plated oven racks. 48" Range With Casters (Vulcan 48C-4B24GN).....	12,128.66	78.91

11 44 16 Commercial Ovens ^(11 44)

11 44 16 00-0001 Bake Oven ^(11 44 16)

11 44 16 00-0002	EA	55", 208 Voltage, 1 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-3836).....	11,191.45	424.08
11 44 16 00-0003	EA	55", 208 Voltage, 3 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-3836).....	11,191.45	424.08
11 44 16 00-0004	EA	74", 208 Voltage, 1 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-5736).....	15,015.10	424.08
11 44 16 00-0005	EA	74", 208 Voltage, 3 Phase, Single Deck Electric Bake Oven (Bakers Pride EB-1-8-5736).....	15,015.10	424.08
11 44 16 00-0006	EA	55", 208 Voltage, 1 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-3836).....	21,317.61	484.67
11 44 16 00-0007	EA	55", 208 Voltage, 3 Phase, Double Deck Electric Bake Oven (Bakers Pride EB-2-8-3836).....	21,317.61	484.67

11 44 16 00-0008 Rapid-Cook Countertop Bake Ovens ^(11 44 16)

11 44 16 00-0009	EA	6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Digital Control, Stainless Steel Countertop Oven (TurboChef ECS-9500-1).....	8,733.45	19.73
11 44 16 00-0010	EA	800 To 2,200 Watts, 208/240 Volt, Rapid Cook Type, Touchscreen Control, Stainless Steel Classic Countertop Oven (MerryChef E1SM).....	5,180.40	19.73
11 44 16 00-0011	EA	4,700 Watts, 208/240 Volt, 1.2 CF, Rapid Cook Type, Touchscreen Control, Stainless Steel Countertop Oven (MerryChef E3-1330-H).....	4,079.30	19.73
11 44 16 00-0012	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop High-Speed Oven (TurboChef ECO-9500-1).....	6,222.50	19.73
11 44 16 00-0013	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven, Black (TurboChef ECO-9500-5).....	6,476.44	19.73
11 44 16 00-0014	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven, Red (TurboChef ECO-9500-2).....	6,476.44	19.73
11 44 16 00-0015	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Blue (TurboChef ECO-9500).....	6,476.44	19.73
11 44 16 00-0016	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Green (TurboChef ECO-9500).....	6,476.44	19.73
11 44 16 00-0017	EA	800 To 900 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven, White (TurboChef ECO-9500).....	6,476.44	19.73
11 44 16 00-0018	EA	1,600 To 1,700 Watts, 208/240 Volt, 1.05 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven (TurboChef NGC-1280-1).....	12,053.62	19.73
11 44 16 00-0019	EA	6,200 Watts, 208/240 Volt, 1.304 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (MerryChef E4S).....	11,174.85	19.73
11 44 16 00-0020	EA	4,600 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Jetwave Ventless Countertop Oven (Amana JET19V).....	5,966.46	19.73
11 44 16 00-0021	EA	3,200 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Jetwave Countertop Oven (Amana JET14).....	4,875.89	19.73
11 44 16 00-0022	EA	4,600 Watts, 208/240 Volt, 1.2 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Countertop Oven (Amana JET19).....	5,302.63	19.73
11 44 16 00-0023	EA	6,200 Watts, 208/240 Volt, 0.78 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef ENC-9600-601).....	12,685.84	19.73
11 44 16 00-0024	EA	5,700 Watts, 208/240 Volt, 1.38 CF, Accelerated Cook Type, Digital Controls, Stainless Steel Countertop Oven With Teflon® Coating And Touch Screen Display (Amana MXP22TLT).....	11,324.47	19.73
11 44 16 00-0025	EA	1,000 To 2,200 Watts, 208/240 Volt, 0.58 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (MerryChef E2S STANDARD CLASSIC).....	7,918.94	19.73
11 44 16 00-0026	EA	9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, 1 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i5).....	15,942.79	19.73
11 44 16 00-0027	EA	9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, 3 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i5).....	15,942.79	19.73
11 44 16 00-0028	EA	9,500 To 11,500 Watts, 208/240 Volt, 2.2 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i5 Touch).....	16,532.86	19.73
11 44 16 00-0029	EA	11,500 Watts, 208/240 Volt, 2.2 CF, 3 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i5-9500-414-DL).....	16,532.86	19.73
11 44 16 00-0030	EA	1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (Amana MRX1).....	8,764.00	19.73
11 44 16 00-0031	EA	5,000 Watts, 208/240 Volt, 1.45 CF, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef HHB-8603-1).....	8,733.45	19.73
11 44 16 00-0032	EA	6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef I1-9500-400).....	10,654.32	19.73
11 44 16 00-0033	EA	4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Countertop Oven (TurboChef I1-9500-104).....	9,280.31	19.73
11 44 16 00-0034	EA	6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen, Countertop Oven With Panini Press (TurboChef PANINI).....	10,369.83	19.73
11 44 16 00-0035	EA	6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touch Screen Controls, Stainless Steel Countertop Oven With Panini Press (TurboChef PANINI TOUCH).....	10,874.54	19.73
11 44 16 00-0036	EA	4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven With Touch Controls (TurboChef SOTA SNGL MAG TOUCH).....	9,628.03	19.73

11	Equipment
11 40	Foodservice Equipment
11 44	Food Cooking Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 16 00-0037 EA 6,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef WATERLESS STEAMER)	11,705.91	19.73
11 44 16 00-0038 EA 6,200 Watts, 208/240 Volt, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef WATERLESS STEAMER TCH).....	12,227.48	19.73
11 44 16 00-0039 EA 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (Amana MRX2).....	9,238.16	19.73
11 44 16 00-0040 EA 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Black (Amana MRX1 BLACK)	8,869.37	19.73
11 44 16 00-0041 EA 2,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Red (Amana MRX1 RED).....	8,869.37	19.73
11 44 16 00-0042 EA 1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Black (Amana MRX2 BLACK)	9,343.53	19.73
11 44 16 00-0043 EA 1,000 To 3,000 Watts, 208/240 Volt, 0.61 CF, High-Speed Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven, Red (Amana MRX2 RED).....	9,343.53	19.73
11 44 16 00-0044 EA 4,000 To 4,200 Watts, 208/240 Volt, 0.54 CF, Rapid Cook Type, Touchscreen Controls, Powder Coated, Countertop Oven (TurboChef I1-9500-1).....	10,153.82	19.73
11 44 16 00-0045 EA 8,300 To 9,600 Watts, 208/240 Volt, 1.14 CF, 1 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i3)	13,605.71	19.73
11 44 16 00-0046 EA 8,600 To 9,900 Watts, 208/240 Volt, 1.14 CF, 3 Phase, Rapid Cook Type, Digital Controls, Stainless Steel Countertop Oven (TurboChef i3).....	13,605.71	19.73
11 44 16 00-0047 EA 8,300 To 9,600 Watts, 208/240 Volt, 1.14 CF, 1 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i3 Touch)	14,174.70	19.73
11 44 16 00-0048 EA 8,600 To 9,900 Watts, 208/240 Volt, 1.14 CF, 3 Phase, Rapid Cook Type, Touchscreen Controls, Stainless Steel Countertop Oven (TurboChef i3 Touch)	14,174.70	19.73
11 44 16 00-0049 EA 10,720/12,480 Watts, 208/240 Volt, 1.18 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Double Batch Ventless Countertop Oven (TurboChef HHD-9500-1).....	12,753.27	19.73
11 44 16 00-0050 EA 5,616 Watts, 208/240 Volt, 0.99 CF, Rapid Cook Type, Touchscreen Controls, Stainless Steel Single Batch Ventless Countertop Oven (TurboChef HHS-9500-1).....	9,585.88	19.73
11 44 16 00-0051 Combination Ovens <small>(11 44 16)</small> Note: Convection, steam and combination modes.		
11 44 16 00-0052 EA 35.4" x 34" x 26.6" Half Size Electric Boilerless Combination Oven	19,625.26	193.00
11 44 16 00-0053 EA 35.4" x 45" x 36.8" Full Size Electric Boilerless Combination Oven	32,153.06	220.57
11 44 16 00-0054 EA 35.4" x 34" x 36.8 Half Size Electric Boilerless Combination Oven.....	26,579.15	220.57
11 44 16 00-0055 EA 35.4" x 45" x 70.4" Full Size Electric Boilerless Combination Oven.....	64,031.57	275.72
11 44 16 00-0056 EA 35.4" x 34" x 70.4 Half Size Electric Boilerless Combination Oven.....	48,641.53	275.72
11 44 16 00-0057 Countertop Electric Convection Type Ovens <small>(11 44 16)</small>		
11 44 16 00-0058 EA 1,440 Watts, 120 Volt, 0.8 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Quarter Size, Thermostatic Control, Stainless Steel Countertop Electric Convection Oven (Avantco CO-14)	294.72	9.86
11 44 16 00-0059 EA 1,600 Watts, 120 Volt, 1.5 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Half Size, Thermostatic Control, Stainless Steel Countertop Electric Convection Oven (Avantco CO-16)	481.60	9.86
11 44 16 00-0060 EA 2,800 Watts, 208/240 Volt, 2.3 CF, 150 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Thermostatic Control, Half Size, Stainless Steel Countertop Electric Convection Oven (Avantco CO-28).....	568.63	9.86
11 44 16 00-0061 EA 2,800 Watts, 208/240 Volt, 2.3 CF, 150 To 500 Degrees Fahrenheit Temperature Range, 2.3 CF, One Glass Door, Half Size, Stainless Steel Countertop Electric Convection Oven With Steam Injection (Avantco CO-32).....	733.63	9.86
11 44 16 00-0062 EA 3,500 To 4,600 Watts, 208-240 Volt, 4.4 CF, 550 Degrees Fahrenheit, Two Glass Doors, Dial Control, Stainless Steel Full Size Electric Countertop Convection Oven (Avantco CO-38)	1,338.63	9.86
11 44 16 00-0063 EA 3,500 To 4,600 Watts, 208 To 240 Volt, 4.4 CF, 150 To 550 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Full Size, Stainless Steel Countertop Electric Cooky Type Convection Oven With Steam Injection (Avantco CO-46)	1,558.63	9.86
11 44 16 00-0064 EA 1,440 Watts, 120 Volt, 0.8 CF, 500 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Quarter Size, Stainless Steel Countertop Electric Convection Oven (Galaxy COE3Q)	261.72	9.86
11 44 16 00-0065 EA 1,600 Watts, 120 Volt, 1.5 CF, 500 Degrees Fahrenheit, One Glass Door, Half Size, Dial Control, Stainless Steel Countertop Electric Convection Oven (Galaxy COE3H).....	437.72	9.86
11 44 16 00-0066 EA 1,700 Watts, 120 Volt, 27-15/16" Length x 23-5/8" Width x 24" Height, 200 To 500 Degrees Fahrenheit Temperature Range, One Glass Door, Half Size, Stainless Steel 4 Pan Electric Countertop Convection Oven (Global Solutions GS1110-17).....	1,260.59	9.86
11 44 16 00-0067 EA 1,400 Watts, 120 Volt, 1.19 CF, 150 - 570 Degrees Fahrenheit Temperature Range, One Glass Door, Thermostatic Control, Stainless Steel Half Size Electric Countertop Convection Oven (Vollrath 40703)	1,146.29	9.86
11 44 16 00-0068 EA 2,400 Watts, 230 Volt, 1.9 CF, 150 - 570 Degrees Fahrenheit Temperature Range, One Glass Door, Dial Control, Stainless Steel Half Size Electric Countertop Convection Oven (Vollrath 40701)	1,560.61	9.86
11 44 16 00-0069 EA 5,600 Watts, 230 Volt, 4.27 CF, 150 - 570 Degrees Fahrenheit Temperature Range, 1 Glass Door, Dial Control, Stainless Steel Full Size Electric Countertop Convection Oven (Vollrath 40702)	2,534.44	9.86
11 44 16 00-0070 Electric Convection Type Ovens <small>(11 44 16)</small>		
11 44 16 00-0071 EA 11 kW, 240 Volt, Two Glass Doors, 41-1/2" x 38-1/8" x 54-1/8", Single Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC-100).....	2,664.20	39.46
11 44 16 00-0072 EA 22 kW, 240 Volt, 1 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200BK).....	5,284.56	78.91
11 44 16 00-0073 EA 22 kW, 240 Volt, 3 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200CK).....	5,284.56	78.91
11 44 16 00-0074 EA 22 kW, 240 Volt, 3 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200EK)	5,126.73	
11 44 16 00-0075 EA 22 kW, 208 Volt, 1 Phase, Four Glass Doors, 41-1/2" x 38" x 63-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Cooking Performance Group FEC200BK)	5,284.56	78.91
11 44 16 00-0076 EA 24 kW, 208 Volt, 3 Phase, Four Glass Doors, 40" x 40-1/8" x 68-13/16", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC55ED-208/3).....	8,693.01	78.91
11 44 16 00-0077 EA 12 kW, 208 Volt, 3 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-11D1 208/3)	4,346.50	39.46



Equipment	11	
Foodservice Equipment	11 40	11
Food Cooking Equipment	11 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 16 00-0078 EA 12 kW, 240 Volt, 1 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-12D1 240/1)	4,346.50	39.46
11 44 16 00-0079 EA 12.5 kW, 208 Volt, 3 Phase, Two Glass Doors, 41-1/8" x 40-1/4" x 54-3/4", Single Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC4ED-11D1 208/3)	4,768.20	39.46
11 44 16 00-0080 EA 12 kW, 208 Volt, 1 Phase, Two Glass Doors, 40" x 40-1/8" x 54", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-11D1 208/1)	4,346.50	39.46
11 44 16 00-0081 EA 12 kW, 240 Volt, 3 Phase, Two Glass Doors, 40" x 40-1/8" x 24", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Vulcan VC5ED-12D1 240/3)	4,346.50	39.46
11 44 16 00-0082 EA 25 kW, 208 Volt, 3 Phase, Four Glass Doors, 41-1/8" x 40" x 70", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC44ED-208/3)	9,536.41	78.91
11 44 16 00-0083 EA 11 kW, 220/240 Volt, 1 Phase, Two Glass Doors, 36-7/8" x 38-1/4" x 57", Single Deck, Stainless Steel Full Size Electric Convection Oven With Legs (Blodgett SHO-100-E)	4,059.75	39.46
11 44 16 00-0084 EA 22 kW, 208 Volt, 3 Phase, Four Glass Doors, 36-7/8" x 38-1/4" x 70", Double Deck, Stainless Steel Full Size Electric Convection Oven (Blodgett SHO-100-E)	8,119.50	78.91
11 44 16 00-0085 EA 24 kW, 208 Volt, 1 Phase, Four Glass Doors, 40" x 40-1/8" x 68 13/16", Double Deck, Stainless Steel Full Size Electric Convection Oven (Vulcan VC55ED-208/1)	8,693.01	78.91
11 44 16 00-0086 EA 21 kW, 208 Volt, 1 Phase, Four Glass Doors, 46" x 40" x 74-1/2", Double Deck, Stainless Steel Full Size Electric Convection Oven (Bakers Pride BPCV-E2 208/1)	10,985.76	78.91
11 44 16 00-0087 Natural Gas Convection Type Ovens (11 44 16)		
11 44 16 00-0088 EA 54,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven With Legs (Cooking Performance Group FGC100N)	2,801.78	39.46
11 44 16 00-0089 EA 108,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven With Legs (Cooking Performance Group FGC200N)	5,399.54	
11 44 16 00-0090 EA 100,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Stainless Steel Double Deck Full Size Natural Gas Convection Oven With Solid State Controls (Vulcan VC44GD-NAT)	9,549.88	78.91
11 44 16 00-0091 EA 100,000 BTU, 150 To 550 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Vulcan VC55GD)	9,147.20	78.91
11 44 16 00-0092 EA 100,000 BTU, 500 Degrees Fahrenheit, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Blodgett SHO-100-G)	8,543.17	78.91
11 44 16 00-0093 EA 50,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven with Solid State Controls And Legs (Vulcan VC4GD-11D150K)	4,774.94	39.46
11 44 16 00-0094 EA 120,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Bakery Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-200-G)	4,696.03	
11 44 16 00-0095 EA 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Standard Depth Full Size Natural Gas Convection Oven With Analog Controls (Garland MCO-GS-20S)	13,326.84	78.91
11 44 16 00-0096 EA 50,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven (Blodgett SHO-100-G)	4,271.58	39.46
11 44 16 00-0097 EA 100,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Bakery Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-200-G-ES)	11,693.59	78.91
11 44 16 00-0098 EA 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Digital Control, Stainless Steel Double Deck Standard Depth Full Size Natural Gas Convection Oven With Digital Controls (Garland MCO-GS-20)	17,354.88	78.91
11 44 16 00-0099 EA 120,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Garland MCO-GS-20-ESS)	13,169.01	
11 44 16 00-0100 EA 100,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Standard Depth Natural Gas Convection Oven With Draft Diverter (Blodgett ZEPHAIRE-100-G)	10,923.75	78.91
11 44 16 00-0101 EA 90,000 BTU, 200 - 500 Degrees Fahrenheit Temperature Range, Four Glass Doors, Dial Control, Stainless Steel Double Deck Full Size Natural Gas Convection Oven (Blodgett BDO-100-G-ES)	9,727.54	78.91
11 44 16 00-0102 EA 50,000 BTU, 150 - 500 Degrees Fahrenheit Temperature Range, Two Glass Doors, Dial Control, Stainless Steel Single Deck Full Size Natural Gas Convection Oven With Legs (Vulcan VC5GDN)	4,573.59	39.46
11 44 16 00-0103 Broiler, Without Oven (11 44 16)		
11 44 16 00-0104 EA 69" x 26" x 39" Broiler Without Oven	6,705.89	176.46
11 44 16 00-0105 EA Conveyor Broiler	5,977.22	204.80
11 44 16 00-0106 Oven Stands (11 44 16)		
11 44 16 00-0107 EA Stationary Oven Stand (Rational 60.30.334 US III UltraVent® Stationary Oven Stand)	1,554.20	
11 44 16 00-0108 Triple Conveyor Oven (11 44 16)		
11 44 16 00-0109 EA 30 kW, 208 Volt, Three Door, Single Belt, Triple Conveyor, FastBake Stainless Steel Impingement Cook Type Oven Package (Lincoln 1180-3/1180-FB3)	36,959.58	157.83
Note: 39" Length x 56" Width x 62" Height, 250 To 575 Degrees Fahrenheit Temperature Range		
11 44 16 00-0110 EA 30 kW, 240 Volt, Three Door, Single Belt, Triple Conveyor, FastBake Stainless Steel Impingement Cook Type Oven Package (Lincoln 1180-3/1180-FB3)	36,959.58	157.83
Note: 39" Length x 56" Width x 62" Height, 250 To 575 Degrees Fahrenheit Temperature Range		
11 44 16 00-0111 EA 22 kW, 208 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3)	71,875.29	157.83
Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range		
11 44 16 00-0112 EA 22 kW, 220 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3)	68,259.75	157.83
Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range		

11	Equipment
11 40	Foodservice Equipment
11 44	Food Cooking Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 16 00-0113	EA		22 kW, 240 Volt, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....	68,259.75	157.83
			Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range		
11 44 16 00-0114	EA		330,000 BTU, Natural Gas, Three Door, Triple Conveyor, Low Profile FastBake Stainless Steel, Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....	71,875.29	157.83
			Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range		
11 44 16 00-0115	EA		330,000 BTU, Liquid Propane, Three Door, Triple Conveyor, Stainless Steel Low Profile FastBake Impingement Cook Type Oven Package (Lincoln 1600-3/1600-FB3).....	71,875.29	157.83
			Note: 60-1/2" Length x 80" Width x 66-3/8" Height, 250 To 600 Degrees Fahrenheit Temperature Range		
11 44 19 Commercial Cooking Equipment (11 44)					
11 44 19 00-0001 Drop-In Electric Griddle (11 44 19)					
11 44 19 00-0002	EA		24" Wide x 24" Deep, Drop-In Electric Griddle.....	3,498.72	151.65
11 44 19 00-0003	EA		36" Wide x 24" Deep, Drop-In Electric Griddle.....	4,946.48	151.65
11 44 19 00-0004	EA		48" Wide x 24" Deep, Drop-In Electric Griddle.....	5,657.73	165.43
11 44 19 00-0005	EA		60" Wide x 24" Deep, Drop-In Electric Griddle.....	6,755.05	165.43
11 44 19 00-0006	EA		72" Wide x 24" Deep, Drop-In Electric Griddle.....	8,642.89	179.21
11 44 19 00-0007 Countertop Griddle (11 44 19)					
11 44 19 00-0008	EA		16", 120 Voltage, 1750 Watt, Electric Countertop Griddle (Avantco EG16N).....	582.46	154.24
11 44 19 00-0009	EA		24", 208/240 Voltage, 2675 To 3560 Watt, Electric Countertop Griddle (Avantco EG24N).....	725.47	154.24
11 44 19 00-0010	EA		30", 208/240 Voltage, 3375 To 4500 Watt, Electric Countertop Griddle (Avantco EG30N).....	808.89	154.24
11 44 19 00-0011	EA		36", 208/240 Voltage, 7488 To 10080 Watt, Electric Countertop Griddle (Avantco EG36N).....	1,022.22	154.24
11 44 19 00-0012	EA		24", 220 Voltage, Thermostatic Electric Griddle (Vollrath 40716).....	1,111.01	154.24
11 44 19 00-0013	EA		36", 220 Voltage, Thermostatic Electric Griddle (Vollrath 40717).....	1,429.56	154.24
11 44 19 00-0014 Panini Sandwich Grill (11 44 19)					
11 44 19 00-0015	EA		3,500 Watts, 120 Volt, Double Commercial Panini Sandwich Grill With Smooth Plates (Avantco P85S).....	511.28	78.91
11 44 19 00-0016	EA		1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Grooved Plates (Avantco P78).....	395.39	78.91
11 44 19 00-0017	EA		1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Smooth Plates (Avantco P70S).....	395.39	78.91
11 44 19 00-0018	EA		1,750 Watts, 120 Volt, Commercial Panini Sandwich Grill With Grooved Top and Smooth Bottom Plates (Avantco P75SG).....	395.39	78.91
11 44 19 00-0019	EA		2,392 Watts, 208 Volt, Panini Perfetto Grooved Top And Bottom Panini Sandwich Grill (Waring WPG150B).....	793.89	78.91
11 44 19 00-0020 Electric Countertop Fryer, With Submerger (11 44 19)					
11 44 19 00-0021	EA		30 LB Capacity, 208-240 Volt, Two Basket, Countertop Deep Fryer (Avantco F202).....	776.72	78.91
11 44 19 00-0022	EA		30 LB Capacity, 208-240 Volt, Four Basket, Commercial Countertop Deep Fryer (Vollrath 40710).....	1,684.58	78.91
11 44 19 00-0023	EA		30 LB Capacity, 240 Volt, Two Basket, Countertop Electric Deep Fryer (Garland E24-31F).....	6,221.09	78.91
11 44 19 00-0024 Electric Floor Fryer, With Submerger (11 44 19)					
11 44 19 00-0025	EA		50 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....	5,514.09	220.57
11 44 19 00-0026	EA		50 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....	5,782.96	220.57
11 44 19 00-0027	EA		85 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....	18,283.39	286.75
11 44 19 00-0028	EA		85 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....	18,724.61	286.75
11 44 19 00-0029 Kettles, Steam Jacketed (11 44 19)					
11 44 19 00-0030	EA		5 Gallon Kettle, With Stand.....	3,745.31	105.17
11 44 19 00-0031	EA		20 Gallon Kettle With Steam Jacket.....	14,278.32	140.22
11 44 19 00-0032	EA		40 Gallon Kettle With Steam Jacket.....	14,763.76	154.25
11 44 19 00-0033	EA		60 Gallon Kettle With Steam Jacket.....	17,867.39	168.27
11 44 19 00-0034 Steamers, Electric (11 44 19)					
11 44 19 00-0035 Cooking Equipment/ Steamers (11 44 19 00-0034)					
11 44 19 00-0036	EA		3 Pan, Electric Countertop Convection Steamer.....	7,538.90	231.60
11 44 19 00-0037	EA		5 Pan, Electric Countertop Convection Steamer.....	9,902.67	242.62
11 44 19 00-0038	EA		3 Pan, Electric Countertop Boilerless/Connectionless Steamer.....	6,982.76	231.60
11 44 19 00-0039	EA		5 Pan, Electric Countertop Boilerless/Connectionless Steamer.....	10,142.80	242.62
11 44 19 00-0040 Braising Pans (11 44 19)					
11 44 19 00-0041	EA		24" x 24", 240 Volt, Tilting Braising Pan.....	7,983.20	244.42
11 44 19 00-0042	EA		24" x 31", 240 Volt, Tilting Braising Pan.....	8,423.94	257.03
11 44 19 00-0043	EA		24" x 41", 240 Volt, Tilting Braising Pan.....	8,972.16	273.72
11 44 19 00-0044	EA		24" x 24", 62,000 BTU/Hour, Tilting Braising Pan.....	10,407.08	318.73
11 44 19 00-0045	EA		24" x 31", 90,000 BTU/Hour, Tilting Braising Pan.....	10,761.03	328.55
11 44 19 00-0046	EA		24" x 41", 120,000 BTU/Hour, Tilting Braising Pan.....	11,177.50	337.25
11 44 19 00-0047 Toasters (11 44 19)					
11 44 19 00-0048	EA		Bun Toaster 3.2 KW.....	1,573.13	45.66
11 44 19 00-0049	EA		Bun Toaster 4.3 KW.....	1,716.80	49.76



Equipment	11
Foodservice Equipment	11 40
Food Cooking Equipment	11 44

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 19 00-0050	EA		Pop-Up Toaster, 2 Slot	515.23	119.43
11 44 19 00-0051	EA		Conveyor Toaster	869.80	179.21
11 44 19 00-0052			Microwave Ovens <small>(11 44 19)</small>		
11 44 19 00-0053	EA		120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Office Series Microwave With Dial Controls (Galaxy MW1000PD).....	170.73	9.86
11 44 19 00-0054	EA		120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Office Series Microwave With Push Button Controls (Galaxy MW1000PB).....	187.51	9.86
11 44 19 00-0055	EA		120 Volt, 1,000 Watt, 20" Length x 18" Width x 12" Height, Stainless Steel Commercial Microwave With Push Button Controls (Solwave MW1000SS).....	243.44	9.86
11 44 19 00-0056	EA		120 Volt, 1,000 Watt, 2 CF, 22" Length x 18" Width x 13-1/2" Height, Stackable Commercial Microwave With Dial Controls (Solwave MW112D)	310.55	9.86
11 44 19 00-0057	EA		120 Volt, 1,000 Watt, 2 CF, 22" Length x 18" Width x 13 1/2" Height, Stackable Commercial Microwave With Dial Controls (Solwave MW112T).....	388.85	9.86
11 44 19 00-0058	EA		120 Volt, 1,000 Watt, 16-1/2" Length x 20" Width x 12-1/4" Height, Stainless Steel Commercial Microwave With Dial Controls (Solwave RMS10DS)	243.44	9.86
11 44 19 00-0059	EA		120 Volt, 1,000 Watt, 16-1/2" Length x 20" Width x 12-1/4" Height, Stainless Steel Commercial Microwaves With Push Button Controls (Amana RMS10TS)	284.27	9.86
11 44 19 00-0060	EA		120 Volt, 1,000 Watt, 19" Length x 22" Width x 13-3/4" Height, Medium Volume, Stainless Steel Commercial Microwave (Amana RCS10DSE).....	502.96	9.86
11 44 19 00-0061	EA		120 Volt, 1,000 Watt, 19" Length x 22" Width x 13-7/8" Height, Stackable, Commercial Microwave With Push Button Controls (Amana RCS10TS).....	613.70	9.86
11 44 19 00-0062	EA		120 Volt, 1,000 Watt, 21-5/8" Length x 16-1/2" Width x 13-1/2" Height, Stainless Steel, Heavy Duty Commercial Microwave With Push Button Controls (Amana HDC12A2).....	1,288.21	9.86
11 44 19 00-0063	EA		120 Volt, 1,000 Watt, 18-1/8" Length x 20-1/2" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Manual Controls (Vollrath 40830)	355.08	9.86
11 44 19 00-0064	EA		120 Volt, 1,000 Watt, 18-1/8" Length x 20-1/2" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Digital Controls (Vollrath 40819).....	484.00	9.86
11 44 19 00-0065	EA		120 Volt, 1,000 Watt, 17" Length x 20" Width x 12-1/4" Height, Stainless Steel, Commercial Microwave With Push Button Controls (Waring WMO90).....	372.09	9.86
11 44 19 00-0066	EA		120 Volt, 1,000 Watt, 16-9/16" Length x 20-1/8" Width x 13" Height, Stainless Steel, Commercial Microwave With Push Button Controls (Panasonic NE-1054F)	327.34	9.86
11 44 19 00-0067	EA		120 Volt, 1,000 Watt, 16-3/8" Length x 20-1/8" Width x 12" Height, Stainless Steel Microwave With Programmable Memory Pads (Panasonic NE-1064F).....	633.84	9.86
11 44 19 00-0068	EA		120 Volt, 1,000 Watt, 16-9/16" Length x 20-1/8" Width x 13" Height, Stainless Steel Commercial Microwave With Dial Timer (Panasonic NE-1025).....	293.78	9.86
11 44 19 00-0069	EA		120 Volt, 1,200 Watt, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Stainless Steel Commercial Microwave With Programmable Menu And Auto Cool Down (Solwave MW1200T)	611.46	9.86
11 44 19 00-0070	EA		120 Volt, 1,200 Watt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, 100 Programmable Menu Items, See-through Door, USB Port, Commercial Heavy Duty Stainless Steel Microwave (Solwave MWHD12)	678.58	9.86
11 44 19 00-0071	EA		120 Volt, 1,200 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 15 Integrated Power Levels, See-through Door, Stainless Steel, Commercial, Medium Duty, Microwave With 90 Programmable Menu Pads (Panasonic NE-12523).....	1,138.32	9.86
11 44 19 00-0072	EA		120 Volt, 1,200 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, Programmable, 15 Power Levels, Stainless Steel, Commercial, Medium Duty, Microwave With Push Button Controls (Panasonic NE-12521)	1,056.66	9.86
11 44 19 00-0073	EA		120 Volt, 2,000 Watt, 21" Length x 21-3/4" Width x 14-3/8" Height, 4 Cooking Stages, 5 Power Levels, Stainless Steel, Commercial, Medium Duty, Microwave With Push Button Controls (Amana RFS12TS).....	1,243.47	9.86
11 44 19 00-0074	EA		208/230-240 Volt, 1,700 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 3-Stage Cooking, See-through Door, Stainless Steel, Commercial Microwave With LCD Display (Panasonic NE-17521).....	1,165.17	9.86
11 44 19 00-0075	EA		208/230-240 Volt, 1,700 Watt, 20" Length x 16-5/8" Width x 13" Height, LCD Display With Digital Countdown, Stainless Steel, Commercial Microwave With 90 Programmable Memory Pads (Panasonic NE-17523).....	1,308.35	9.86
11 44 19 00-0076	EA		208/230-240 Volt, 2,100 Watt, 20-3/4" Length x 25-9/16" Width x 18-9/16" Height, Sonic Steamer, Stainless Steel, Commercial Microwave With 8 Programmable Memory Pads (Panasonic NE-2180).....	3,528.19	9.86
11 44 19 00-0077	EA		208/230-240 Volt, 3,200 Watt, 20-3/4" Length x 25-9/16" Width x 18-5/8" Height, Sonic Steamer, See-through Door, Stainless Steel, Commercial Microwave With 3-stage Cook (Panasonic NE-3280)	4,675.86	9.86
11 44 19 00-0078	EA		208/230 Volt, 1,800 Watt, 20-1/4" Length x 21-3/4" Width x 14-1/4" Height, Stainless Steel, Commercial, Medium Duty Microwave With Push Button Controls (Amana RFS18TS).....	1,459.36	9.86
11 44 19 00-0079	EA		208/230 Volt, 2,200 Watt, 23-1/2" Length x 25-5/8" Width x 18-5/8" Height, Stainless Steel, Heavy Duty, 2 Pan Programmable Microwave (Amana AMSO22).....	4,550.02	9.86
11 44 19 00-0080	EA		208/230 Volt, 2,400 Watt, 19-3/16" Length x 13-5/8" Width x 17-5/8" Height, 11 Power Levels, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana AOC24).....	2,808.37	9.86
11 44 19 00-0081	EA		208/240 Volt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, Space Saver, USB Port, Stainless Steel, Commercial, Heavy Duty Microwave (Solwave MWHD18)	756.88	9.86
11 44 19 00-0082	EA		208/240 Volt, 2,100 Watt, 1.2 CF, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Large, Stainless Steel, Stackable, Commercial Microwave With Push Button Controls (Solwave MW2100T)	801.62	9.86
11 44 19 00-0083	EA		208/240 Volt, 2,100 Watt, 22-1/4" Length x 16-1/2" Width x 13-1/2" Height, 15 Power Levels, USB Port, Space Saver, Stainless Steel, Heavy Duty, Commercial Microwave With Push Button Controls (Solwave MWHD21).....	857.55	9.86
11 44 19 00-0084	EA		208/240 Volt, 1,700 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, See-through Door, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC17S2).....	2,063.39	9.86
11 44 19 00-0085	EA		208/240 Volt, 1,800 Watt, 1.2 CF, 20-5/8" Length x 22-5/8" Width x 14-1/2" Height, Large, Stainless Steel, Commercial Microwave With Push Button Controls (Solwave MW1800T).....	689.77	9.86
11 44 19 00-0086	EA		208/240 Volt, 1,800 Watt, 21-5/8" Length x 15-1/2" Width x 13-1/2" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana HDC182).....	1,509.69	9.86
11 44 19 00-0087	EA		208/240 Volt, 1,800 Watt, 31-5/8" Length x 16-1/2" Width x 13-1/3" Height, Stainless Steel Commercial, Heavy Duty Microwave With Push Button Controls, Canadian Use Only (Amana HDC1815).....	1,519.76	9.86
11 44 19 00-0088	EA		208/240 Volt, 1,800 Watt, 20-3/4" Length x 22-3/5" Width x 14-1/2" Height, Stainless Steel, Commercial, Medium Duty Microwave With Push Button Controls (Waring WMO120)	1,417.97	9.86
11 44 19 00-0089	EA		208/240 Volt, 2,100 Watt, 21-5/8" Length x 15-1/2" Width x 13-1/2" Height, 100 Programmable Menu Items, 11 Integrated Power Levels, Stainless Steel, Commercial, Heavy Duty Microwave (Amana HDC212)	1,580.16	9.86
11 44 19 00-0090	EA		208/240 Volt, 2,100 Watt, 20" Length x 16-5/8" Width x 13-3/16" Height, 5 Cooking Stages, Half-size Pans, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Panasonic NE-21521).....	1,429.15	9.86
11 44 19 00-0091	EA		208/240 Volt, 2,200 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC22S2).....	2,576.83	9.86

11	11 Equipment
	11 40 Foodservice Equipment
	11 44 Food Cooking Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 19 00-0092 EA 208/240 Volt, 2,200 Watt, 25-1/2" Length x 19-1/4" Width x 18-1/8" Height, Stainless Steel, Commercial, Heavy Duty Microwave With Push Button Controls (Amana RC30S2)	3,382.21	9.86
11 44 19 00-0093 Ceramic Broiler On Storage Base With Doors (11 44 19)		
11 44 19 00-0094 EA Standard Finish Ceramic Boiler On Storage Base With Doors	6,577.16	200.39
11 44 19 00-0095 EA Stainless Steel Front Ceramic Boiler On Storage Base With Doors	6,577.16	200.39
11 44 19 00-0096 EA Stainless Steel Front And Sides Ceramic Boiler On Storage Base With Doors	8,175.21	250.17
11 44 19 00-0097 Gas Countertop Hot Plate (11 44 19)		
11 44 19 00-0098 EA 2 Burners Gas Countertop Hot Plate	838.53	25.52
11 46 Food Dispensing Equipment (11 46)		
11 46 13 Bar Equipment (11 46)		
11 46 13 00-0001 Soft Serve Machines (11 46 13)		
11 46 13 00-0002 EA Soft Serve Machines, Medium	9,642.24	130.36
11 46 13 00-0003 EA Soft Serve Machines, Large	16,227.98	159.25
11 46 13 00-0004 Salad Bars (11 46 13)		
11 46 13 00-0005 EA 96" Refrigerated Salad Bar With Light 54" Height	12,922.12	543.38
11 46 13 00-0006 EA 96" Refrigerated Salad Bar Without Light 54" Height	11,863.49	543.38
11 46 13 00-0007 EA 96" Iced Salad Bar Without Light 54" Height	8,322.21	298.54
11 46 13 00-0008 EA 79" Iced Salad Bar Without Light 54" Height	6,583.88	245.26
11 46 13 00-0009 EA 79" Refrigerated Salad Bar Without Light 54" Height	9,998.65	359.82
11 46 13 00-0010 EA 114" Iced Salad Bar 34" Height	10,995.20	318.73
11 46 13 00-0011 EA Salad Bar Tray Fixed	1,237.10	53.98
11 46 13 00-0012 EA Salad Bar Tray Hinged	1,314.23	53.98
11 46 16 Service Line Equipment (11 46)		
11 46 16 00-0001 Food Warmer Holding Station (11 46 16)		
11 46 16 00-0002 EA Food Warmer Station And Heat Lamp	581.22	16.86
11 46 16 00-0003 Reach-In Food Warmers (11 46 16)		
11 46 16 00-0004 EA One Drawer, 16 Roll Capacity Food Warmer	1,250.77	36.29
11 46 16 00-0005 EA Three Drawer, 36 Roll Capacity Food Warmer	2,862.33	83.12
11 46 16 00-0006 Hot Cabinets With Top Wells Electric (11 46 16)		
11 46 16 00-0007 EA 2 Wells, 2 Compartments Hot Cabinet With Top Wells, Electric	6,723.35	200.39
11 46 16 00-0008 EA 3 Wells, 3 Compartments Hot Cabinet With Top Wells, Electric	9,606.36	287.18
11 46 16 00-0009 Portable Hot Food Units (11 46 16)		
11 46 16 00-0010 EA 46" Wide x 28" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 37030)	4,348.44	
11 46 16 00-0011 EA 60" Wide x 28" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 37040)	4,980.97	
11 46 16 00-0012 EA 74" Wide x 28" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 37050)	5,630.65	
11 46 16 00-0013 Stationary Hot Food Units (11 46 16)		
11 46 16 00-0014 EA 46" Wide x 29-1/2" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 38203)	1,335.04	40.81
11 46 16 00-0015 EA 61-1/4" Wide x 29-1/2" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 38204)	1,789.35	46.98
11 46 16 00-0016 EA 76" Wide x 29-1/2" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 38205)	2,226.00	60.16
11 46 16 00-0017 Serving Counters (11 46 16)		
11 46 16 00-0018 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Straight Section	119.13	44.99
11 46 16 00-0019 LF 11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Curved Section	154.70	68.93
11 46 16 00-0020 Drop-In Equipment (11 46 16)		
11 46 16 00-0021 EA Hot Food Well, Rectangular	506.40	143.37
11 46 16 00-0022 EA Hot Food Well, Circular	472.08	143.37
11 46 16 00-0023 EA Refrigerated Well, 2 Compartment	1,780.93	143.37
11 46 16 00-0024 EA Refrigerated Well, 3 Compartment	2,021.97	159.25
11 46 16 00-0025 EA Refrigerated Well, 4 Compartment	2,296.59	179.21
11 46 16 00-0026 EA Frost Cold Plate	1,708.59	159.25
11 46 16 00-0027 Beverage Dispensing (11 46 16)		



Equipment	11	
Foodservice Equipment	11 40	11
Food Dispensing Equipment	11 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 16 00-0028 EA Coffee Urn, Twin 3 Gallon.....	2,811.08	251.54
11 46 16 00-0029 EA Coffee Urn, Twin 6 Gallon.....	3,999.00	352.11
11 46 16 00-0030 EA Coffee Brewer, 5 Burner.....	1,275.23	251.54
11 46 16 00-0031 EA Hot Chocolate Dispenser.....	1,212.20	207.18
11 46 16 00-0032 EA Iced Tea Brewer.....	1,701.27	207.18
11 46 16 00-0033 EA Juice Dispenser (Concentrate).....	1,323.04	318.29
11 46 16 00-0034 EA Jet Spray Dispenser.....	1,795.53	318.62
11 46 16 00-0035 EA Milk Dispenser, Bulk, 2 Flavor.....	1,453.25	179.21
11 46 16 00-0036 EA Milk Dispenser, Bulk, 3 Flavor.....	1,942.32	179.21
11 46 16 00-0037 Dish Dispensers (11 46 16)		
11 46 16 00-0038 EA Heated Plate Lift; Adjustable Plate Storage And Transport (Adcraft ADC-LR-2).....	1,620.05	29.16
11 46 16 00-0039 EA 12" Diameter, Drop-in, Dish Dispenser.....	547.15	28.17
11 46 16 00-0040 EA Drop-in, Cup And Glass Dispenser.....	943.96	87.58
11 46 16 00-0041 EA Drop-in, Disposable Cup Dispenser.....	339.76	19.73
11 46 16 00-0042 Tray And Silver Dispensers (11 46 16)		
11 46 16 00-0043 EA Tray And Silver Dispensers Mobile.....	2,108.99	19.73
11 46 16 00-0044 Condiment Dispensers (11 46 16)		
11 46 16 00-0045 EA Butter Pat Dispenser.....	129.96	24.69
11 46 16 00-0046 EA Bread Dispenser, Counter Top.....	354.76	24.69
11 46 16 00-0047 Sandwich Rack Warmer (11 46 16)		
11 46 16 00-0048 EA 18 Compartment, 2 Tier Sandwich Rack Warmer.....	2,705.76	134.52
11 46 16 00-0049 Mobile Bread Counter (11 46 16)		
11 46 16 00-0050 EA Mobile Bread And Roll Counter.....	6,207.41	302.41
11 46 16 00-0051 Open Service Stand (11 46 16)		
11 46 16 00-0052 EA 6' Open Service Stand.....	2,417.19	125.50
11 46 16 00-0053 LF Each Additional Foot Over 6 Foot Add.....	330.59	16.97
11 46 16 00-0054 Mobile Serving Stand Unit (11 46 16)		
11 46 16 00-0055 EA 36" Mobile Serving Stand Unit.....	2,117.91	120.03
11 46 16 00-0056 EA 96" Mobile Serving Stand Unit.....	3,469.80	179.92
11 46 16 00-0057 Reach-In Heated Cabinets (11 46 16)		
11 46 16 00-0058 EA Heated Cabinet, Reach-in, 1 Compartment.....	4,228.70	183.85
11 46 16 00-0059 EA Heated Cabinet, Reach-in, 2 Compartment.....	6,073.93	231.27
11 46 16 00-0060 EA Heated Cabinet, 1 Compartment, Pass-Through Roll-In.....	4,421.76	183.85
11 46 16 00-0061 EA Heated Cabinet, Pass-Through, Roll-In 2 Compartment.....	6,354.50	231.27
11 46 16 00-0062 Mobile Heated Cabinets (11 46 16)		
11 46 16 00-0063 EA Mobile, Heated Cabinet.....	4,646.13	49.31
11 46 19 Soda Fountain Equipment (11 46)		
11 46 19 00-0001 Carbonated Beverage Dispensing (11 46 19)		
11 46 19 00-0002 EA Carbonated Beverage Dispenser.....	3,142.36	448.09
11 46 19 00-0003 EA Carbonated Beverage Dispenser With 90 LB Ice.....	4,873.14	512.05
11 46 19 00-0004 EA Carbonated Beverage Dispenser With 150 LB Ice.....	8,833.26	716.85
11 46 19 00-0005 Beverage Chilling Systems (11 46 19)		
11 46 19 00-0006 EA Beverage Chiller, Small.....	7,712.12	432.21
11 46 19 00-0007 EA Beverage Chiller, Large.....	14,368.70	648.37
11 46 83 Ice Machines (11 46)		
11 46 83 00-0001 Undercounter Ice Machines With Bin (11 46 83)		
11 46 83 00-0002 EA 53 LB/Day, Air Cooled Undercounter Octagonal Cube Ice Machine With 25 LB Capacity Bin (Manitowoc SM-50A 115/60/1).....	1,921.55	19.73
11 46 83 00-0003 EA 85 LB/Day, Air Cooled Undercounter Pearl/Nugget Ice Machine With 22 LB Capacity Bin (Ice-O-Matic GEMU090).....	3,177.69	193.00
11 46 83 00-0004 EA 137 LB/Day, Air Cooled Undercounter Half Dice Cube Ice Machine With 90 LB Capacity Bin (Manitowoc UYF0140A).....	2,444.10	193.00
11 46 83 00-0005 EA 100 LB/Day, Undercounter, Air Cooled Ice Machine With 57 LB Capacity Bin (Scotsman CU0920MA).....	2,388.00	193.00
11 46 83 00-0006 EA 227 LB/Day, Undercounter, Air Cooled Ice Machine With 80 Lb Capacity Bin (Scotsman UC2024SA).....	2,571.77	206.79

11	11	Equipment
	11 40	Foodservice Equipment
	11 46	Food Dispensing Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 83 00-0007	EA		282 LB/Day, Undercounter, Air Cooled Ice Machine With 80 Lb Capacity Bin (Scotsman UC2724SA)	2,864.37	206.79
11 46 83 00-0008			Ice Cube Maker <small>(11 46 83)</small>		
11 46 83 00-0009	EA		320 LB/Day, Modular Ice Maker Without Bin	3,383.74	206.79
11 46 83 00-0010	EA		451 LB/Day, Modular Ice Maker Without Bin	3,675.51	220.57
11 46 83 00-0011	EA		600 LB/Day, Modular Ice Maker Without Bin	4,196.29	220.57
11 46 83 00-0012	EA		901 LB/Day, Modular Ice Maker Without Bin	5,969.83	234.36
11 46 83 00-0013	EA		1301 LB/Day, Modular Ice Maker Without Bin	6,762.64	234.36
11 46 83 00-0014	EA		1601 LB/Day, Modular Ice Maker Without Bin	8,139.96	248.14
11 46 83 00-0015	EA		1900 LB/Day, Modular Ice Maker Without Bin	8,982.50	248.14
11 46 83 00-0016			Ice Flakers <small>(11 46 83)</small>		
11 46 83 00-0017	EA		300 LB/Day, Ice Flakers	6,018.83	704.44
11 46 83 00-0018	EA		600 LB/Day, Ice Flakers	10,858.43	1,127.12
11 46 83 00-0019	EA		1,000 LB/Day, Ice Flakers	13,473.22	1,549.79
11 46 83 00-0020	EA		2,000 LB/Day, Ice Flakers	16,395.32	1,690.68
11 46 83 00-0021			Ice Storage Bins <small>(11 46 83)</small>		
11 46 83 00-0022	EA		260 LB Capacity, Stainless Steel Ice Storage Bin	1,325.80	118.37
11 46 83 00-0023	EA		360 LB Capacity, Stainless Steel Ice Storage Bin	1,453.09	118.37
11 46 83 00-0024	EA		550 LB Capacity, Stainless Steel Ice Storage Bin	1,812.27	128.23
11 46 83 00-0025	EA		660 LB Capacity, Stainless Steel Ice Storage Bin	1,953.71	128.23
11 46 83 00-0026	EA		1150 LB Capacity, Stainless Steel Ice Storage Bin	3,741.41	138.10
11 48			Foodservice Cleaning and Disposal Equipment <small>(11 40)</small>		
11 48 13			Commercial Dishwashers <small>(11 48)</small>		
11 48 13 00-0001			Sprays And Hoses <small>(11 48 13)</small>		
11 48 13 00-0002			Sprays, Fillers <small>(11 48 13 00-0001)</small>		
11 48 13 00-0003	EA		Pre-Rinse Spray	420.17	102.79
11 48 13 00-0004	EA		Kettle Fillers	377.27	102.79
11 48 13 00-0005			Hoses <small>(11 48 13 00-0001)</small>		
11 48 13 00-0006	EA		Hose Reel	504.21	123.40
11 48 13 00-0007	EA		Wash-Down Hose	418.40	123.40
11 48 13 00-0008	EA		Hose Reel And Spray System With Accessories (Chicago 535NF)	1,404.14	
11 48 13 00-0009			Rack Type Dishwasher <small>(11 48 13)</small>		
11 48 13 00-0010	EA		Dishwasher, 1 Tank And 190 Racks/Hour	10,390.57	281.68
11 48 13 00-0011	EA		Dishwasher, 2 Tanks And 234 Racks/Hour	17,973.91	739.43
11 48 13 00-0012	EA		Dishwasher, 2 Tanks And 265 Racks/Hour	21,571.14	845.06
11 48 13 00-0013	EA		Dishwasher, Automatic - 100 Meals/Hour	16,564.41	211.27
11 48 13 00-0014	EA		Dishwasher, Machine Rack	19,500.20	586.89
11 48 13 00-0015	EA		Dishwasher, Hobart LX30-H	5,236.55	246.48
11 48 13 00-0016			Exhaust Hood Dishwasher <small>(11 48 13)</small>		
11 48 13 00-0017	EA		4' x 4' x 2' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides	2,143.51	252.13
11 48 13 00-0018	EA		4' x 4' x 7' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides	3,592.51	302.56
11 48 13 00-0019			Dish Tables <small>(11 48 13)</small>		
11 48 13 00-0020	LF		Clean/Soiled Dish Table, Basic	270.18	54.08
11 48 13 00-0021	LF		Clean/Soiled Dish Table With Trough	422.20	81.05
11 48 13 00-0022	LF		Clean/Soiled Dish Table, Maximum	517.80	108.02
11 48 16			Foodservice Disposal Equipment <small>(11 48)</small>		
11 48 16 00-0001			Garbage Disposals <small>(11 48 16)</small>		
			Note: Manual switch.		
11 48 16 00-0002	EA		1/2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal	1,341.53	190.14
11 48 16 00-0003	EA		3/4 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal	1,655.63	197.18
11 48 16 00-0004	EA		1 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal	1,770.69	204.22
11 48 16 00-0005	EA		1.5 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal	2,269.70	211.27
11 48 16 00-0006	EA		2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal	2,464.66	232.39
11 48 16 00-0007	EA		3 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal	3,398.92	253.52
11 48 16 00-0008	EA		5 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal	4,030.86	281.68
11 48 16 00-0009	EA		7-1/2 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal	5,549.06	302.81
11 48 16 00-0010	EA		10 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal	7,254.36	316.89



Equipment	11	
Foodservice Equipment	11 40	11
Foodservice Cleaning and Disposal Equipment	11 48	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 48 16 00-0011			Pulper/Extractors ^(11 48 16)		
11 48 16 00-0012	EA		5 HP, Pulper/Extractor, Close-Coupled	4,891.30	293.38
11 50 Educational and Scientific Equipment ⁽¹¹⁾					
11 52 Audio-Visual Equipment ^(11 52)					
11 52 13 Projection Screens ^(11 52)					
11 52 13 13 Fixed Projection Screens ^(11 52 13)					
11 52 13 13-0001 Screens ^(11 52 13 13)					
11 52 13 13-0002 Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model B) ^(11 52 13 13-0001)					
11 52 13 13-0003	EA		40" x 40" Pull Down Projection Screen (Da-Lite B).....	342.37	81.99
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0004	EA		50" x 50" Pull Down Projection Screen (Da-Lite B).....	409.22	105.41
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0005	EA		60" x 60" Pull Down Projection Screen (Da-Lite B).....	522.91	146.40
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0006	EA		70" x 70" Pull Down Projection Screen (Da-Lite B).....	607.32	175.68
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0007	EA		84" x 84" Pull Down Projection Screen (Da-Lite B).....	938.13	263.53
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0008	EA		96" x 96" Pull Down Projection Screen (Da-Lite B).....	1,100.10	292.81
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0009	EA		64" x 84" Pull Down Projection Screen (Da-Lite B).....	785.87	187.40
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0010	EA		72" x 96" Pull Down Projection Screen (Da-Lite B).....	905.43	234.25
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0011	EA		43" x 57" Pull Down Projection Screen (Da-Lite B).....	480.92	99.55
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0012	EA		50" x 67" Pull Down Projection Screen (Da-Lite B).....	666.32	140.54
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0013	EA		55" x 77" Pull Down Projection Screen (Da-Lite B).....	727.32	158.12
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0014	EA		60" x 80" Pull Down Projection Screen (Da-Lite B).....	776.59	169.82
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0015	EA		69" x 92" Pull Down Projection Screen (Da-Lite B).....	898.57	204.97
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0016	EA		45" x 80" Pull Down Projection Screen (Da-Lite B).....	729.74	146.40
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0017	EA		52" x 92" Pull Down Projection Screen (Da-Lite B).....	828.30	169.82
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	
11 52 13 13-0018 Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C) ^(11 52 13 13-0001)					
11 52 13 13-0019	EA		50" x 50" Pull Down Projection Screen (Da-Lite C).....	771.17	105.41
			For High Contrast Matte, Add	40.00	
			For Video Spectra Fabric, Add	40.00	
			For High Power Fabric, Add	120.00	

11 Equipment
11 50 Educational and Scientific Equipment
11 52 Audio-Visual Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0020	EA		60" x 60" Pull Down Projection Screen (Da-Lite C).....	910.72	146.40
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0021	EA		70" x 70" Pull Down Projection Screen (Da-Lite C).....	1,067.83	199.11
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0022	EA		84" x 84" Pull Down Projection Screen (Da-Lite C).....	1,248.38	263.53
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0023	EA		6' x 8' Pull Down Projection Screen (Da-Lite C).....	1,363.51	269.38
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0024	EA		8' x 8' Pull Down Projection Screen (Da-Lite C).....	1,462.06	292.81
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0025	EA		7' x 9' Pull Down Projection Screen (Da-Lite C).....	1,487.91	292.81
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0026	EA		9' x 9' Pull Down Projection Screen (Da-Lite C).....	1,600.62	310.38
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0027	EA		8' x 10' Pull Down Projection Screen (Da-Lite C).....	1,713.32	327.94
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0028	EA		10' x 10' Pull Down Projection Screen (Da-Lite C).....	1,837.72	351.37
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0029	EA		9' x 12' Pull Down Projection Screen (Da-Lite C).....	2,044.55	351.37
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0030	EA		12' x 12' Pull Down Projection Screen (Da-Lite C).....	2,382.22	468.50
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0031			Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C With CSR) <small>(11 52 13 13-0001)</small>		
			Note: With controlled screen return.		
11 52 13 13-0032	EA		60" x 60" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,427.80	146.40
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0033	EA		70" x 70" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,610.76	199.11
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0034	EA		84" x 84" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,791.31	263.53
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0035	EA		6' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	1,880.59	269.38
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0036	EA		8' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,004.99	292.81
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0037	EA		7' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,030.85	292.81
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0038	EA		9' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,143.55	310.38
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0039	EA		8' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,192.83	322.08
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	
11 52 13 13-0040	EA		10' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,458.22	351.37
			<i>For High Contrast Matte, Add</i>	40.00	
			<i>For Video Spectra Fabric, Add</i>	40.00	
			<i>For High Power Fabric, Add</i>	120.00	



Equipment	11
Educational and Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0041 EA 9' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	2,690.90	351.37
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0042 EA 12' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR).....	3,080.28	468.50
For High Contrast Matte, Add	40.00	
For Video Spectra Fabric, Add	40.00	
For High Power Fabric, Add	120.00	
11 52 13 13-0043 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Cosmopolitan Electrol) ^(11 52 13 13-0001)		
Note: Heavy-duty screen for exposed installation.		
11 52 13 13-0044 EA 50" x 50" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,063.39	131.76
11 52 13 13-0045 EA 60" x 60" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,114.14	146.40
11 52 13 13-0046 EA 70" x 70" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,213.51	175.68
11 52 13 13-0047 EA 84" x 84" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,573.90	263.53
11 52 13 13-0048 EA 6' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,637.17	269.38
11 52 13 13-0049 EA 8' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,802.14	292.81
11 52 13 13-0050 EA 7' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,855.83	292.81
11 52 13 13-0051 EA 9' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	2,999.92	313.31
11 52 13 13-0052 EA 8' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	3,173.11	327.94
11 52 13 13-0053 EA 10' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	3,290.83	351.37
11 52 13 13-0054 EA 9' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	3,387.48	351.37
11 52 13 13-0055 EA 12' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol)	3,789.26	468.50
11 52 13 13-0056 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Professional Electrol) ^(11 52 13 13-0001)		
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0057 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	5,095.32	351.37
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0058 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	5,536.41	468.50
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0059 EA 14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	6,842.82	527.05
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0060 EA 12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	7,218.48	585.61
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0061 EA 16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	7,711.27	702.73
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0062 EA 13.5' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	8,604.00	761.30
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0063 EA 18' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	9,419.19	819.86
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0064 EA 15' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	9,936.27	819.86
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0065 EA 20' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	10,713.45	936.98
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0066 EA 11' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	9,896.70	761.30
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0067 EA 16.5' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	10,506.62	936.98
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0068 EA 22' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	10,999.40	1,054.11
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0069 EA 12' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	10,530.91	819.86
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0070 EA 18' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)	13,584.80	1,054.11
Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0071 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Executive Electrol) ^(11 52 13 13-0001)		
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0072 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	4,656.12	131.76
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0073 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	4,762.97	146.40
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0074 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	4,873.23	175.68
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0075 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,229.89	263.53
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0076 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,293.32	269.38
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0077 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,495.28	292.81
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0078 EA 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,650.41	292.81
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0079 EA 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,768.96	313.31
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0080 EA 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)	5,927.52	327.94
Note: In-the-ceiling screen with automatically operated door to conceal screen.		

11 Equipment
11 50 Educational and Scientific Equipment
11 52 Audio-Visual Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0081	EA		10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	6,077.78	351.37
11 52 13 13-0082	EA		9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	6,129.48	351.37
11 52 13 13-0083	EA		12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	6,622.27	468.50
11 52 13 13-0084	EA		10.6' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	7,094.51	497.77
11 52 13 13-0085	EA		14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	7,411.61	527.05
11 52 13 13-0086	EA		12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	8,097.52	585.61
11 52 13 13-0087	EA		16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	8,461.04	702.73
11 52 13 13-0088 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Senior Electrol) ^(11 52 13 13-0001)					
Note: In-the-ceiling screen with automatically operated door to conceal screen.					
11 52 13 13-0089	EA		50" x 50" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,870.16	131.76
11 52 13 13-0090	EA		60" x 60" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	3,964.91	161.05
11 52 13 13-0091	EA		70" x 70" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,017.47	175.68
11 52 13 13-0092	EA		84" x 84" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,268.12	263.53
11 52 13 13-0093	EA		6' x 8' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,303.11	269.38
11 52 13 13-0094	EA		8' x 8' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,448.20	292.81
11 52 13 13-0095	EA		7' x 9' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,585.22	292.81
11 52 13 13-0096	EA		9' x 9' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,809.78	313.31
11 52 13 13-0097	EA		8' x 10' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,875.26	327.94
11 52 13 13-0098	EA		10' x 10' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	5,033.27	351.37
11 52 13 13-0099	EA		9' x 12' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	5,046.99	409.93
11 52 13 13-0100	EA		12' x 12' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	5,526.06	468.50
11 52 13 13-0101	EA		10'-6" x 14' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	6,872.16	497.77
11 52 13 13-0102	EA		14' x 14' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	7,176.34	527.05
11 52 13 13-0103	EA		12' x 16' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	7,771.76	585.61
11 52 13 13-0104	EA		16' x 16' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	8,114.59	702.73
11 52 13 13-0105	EA		13'-6" x 18' Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	8,839.27	761.30
11 52 13 13-0106	EA		18' x 18' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	9,388.16	819.86
11 52 13 13-0107	EA		15' x 20' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	9,765.63	819.86
11 52 13 13-0108	EA		20' x 20' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	10,806.53	936.98
11 52 13 13-0109	EA		50" x 67" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,017.47	175.68
11 52 13 13-0110	EA		60" x 80" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,209.57	234.25
11 52 13 13-0111	EA		69" x 92" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,291.39	263.53
11 52 13 13-0112	EA		87" x 116" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,901.12	327.94
11 52 13 13-0113	EA		105" x 140" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	5,261.58	409.93
11 52 13 13-0114	EA		123" x 164" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	6,527.40	527.05
11 52 13 13-0115	EA		141" x 188" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	6,958.14	644.18
11 52 13 13-0116	EA		12' x 24' Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	12,168.25	878.43
11 52 13 13-0117	EA		45" x 80" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,222.50	234.25
11 52 13 13-0118	EA		52" x 92" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,330.17	263.53
11 52 13 13-0119	EA		54" x 96" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,440.29	281.10
11 52 13 13-0120	EA		58" x 104" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,510.41	304.52



Equipment	11
Educational and Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0121 EA 65" x 116" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	4,777.02	327.94
11 52 13 13-0122 EA 78" x 139" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	5,163.33	409.93
11 52 13 13-0123 EA 92" x 164" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	6,457.60	527.05
11 52 13 13-0124 EA 106" x 188" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	7,472.64	644.18
11 52 13 13-0125 EA 119" x 212" Electric Projection Screen (Da-Lite Senior Electrol) Note: Heavy duty screen for recessed or exposed installation.	9,064.20	761.30
11 52 13 13-0126 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Boardroom Electrol) <small>(11 52 13 13-0001)</small> Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0127 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)	4,007.15	131.76
11 52 13 13-0128 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,087.97	146.40
11 52 13 13-0129 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,185.19	175.68
11 52 13 13-0130 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,494.04	263.53
11 52 13 13-0131 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,548.71	269.38
11 52 13 13-0132 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,687.91	292.81
11 52 13 13-0133 EA 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,831.81	292.81
11 52 13 13-0134 EA 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,965.16	313.31
11 52 13 13-0135 EA 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	5,063.18	327.94
11 52 13 13-0136 EA 10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	5,219.55	351.37
11 52 13 13-0137 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	5,367.75	351.37
11 52 13 13-0138 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol) Note: In-the-ceiling screen with automatically operated door to conceal screen.	5,726.57	468.50
11 52 13 13-0139 Electric Ascending Project Screen, Matte White, Glass Beaded (Da-Lite Ascender Electrol) <small>(11 52 13 13-0001)</small> Note: High contrast matte white, video spectrum or high power. Includes a motorized spring assisted scissors mechanism which raises the screen surface from the housing ensuring smooth operation. A trap door housing keeps the screen and lift mechanism hidden until the screen is activated.		
11 52 13 13-0140 EA 60" x 80" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	11,907.08	292.81
11 52 13 13-0141 EA 69" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	12,748.11	351.37
11 52 13 13-0142 EA 87" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	14,857.56	527.05
11 52 13 13-0143 EA 105" x 140" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	18,725.07	702.73
11 52 13 13-0144 EA 120" x 160" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	20,769.09	819.86
11 52 13 13-0145 EA 52" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	12,630.99	292.81
11 52 13 13-0146 EA 58" x 104" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	13,808.12	351.37
11 52 13 13-0147 EA 65" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	14,623.31	409.93
11 52 13 13-0148 EA 78" x 139" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	18,373.70	527.05
11 52 13 13-0149 Electric Rear Projection Screen (Da-Lite DA-View) <small>(11 52 13 13-0001)</small> Note: Consists of a single acrylic layer with rear Fensel lens and lenticulated front profile. Un-framed.		
11 52 13 13-0150 EA 60" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	3,873.28	292.81
11 52 13 13-0151 EA 67" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	4,845.60	322.08
11 52 13 13-0152 EA 72" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	5,543.78	351.37
11 52 13 13-0153 EA 84" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	9,896.97	380.65
11 52 13 13-0154 EA 90" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	10,960.66	10,550.73
11 52 13 13-0155 EA 96" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	12,174.28	468.50
11 52 13 13-0156 EA 100" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)	15,580.91	527.05

11	11 Equipment
	11 50 Educational and Scientific Equipment
	11 52 Audio-Visual Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0157 EA 120" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	20,997.78	585.61
11 52 13 13-0158 EA 125" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	23,490.66	644.18
11 52 13 13-0159 EA 135" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	31,374.65	702.73
11 52 13 13-0160 Screen Accessories <small>(11 52 13 13-0001)</small>		
11 52 13 13-0161 Manual Pull Down Accessories <small>(11 52 13 13-0160)</small>		
11 52 13 13-0162 EA 6" Mounting Bracket (Pair).....	64.11	8.79
11 52 13 13-0163 EA 14" Wall Mounting Bracket (Pair)	89.96	9.37
11 52 13 13-0164 EA 14-1/2" To 24" Adjustable Wall Mounting Bracket (Pair).....	105.47	10.54
11 52 13 13-0165 Electric Powered Screen Accessories <small>(11 52 13 13-0160)</small>		
11 52 13 13-0166 EA Single Motor Low Voltage Remote Control System - Infrared.....	647.18	
11 52 13 13-0167 EA Single Motor Low Voltage Remote Control System - Radio Frequency.....	931.57	
11 52 13 13-0168 Relocate Existing Fixed Projection Screen <small>(11 52 13 13)</small>		
11 52 13 13-0169 EA Relocate Electric Controlled Projection Screen, Including Storage And Cleaning	1,722.40	
11 52 13 16 Portable Projection Screens <small>(11 52 13)</small>		
11 52 13 16-0001 Motion Picture Screen And Case <small>(11 52 13 16)</small>		
11 52 13 16-0002 SF Screen, Riser Projection With Anodized Aluminum Frame	42.23	4.22
11 52 16 Projectors <small>(11 52)</small>		
11 52 16 26 Video Projectors <small>(11 52 16)</small>		
11 52 16 26-0001 Projectors <small>(11 52 16 26)</small>		
11 52 16 26-0002 EA 2,000 Lumens Output, 800 x 600 Pixels, SVGA Compact 3LCD Panels Projector.....	1,112.30	58.56
11 52 16 26-0003 EA 2,000 Lumens Output, 1024 x 768 Pixels, XGA Compact 3LCD Panels Projector	1,286.45	58.56
11 52 16 26-0004 EA 2,000 Lumens Output, 1280 x 800 Pixels, WXGA Compact 3LCD Panels Projector.....	1,696.96	58.56
11 52 16 26-0005 EA 3,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	2,667.26	58.56
11 52 16 26-0006 EA 3,500 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	3,102.65	58.56
11 52 16 26-0007 EA 3,000 Lumens Output, 1366 x 800 Pixels, WXGA 3LCD Panels Projector	3,936.11	58.56
11 52 16 26-0008 EA 4,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	6,249.89	58.56
11 52 16 26-0009 EA 5,200 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	8,464.16	58.56
11 52 16 26-0010 EA 6,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	12,556.82	58.56
11 52 16 26-0011 Projector Mounts <small>(11 52 16 26)</small>		
11 52 16 26-0012 Universal Projector Mounts <small>(11 52 16 26-0011)</small>		
Note: Includes ceiling or wall mounting hardware and hardware for attaching projector. Excludes projector.		
11 52 16 26-0013 EA Flush Ceiling, Universal Projector Mount (Peerless PPF).....	257.78	64.39
11 52 16 26-0014 EA Wall Arm, Universal Projector Mount (Peerless PWA-14).....	412.21	64.39
11 52 16 26-0015 Projector Mount Components <small>(11 52 16 26-0011)</small>		
Note: Includes ceiling attachment plate, threaded extension column and projector attachment plate. Excludes projector.		
11 52 16 26-0016 Ceiling Attachment Plates For Projector Mounts <small>(11 52 16 26-0015)</small>		
11 52 16 26-0017 EA Finished Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 570).....	95.27	29.27
11 52 16 26-0018 EA Truss Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 557).....	126.96	29.27
11 52 16 26-0019 EA I-Beam Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 558/559).....	173.87	29.27
11 52 16 26-0020 EA Suspended Ceiling, Attachment Plate For Projector Mounts (Peerless CMJ 455).....	216.84	29.27
11 52 16 26-0021 Projector Attachment Plates For Projector Mounts <small>(11 52 16 26-0015)</small>		
11 52 16 26-0022 EA Universal Projector Attachment Plate For Projector Mounts (Peerless PRG-UNV)	312.65	29.27
11 52 16 26-0023 EA High Security Projector Enclosure For Projector Mounts (Peerless ALB).....	682.12	29.27
11 52 16 26-0024 Threaded Extension Columns For Projector Mounts <small>(11 52 16 26-0015)</small>		
11 52 16 26-0025 Fixed Length, Threaded Extension Column For Projector Mounts <small>(11 52 16 26-0024)</small>		
Note: Peerless EXT series.		
11 52 16 26-0026 EA 6" Fixed Length, Threaded Extension Column For Projector Mounts	54.70	8.78
11 52 16 26-0027 EA 12" Fixed Length, Threaded Extension Column For Projector Mounts	70.34	8.78
11 52 16 26-0028 EA 18" Fixed Length, Threaded Extension Column For Projector Mounts	76.20	8.78
11 52 16 26-0029 EA 24" Fixed Length, Threaded Extension Column For Projector Mounts	80.11	8.78
11 52 16 26-0030 EA 36" Fixed Length, Threaded Extension Column For Projector Mounts	95.74	11.71
11 52 16 26-0031 EA 48" Fixed Length, Threaded Extension Column For Projector Mounts	115.29	11.71
11 52 16 26-0032 EA 60" Fixed Length, Threaded Extension Column For Projector Mounts	146.56	11.71



Equipment	11	
Educational and Scientific Equipment	11 50	11
Audio-Visual Equipment	11 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 16 26-0033 EA 72" Fixed Length, Threaded Extension Column For Projector Mounts	168.07	11.71
11 52 16 26-0034 EA 84" Fixed Length, Threaded Extension Column For Projector Mounts	197.38	14.63
11 52 16 26-0035 EA 96" Fixed Length, Threaded Extension Column For Projector Mounts	224.75	14.63
11 52 16 26-0036 EA 108" Fixed Length, Threaded Extension Column For Projector Mounts	250.16	17.56
11 52 16 26-0037 EA 120" Fixed Length, Threaded Extension Column For Projector Mounts	261.89	17.56
11 52 16 26-0038 Adjustable Length, Threaded Extension Columns For Projector Mounts <small>(11 52 16 26-0024)</small>		
<i>Note: Peerless ADJ series. Adjustable at 1" increments.</i>		
11 52 16 26-0039 EA 6" To 9" Adjustable Length, Threaded Extension Column For Projector Mounts.....	111.37	14.63
11 52 16 26-0040 EA 12" To 18" Adjustable Length, Threaded Extension Column For Projector Mounts.....	170.02	14.63
11 52 16 26-0041 EA 18" To 24" Adjustable Length, Threaded Extension Column For Projector Mounts.....	173.93	14.63
11 52 16 26-0042 EA 24" To 36" Adjustable Length, Threaded Extension Column For Projector Mounts.....	179.79	14.63
11 52 16 26-0043 EA 36" To 60" Adjustable Length, Threaded Extension Column For Projector Mounts.....	195.42	17.56
11 52 16 26-0044 EA 48" To 72" Adjustable Length, Threaded Extension Column For Projector Mounts.....	205.20	17.56
11 52 16 26-0045 EA 60" To 84" Adjustable Length, Threaded Extension Column For Projector Mounts.....	226.70	17.56
11 52 16 26-0046 EA 72" To 96" Adjustable Length, Threaded Extension Column For Projector Mounts.....	246.25	17.56
11 52 16 26-0047 EA 84" To 108" Adjustable Length, Threaded Extension Column For Projector Mounts.....	273.59	20.49
11 52 16 26-0048 EA 96" To 120" Adjustable Length, Threaded Extension Column For Projector Mounts.....	293.14	20.49
11 52 16 26-0049 EA 108" To 132" Adjustable Length, Threaded Extension Column For Projector Mounts.....	320.50	23.41
11 52 16 26-0050 EA 120" To 144" Adjustable Length, Threaded Extension Column For Projector Mounts.....	334.19	23.41
11 53 Laboratory Equipment <small>(11 50)</small>		
11 53 43 Service Fittings and Accessories <small>(11 53)</small>		
11 53 43 00-0001 Outlet And Valves <small>(11 53 43)</small>		
11 53 43 00-0002 EA Medical Outlet Conversion Kit (Air, Oxygen, And Vacuum)	977.57	
11 53 43 00-0003 Test And Certify <small>(11 53 43)</small>		
11 53 43 00-0004 EA Test And Certify Medical Gas Port.....	70.45	
11 70 Healthcare Equipment <small>(11)</small>		
11 73 Patient Care Equipment <small>(11 70)</small>		
11 73 23 Patient Lift <small>(11 73)</small>		
11 73 23 00-0001 Ceiling Patient Lift <small>(11 73 23)</small>		
11 73 23 00-0002 EA Maxi Sky 600 Fixed 4 Function Ceiling Patient Lift.....	11,097.98	
<i>Note: Maxi Sky 600 cassette with 600 pound weight capacity. Includes 2 point hanger bar, hardware (x-3 meter x 4.5 meter 8 anchors xy 4.5), powered raise and lower as well as powered traverse on track. Maxi sky supports clinically activated return to charge, programmable automatic return.</i>		
11 80 Facility Maintenance and Operation Equipment <small>(11)</small>		
11 81 Maintenance Equipment <small>(11 80)</small>		
11 81 29 Facility Fall Protection <small>(11 81)</small>		
11 81 29 00-0001 Safety And Tie-Back Anchors <small>(11 81 29)</small>		
<i>Note: One cut sheet charge required per manufacturer order. Excludes flashing and testing by engineer after installation. See CSI section 01 22 20 00-0050 for engineering testing and inspection.</i>		
11 81 29 00-0002 Roof Mounted, Safety And Tie-Back Anchors <small>(11 81 29 00-0001)</small>		
<i>Note: Includes up to 10" high, 0.216" thick hollow structural section tube, 1018 steel forged pad eye, 8" x 8" x 1/2" base plate and hot-dipped galvanized finish.</i>		
11 81 29 00-0003 EA Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	680.34	87.85
<i>Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.</i>		
<i>For Stainless Steel Pad Eye, Add</i>	40.00	
<i>For Foam Insulation Filled HSS Tube, Add</i>	10.00	
11 81 29 00-0004 EA Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor)	588.59	87.85
<i>Note: Includes drilling in concrete and adhesive anchor systems.</i>		
<i>For Stainless Steel Pad Eye, Add</i>	40.00	
<i>For Foam Insulation Filled HSS Tube, Add</i>	10.00	
11 81 29 00-0005 EA Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor)	420.09	78.10
<i>For Stainless Steel Pad Eye, Add</i>	40.00	
<i>For Foam Insulation Filled HSS Tube, Add</i>	10.00	
11 81 29 00-0006 Wall Mounted, Safety And Tie-Back Anchor <small>(11 81 29 00-0001)</small>		
<i>Note: Includes 1018 steel forged pad eye, 10" x 4" x 1/2" base plate and hot-dipped galvanized finish.</i>		

11	11 Equipment
	11 80 Facility Maintenance and Operation Equipment
	11 81 Maintenance Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 81	29 00-0007	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.	481.80	87.85
			<i>For Stainless Steel Pad Eye, Add</i>	40.00	
11 81	29 00-0008	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor) Note: Includes drilling in concrete and adhesive anchor systems.	436.97	87.85
			<i>For Stainless Steel Pad Eye, Add</i>	40.00	
11 81	29 00-0009	EA	Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor) <i>For Stainless Steel Pad Eye, Add</i>	371.22 40.00	78.10
11 81	29 00-0010		Safety And Tie-Back Anchor Accessories <small>(11 81 29 00-0001)</small>		
11 81	29 00-0011	EA	Mandatory Cut Sheets For Safety And Tie-Back Anchors (Summit Anchor) Note: One cut sheet required per order.	355.42	

11 82 Facility Solid Waste Handling Equipment (11 82)

11 82 19 Packaged Incinerators (11 82)

11 82	19 00-0001		Electric Incinerator <small>(11 82 19)</small>		
11 82	19 00-0002	EA	Electric Package Incinerator, 100 LB/Hour	27,531.12	956.41
11 82	19 00-0003	EA	Electric Package Incinerator, 400 LB/Hour	56,311.74	1,912.84
11 82	19 00-0004	EA	Electric Package Incinerator, 1,000 LB/Hour	188,723.75	2,869.25

11 82 26 Facility Waste Compactors (11 82)

11 82	26 00-0001		Waste Compactors <small>(11 82 26)</small>		
11 82	26 00-0002		110 Volt Compactors <small>(11 82 26 00-0001)</small>		
11 82	26 00-0003	EA	Waste Compactor, 110 Volt At 75 LB/Hour	15,052.62	524.38
11 82	26 00-0004	EA	Waste Compactor, 110 Volt At 250 LB/Hour	19,163.70	1,258.51
11 82	26 00-0005		230 Volt Compactors <small>(11 82 26 00-0001)</small>		
11 82	26 00-0006	EA	Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed	19,345.08	1,678.02
11 82	26 00-0007	EA	Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed	21,977.64	2,202.40
11 82	26 00-0008		Trash Compactors <small>(11 82 26)</small>		
11 82	26 00-0009	EA	Trash Compactor, Small	3,811.95	333.39
11 82	26 00-0010	EA	Trash Compactor, Large	4,691.27	377.28

11 90 Other Equipment (11)

11 98 Detention Equipment (11 90)

11 98 12 Detention Doors and Frames (11 98)

11 98	12 00-0001		Metal Frames <small>(11 98 12)</small> Note: Combination buck, jamb, and trim, fully seam welded.		
11 98	12 00-0002		Metal Frames 4-3/4" Depth x 7 Gauge x 1-3/4" <small>(11 98 12 00-0001)</small>		
11 98	12 00-0003	EA	2' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	516.07	182.95
11 98	12 00-0004	EA	2'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	516.07	182.95
11 98	12 00-0005	EA	2'-6" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	516.07	182.95
11 98	12 00-0006	EA	2'-8" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	516.07	182.95
11 98	12 00-0007	EA	3' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	519.01	182.95
11 98	12 00-0008	EA	3'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	519.01	182.95
11 98	12 00-0009	EA	6' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	768.04	292.81
11 98	12 00-0010	EA	2' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0011	EA	2'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0012	EA	2'-6" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0013	EA	2'-8" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.73	182.95
11 98	12 00-0014	EA	3' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	655.73	243.97
11 98	12 00-0015	EA	3'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	655.73	243.97
11 98	12 00-0016	EA	6' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	785.69	292.81
11 98	12 00-0017	EA	2' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0018	EA	2'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0019	EA	2'-6" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0020	EA	2'-8" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.90	182.95
11 98	12 00-0021	EA	3' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	527.84	182.95
11 98	12 00-0022	EA	3'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	527.84	182.95
11 98	12 00-0023	EA	6' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	776.86	292.81
11 98	12 00-0024		Metal Frames 6-3/4" Depth x 7 Gauge x 1-3/4" <small>(11 98 12 00-0001)</small>		
11 98	12 00-0025	EA	2' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95



Equipment	11	11
Other Equipment	11 90	
Detention Equipment	11 98	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 98 12 00-0026 EA 2'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95
11 98 12 00-0027 EA 2'-6" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95
11 98 12 00-0028 EA 2'-8" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95
11 98 12 00-0029 EA 3' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	530.78	182.95
11 98 12 00-0030 EA 3'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	530.78	182.95
11 98 12 00-0031 EA 6' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	776.86	292.81
11 98 12 00-0032 EA 2' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95
11 98 12 00-0033 EA 2'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	524.89	182.95
11 98 12 00-0034 EA 2'-6" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0035 EA 2'-8" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0036 EA 3' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	655.72	243.97
11 98 12 00-0037 EA 3'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	655.72	243.97
11 98 12 00-0038 EA 6' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	913.94	325.13
11 98 12 00-0039 EA 2' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0040 EA 2'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0041 EA 2'-6" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0042 EA 2'-8" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	533.72	182.95
11 98 12 00-0043 EA 3' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	536.66	182.95
11 98 12 00-0044 EA 3'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	536.66	182.95
11 98 12 00-0045 EA 6' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	785.68	292.81
11 98 12 00-0046 Metal Detention Doors <small>(11 98 12)</small>		
Note: Flush type reinforced with stiffeners.		
11 98 12 00-0047 10 Gauge 1-3/4" Metal Detention Door <small>(11 98 12 00-0046)</small>		
11 98 12 00-0048 EA 2' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	818.83	65.01
11 98 12 00-0049 EA 2'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	828.68	65.01
11 98 12 00-0050 EA 2'-6" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	838.51	65.01
11 98 12 00-0051 EA 2'-8" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	848.35	65.01
11 98 12 00-0052 EA 3' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	858.19	65.01
11 98 12 00-0053 EA 3'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	907.39	65.01
11 98 12 00-0054 EA 2' x 7' x 1-3/4" 10 Gauge Metal Detention Door	880.03	65.01
11 98 12 00-0055 EA 2'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door	890.26	65.01
11 98 12 00-0056 EA 2'-6" x 7' x 1-3/4" 10 Gauge Metal Detention Door	896.69	65.01
11 98 12 00-0057 EA 2'-8" x 7' x 1-3/4" 10 Gauge Metal Detention Door	986.29	65.01
11 98 12 00-0058 EA 3' x 7' x 1-3/4" 10 Gauge Metal Detention Door	1,202.55	65.01
11 98 12 00-0059 EA 3'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door	1,313.78	65.01
11 98 12 00-0060 EA 2' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	853.27	65.01
11 98 12 00-0061 EA 2'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	863.10	65.01
11 98 12 00-0062 EA 2'-6" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	872.95	65.01
11 98 12 00-0063 EA 2'-8" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	882.79	65.01
11 98 12 00-0064 EA 3' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	892.62	65.01
11 98 12 00-0065 EA 3'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	941.82	65.01
11 98 12 00-0066 Pneumatic Door Operators <small>(11 98 12)</small>		
11 98 12 00-0067 EA Pneumatic Detention Cell Entry Door Operator With Hardware Set	5,794.15	
11 98 12 00-0068 EA Pneumatic Special Housing Detention Cell Door Operator With Hardware Set	6,479.78	
11 98 12 00-0069 EA Pneumatic MS Detention Cell Door Operator With Hardware Set	8,552.55	
11 98 12 00-0070 EA Pneumatic Sally Port Detention Door Operator With Hardware Set	9,993.91	
11 98 12 00-0071 EA Pneumatic Corridor Detention Door Operator With Hardware Set	12,870.41	
11 98 12 00-0072 EA Emergency Release Cabinet With Seven Gallon Storage Tank, Check Valve, Pressure Gauge, Three Way Valves And Four Release Valves	6,184.87	
11 98 12 00-0073 Security Doors And Frame Assembly <small>(11 98 12)</small>		
11 98 12 00-0074 EA 2'-6" x 6'-8", 7 Gauge Flat Door With 7 Gauge Reinforcement Plate, Security Detention Doors And Frames	13,471.88	431.55
Note: Complete, with hardware, single plate.		
<i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i> 105.00		
11 98 12 00-0075 EA 2'-6" x 6'-8", 7 Gauge Flat Door With Double 7 Gauge Reinforcement Plate, Security Detention Doors And Frames	16,433.11	428.76
Note: Complete, with hardware, double plate.		
<i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i> 105.00		

END OF SECTION 11

11	11	Equipment
	11 90	Other Equipment
	11 98	Detention Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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Special Construction	13
Special Purpose Rooms	13 20
Controlled Environment Rooms	13 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 20 Special Purpose Rooms ⁽¹³⁾

13 21 Controlled Environment Rooms ^(13 20)

13 21 26 Cold Storage Rooms ^(13 21)

13 21 26 13 Walk-in Coolers ^(13 21 26)

See CSI section 11 41 23 00-0000 for walk-in coolers.

13 30 Special Structures ⁽¹³⁾

13 34 Fabricated Engineered Structures ^(13 30)

13 34 19 Metal Building Systems ^(13 34)

Note: Includes material, delivery to site, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site.

13 34 19 00-0001 Pre-Engineered Metal Buildings ^(13 34 19)

Note: Free standing base buildings have a live load of 12 PSF and a wind load of 16.4 PSF (80 MPH). Includes anchoring and fasteners to concrete foundation. Includes design for foundation footings and piers. Includes a prime coated structural frame, painted steel wall panels 26 gauge, standing seam roof panels 26 gauge, roof 1 in 12 slope. Includes material, delivery to site, lifting equipment (crane) for erection, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site. Eave height is measured from the top of slab to the underside of the roof deck. Excludes foundations and slab. See CSI section 13 34 19 00-0109 for metal building options.

13 34 19 00-0002 Clear Span Rigid Frame Pre-Engineered Metal Buildings ^(13 34 19 00-0001)

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0003 20' To 30' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings ^(13 34 19 00-0002)

13 34 19 00-0004	GSF 10' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	30.62	7.22
	For 30' To 49' In Length Only, Add	3.42	
	For 50' To 69' In Length Only, Add	1.87	
	For 70' To 99' In Length Only, Add	0.77	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.92	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.53	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.30	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.99	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.67	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.82	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.35	
	For Single Slope Frame Roof, Add	2.14	
	For Each SF Of 24 Gauge Wall Panel, Add	0.91	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.00	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0005	GSF 12' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	32.65	7.93
	For 30' To 49' In Length Only, Add	3.52	
	For 50' To 69' In Length Only, Add	1.92	
	For 70' To 99' In Length Only, Add	0.79	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.98	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.63	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.45	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.18	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.92	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.20	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.84	
	For Single Slope Frame Roof, Add	2.20	
	For Each SF Of 24 Gauge Wall Panel, Add	0.96	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.09	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0006	GSF 14' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	34.92	8.75
	For 30' To 49' In Length Only, Add	3.62	
	For 50' To 69' In Length Only, Add	1.97	
	For 70' To 99' In Length Only, Add	0.81	
	For >1 In 12 Slope To 3 In 12 Slope, Add	1.05	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.75	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.62	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.40	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.19	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.63	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.38	
	For Single Slope Frame Roof, Add	2.26	
	For Each SF Of 24 Gauge Wall Panel, Add	1.02	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.19	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34	19 00-0007	GSF	16' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	37.50	9.57
			For 30' To 49' In Length Only, Add	3.79	
			For 50' To 69' In Length Only, Add	2.07	
			For 70' To 99' In Length Only, Add	0.85	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.13	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.88	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.81	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.66	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.50	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.13	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	9.00	
			For Single Slope Frame Roof, Add	2.37	
			For Each SF Of 24 Gauge Wall Panel, Add	1.10	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.29	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0008	GSF	18' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	40.17	10.39
			For 30' To 49' In Length Only, Add	3.98	
			For 50' To 69' In Length Only, Add	2.17	
			For 70' To 99' In Length Only, Add	0.90	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.21	
			For >3 In 12 Slope To 5 In 12 Slope, Add	2.01	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	3.01	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.92	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.82	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.63	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	9.64	
			For Single Slope Frame Roof, Add	2.49	
			For Each SF Of 24 Gauge Wall Panel, Add	1.17	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.40	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0009	GSF	20' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	44.45	11.16
			For 30' To 49' In Length Only, Add	4.59	
			For 50' To 69' In Length Only, Add	2.51	
			For 70' To 99' In Length Only, Add	1.03	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.33	
			For >3 In 12 Slope To 5 In 12 Slope, Add	2.22	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	3.33	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	4.33	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.33	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	8.45	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	10.67	
			For Single Slope Frame Roof, Add	2.87	
			For Each SF Of 24 Gauge Wall Panel, Add	1.30	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.49	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0010	GSF	24' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	49.72	12.80
			For 30' To 49' In Length Only, Add	4.99	
			For 50' To 69' In Length Only, Add	2.72	
			For 70' To 99' In Length Only, Add	1.12	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.49	
			For >3 In 12 Slope To 5 In 12 Slope, Add	2.49	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	3.73	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	4.85	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.97	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	9.45	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	11.93	
			For Single Slope Frame Roof, Add	3.12	
			For Each SF Of 24 Gauge Wall Panel, Add	1.45	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.69	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0011 >30' To 50' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings

(13 34 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0012 GSF 10' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	26.32	5.74
For 30' To 49' In Length Only, Add	3.19	
For 50' To 69' In Length Only, Add	1.74	
For 70' To 99' In Length Only, Add	0.72	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.79	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.32	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.97	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.57	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.16	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.00	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.32	
For Single Slope Frame Roof, Add	1.99	
For Each SF Of 24 Gauge Wall Panel, Add	0.79	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.82	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0013 GSF 12' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	27.96	6.26
For 30' To 49' In Length Only, Add	3.29	
For 50' To 69' In Length Only, Add	1.79	
For 70' To 99' In Length Only, Add	0.74	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.84	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.40	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.10	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.73	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.36	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.31	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.71	
For Single Slope Frame Roof, Add	2.05	
For Each SF Of 24 Gauge Wall Panel, Add	0.84	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.88	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0014 GSF 14' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	29.37	6.78
For 30' To 49' In Length Only, Add	3.36	
For 50' To 69' In Length Only, Add	1.83	
For 70' To 99' In Length Only, Add	0.75	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.88	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.47	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.20	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.86	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.52	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.58	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.05	
For Single Slope Frame Roof, Add	2.10	
For Each SF Of 24 Gauge Wall Panel, Add	0.87	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.95	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0015 GSF 16' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	31.45	7.39
For 30' To 49' In Length Only, Add	3.53	
For 50' To 69' In Length Only, Add	1.93	
For 70' To 99' In Length Only, Add	0.79	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.94	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.57	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.36	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.07	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.77	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.98	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.55	
For Single Slope Frame Roof, Add	2.21	
For Each SF Of 24 Gauge Wall Panel, Add	0.93	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.02	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0016 GSF 18' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	34.13	7.93
For 30' To 49' In Length Only, Add	3.87	
For 50' To 69' In Length Only, Add	2.11	
For 70' To 99' In Length Only, Add	0.87	
For >1 In 12 Slope To 3 In 12 Slope, Add	1.02	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.71	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.56	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.33	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.10	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.48	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.19	
For Single Slope Frame Roof, Add	2.42	
For Each SF Of 24 Gauge Wall Panel, Add	1.01	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.09	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13	Special Construction
13 30	Special Structures
13 34	Fabricated Engineered Structures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0017	GSF 20' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	36.51	8.48
	For 30' To 49' In Length Only, Add	4.12	
	For 50' To 69' In Length Only, Add	2.25	
	For 70' To 99' In Length Only, Add	0.93	
	For >1 In 12 Slope To 3 In 12 Slope, Add	1.10	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.83	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.74	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.56	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.38	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.94	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.76	
	For Single Slope Frame Roof, Add	2.57	
	For Each SF Of 24 Gauge Wall Panel, Add	1.08	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.16	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0018	GSF 24' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	39.84	9.57
	For 30' To 49' In Length Only, Add	4.35	
	For 50' To 69' In Length Only, Add	2.37	
	For 70' To 99' In Length Only, Add	0.98	
	For >1 In 12 Slope To 3 In 12 Slope, Add	1.20	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.99	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.99	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.88	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.78	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.57	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	9.56	
	For Single Slope Frame Roof, Add	2.72	
	For Each SF Of 24 Gauge Wall Panel, Add	1.18	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.29	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0019	>50' To 100' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings		
	(13 34 19 00-0002)		
13 34 19 00-0020	GSF 10' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	20.69	4.00
	For 30' To 49' In Length Only, Add	2.79	
	For 50' To 69' In Length Only, Add	1.52	
	For 70' To 99' In Length Only, Add	0.63	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.03	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.55	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.02	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.48	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.93	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.97	
	For Single Slope Frame Roof, Add	1.74	
	For Each SF Of 24 Gauge Wall Panel, Add	0.63	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.60	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0021	GSF 12' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	21.51	4.20
	For 30' To 49' In Length Only, Add	2.88	
	For 50' To 69' In Length Only, Add	1.57	
	For 70' To 99' In Length Only, Add	0.65	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.65	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.08	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.61	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.10	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.58	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.09	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.16	
	For Single Slope Frame Roof, Add	1.80	
	For Each SF Of 24 Gauge Wall Panel, Add	0.66	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.62	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0022 GSF 14' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	22.33	4.39
For 30' To 49' In Length Only, Add	2.96	
For 50' To 69' In Length Only, Add	1.62	
For 70' To 99' In Length Only, Add	0.67	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.67	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.12	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.67	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.18	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.68	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.24	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.36	
For Single Slope Frame Roof, Add	1.85	
For Each SF Of 24 Gauge Wall Panel, Add	0.68	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.65	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0023 GSF 16' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	24.59	5.09
For 30' To 49' In Length Only, Add	3.13	
For 50' To 69' In Length Only, Add	1.71	
For 70' To 99' In Length Only, Add	0.70	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.74	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.23	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.84	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.40	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.95	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.67	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.90	
For Single Slope Frame Roof, Add	1.96	
For Each SF Of 24 Gauge Wall Panel, Add	0.75	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.73	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0024 GSF 18' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	26.36	5.66
For 30' To 49' In Length Only, Add	3.24	
For 50' To 69' In Length Only, Add	1.77	
For 70' To 99' In Length Only, Add	0.73	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.79	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.32	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.98	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.57	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.16	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.01	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.33	
For Single Slope Frame Roof, Add	2.03	
For Each SF Of 24 Gauge Wall Panel, Add	0.79	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.81	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0025 GSF 20' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	28.02	6.24
For 30' To 49' In Length Only, Add	3.33	
For 50' To 69' In Length Only, Add	1.82	
For 70' To 99' In Length Only, Add	0.75	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.84	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.40	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.10	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.73	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.36	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.32	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.72	
For Single Slope Frame Roof, Add	2.08	
For Each SF Of 24 Gauge Wall Panel, Add	0.84	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.88	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0026 GSF 24' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	31.20	7.06
For 30' To 49' In Length Only, Add	3.65	
For 50' To 69' In Length Only, Add	1.99	
For 70' To 99' In Length Only, Add	0.82	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.94	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.56	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.34	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.04	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.74	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.93	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.49	
For Single Slope Frame Roof, Add	2.28	
For Each SF Of 24 Gauge Wall Panel, Add	0.93	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.98	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0027			Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0001) Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0028			20' To 30' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)		
13 34 19 00-0029	GSF		10' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	26.74	5.74
			For 30' To 49' In Length Only, Add	3.29	
			For 50' To 69' In Length Only, Add	1.80	
			For 70' To 99' In Length Only, Add	0.74	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.80	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.34	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.01	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.61	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.21	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.08	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.42	
			For Each SF Of 24 Gauge Wall Panel, Add	0.81	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.82	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0030	GSF		12' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	28.69	6.27
			For 30' To 49' In Length Only, Add	3.48	
			For 50' To 69' In Length Only, Add	1.90	
			For 70' To 99' In Length Only, Add	0.78	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.86	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.43	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.15	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.80	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.44	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.45	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.89	
			For Each SF Of 24 Gauge Wall Panel, Add	0.86	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.88	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0031	GSF		14' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	30.60	6.78
			For 30' To 49' In Length Only, Add	3.65	
			For 50' To 69' In Length Only, Add	1.99	
			For 70' To 99' In Length Only, Add	0.82	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.92	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.53	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.30	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.98	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.67	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.81	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.34	
			For Each SF Of 24 Gauge Wall Panel, Add	0.92	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.95	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0032	GSF		16' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	33.09	7.39
			For 30' To 49' In Length Only, Add	3.92	
			For 50' To 69' In Length Only, Add	2.14	
			For 70' To 99' In Length Only, Add	0.88	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.99	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.65	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.48	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.23	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.97	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.29	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.94	
			For Each SF Of 24 Gauge Wall Panel, Add	0.99	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.02	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0033	GSF		18' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	35.27	7.96
			For 30' To 49' In Length Only, Add	4.13	
			For 50' To 69' In Length Only, Add	2.25	
			For 70' To 99' In Length Only, Add	0.93	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.06	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.76	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.65	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.44	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.23	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.70	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.46	
			For Each SF Of 24 Gauge Wall Panel, Add	1.05	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.09	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0034 GSF 20' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	37.42	8.53
For 30' To 49' In Length Only, Add	4.33	
For 50' To 69' In Length Only, Add	2.37	
For 70' To 99' In Length Only, Add	0.98	
For >1 In 12 Slope To 3 In 12 Slope, Add	1.12	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.87	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.81	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.65	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.49	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.11	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.98	
For Each SF Of 24 Gauge Wall Panel, Add	1.12	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.16	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0035 GSF 24' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	41.88	9.74
For 30' To 49' In Length Only, Add	4.75	
For 50' To 69' In Length Only, Add	2.59	
For 70' To 99' In Length Only, Add	1.07	
For >1 In 12 Slope To 3 In 12 Slope, Add	1.26	
For >3 In 12 Slope To 5 In 12 Slope, Add	2.09	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	3.14	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	4.08	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.03	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	7.96	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	10.05	
For Each SF Of 24 Gauge Wall Panel, Add	1.24	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	1.32	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0036 >40' To 50' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)		
13 34 19 00-0037 GSF 10' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	24.14	5.09
For 30' To 49' In Length Only, Add	3.02	
For 50' To 69' In Length Only, Add	1.65	
For 70' To 99' In Length Only, Add	0.68	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.72	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.21	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.81	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.35	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.90	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.59	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.79	
For Each SF Of 24 Gauge Wall Panel, Add	0.73	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.73	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0038 GSF 12' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	25.73	5.55
For 30' To 49' In Length Only, Add	3.15	
For 50' To 69' In Length Only, Add	1.72	
For 70' To 99' In Length Only, Add	0.71	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.77	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.29	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.93	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.51	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.09	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.89	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.18	
For Each SF Of 24 Gauge Wall Panel, Add	0.77	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.79	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0039 GSF 14' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	27.28	6.01
For 30' To 49' In Length Only, Add	3.27	
For 50' To 69' In Length Only, Add	1.79	
For 70' To 99' In Length Only, Add	0.74	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.82	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.36	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.05	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.66	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.27	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.18	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.55	
For Each SF Of 24 Gauge Wall Panel, Add	0.82	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.85	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34	19 00-0040	GSF	16' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	29.01	6.45
			For 30' To 49' In Length Only, Add	3.45	
			For 50' To 69' In Length Only, Add	1.88	
			For 70' To 99' In Length Only, Add	0.78	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.87	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.45	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.18	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.83	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.48	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.51	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.96	
			For Each SF Of 24 Gauge Wall Panel, Add	0.87	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.91	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0041	GSF	18' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	30.73	6.91
			For 30' To 49' In Length Only, Add	3.61	
			For 50' To 69' In Length Only, Add	1.97	
			For 70' To 99' In Length Only, Add	0.81	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.92	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.54	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.30	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.00	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.69	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.84	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.38	
			For Each SF Of 24 Gauge Wall Panel, Add	0.92	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.96	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0042	GSF	20' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	32.42	7.39
			For 30' To 49' In Length Only, Add	3.76	
			For 50' To 69' In Length Only, Add	2.05	
			For 70' To 99' In Length Only, Add	0.85	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.97	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.62	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.43	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.16	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.89	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.16	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.78	
			For Each SF Of 24 Gauge Wall Panel, Add	0.97	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.02	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0043	GSF	24' Eave Height, Up To 30' Long, >40' To 50' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	36.26	8.42
			For 30' To 49' In Length Only, Add	4.12	
			For 50' To 69' In Length Only, Add	2.25	
			For 70' To 99' In Length Only, Add	0.93	
			For >1 In 12 Slope To 3 In 12 Slope, Add	1.09	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.81	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.72	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.54	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.35	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.89	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.70	
			For Each SF Of 24 Gauge Wall Panel, Add	1.08	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	1.15	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0044		>50' To 80' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0027)</small>		
13 34	19 00-0045	GSF	10' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	21.09	4.00
			For 30' To 49' In Length Only, Add	2.89	
			For 50' To 69' In Length Only, Add	1.58	
			For 70' To 99' In Length Only, Add	0.65	
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.63	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.05	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.58	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.06	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.53	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.01	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.06	
			For Each SF Of 24 Gauge Wall Panel, Add	0.65	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.60	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0046 GSF 12' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	22.22	4.27
<i>For 30' To 49' In Length Only, Add</i>	3.01	
<i>For 50' To 69' In Length Only, Add</i>	1.64	
<i>For 70' To 99' In Length Only, Add</i>	0.68	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.67	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.11	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.67	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.17	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.67	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.22	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	5.33	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.68	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.63	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0047 GSF 14' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	23.30	4.54
<i>For 30' To 49' In Length Only, Add</i>	3.12	
<i>For 50' To 69' In Length Only, Add</i>	1.70	
<i>For 70' To 99' In Length Only, Add</i>	0.70	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.70	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.17	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.75	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.27	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.80	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.43	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	5.59	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.71	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.67	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0048 GSF 16' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	24.49	4.81
<i>For 30' To 49' In Length Only, Add</i>	3.26	
<i>For 50' To 69' In Length Only, Add</i>	1.78	
<i>For 70' To 99' In Length Only, Add</i>	0.73	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.73	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.22	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.84	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.39	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.94	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.65	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	5.88	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.75	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.70	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0049 GSF 18' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	25.99	5.15
<i>For 30' To 49' In Length Only, Add</i>	3.44	
<i>For 50' To 69' In Length Only, Add</i>	1.88	
<i>For 70' To 99' In Length Only, Add</i>	0.77	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.78	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.30	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.95	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.53	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.12	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.94	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	6.24	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.79	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.74	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0050 GSF 20' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	27.36	5.42
<i>For 30' To 49' In Length Only, Add</i>	3.62	
<i>For 50' To 69' In Length Only, Add</i>	1.97	
<i>For 70' To 99' In Length Only, Add</i>	0.81	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.82	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.37	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	2.05	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.67	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.28	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	5.20	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	6.57	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.83	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.78	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0051	GSF 24' Eave Height, Up To 30' Long, >50' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding.....	30.48	6.15
	For 30' To 49' In Length Only, Add	3.96	
	For 50' To 69' In Length Only, Add	2.16	
	For 70' To 99' In Length Only, Add	0.89	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.91	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.52	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.29	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.97	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.66	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.79	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.32	
	For Each SF Of 24 Gauge Wall Panel, Add	0.93	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.87	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0052 Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0053 Up To 60' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings

(13 34 19 00-0052)

13 34 19 00-0054	GSF 14' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	21.95	4.71
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.66	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.10	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.65	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.14	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.63	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.17	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.27	
	For Each SF Of 24 Gauge Wall Panel, Add	0.66	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.69	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0055	GSF 16' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	23.41	5.03
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.70	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.17	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.76	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.28	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.81	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.45	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.62	
	For Each SF Of 24 Gauge Wall Panel, Add	0.71	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.73	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0056	GSF 18' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	24.58	5.30
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.74	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.23	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.84	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.40	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.95	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.67	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.90	
	For Each SF Of 24 Gauge Wall Panel, Add	0.74	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.76	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0057	GSF 20' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	25.73	5.57
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.77	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.29	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.93	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.51	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.09	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.89	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.18	
	For Each SF Of 24 Gauge Wall Panel, Add	0.77	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.80	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0058	GSF 24' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	27.86	6.06
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.84	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.39	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.09	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.72	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.34	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.29	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.69	
	For Each SF Of 24 Gauge Wall Panel, Add	0.84	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.86	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0059 >60' To 80' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0060 GSF 14' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	20.40	4.15
For >1 In 12 Slope To 3 In 12 Slope, Add	0.61	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.02	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.53	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.99	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.45	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.88	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.90	
For Each SF Of 24 Gauge Wall Panel, Add	0.62	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.62	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0061 GSF 16' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	21.71	4.43
For >1 In 12 Slope To 3 In 12 Slope, Add	0.65	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.09	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.63	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.12	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.61	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.12	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.21	
For Each SF Of 24 Gauge Wall Panel, Add	0.66	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.65	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0062 GSF 18' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	22.88	4.71
For >1 In 12 Slope To 3 In 12 Slope, Add	0.69	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.14	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.72	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.23	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.75	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.35	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.49	
For Each SF Of 24 Gauge Wall Panel, Add	0.69	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.69	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0063 GSF 20' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	23.89	4.92
For >1 In 12 Slope To 3 In 12 Slope, Add	0.72	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.19	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.79	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.33	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.87	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.54	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.73	
For Each SF Of 24 Gauge Wall Panel, Add	0.72	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.71	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0064 GSF 24' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	25.85	5.36
For >1 In 12 Slope To 3 In 12 Slope, Add	0.78	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.29	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.94	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.52	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.10	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.91	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.20	
For Each SF Of 24 Gauge Wall Panel, Add	0.78	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.77	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0065 >80' To 100' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings		
(13 34 19 00-0052)		
13 34 19 00-0066 GSF 14' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	18.96	3.66
For >1 In 12 Slope To 3 In 12 Slope, Add	0.57	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.95	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.42	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.85	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.28	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.60	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.55	
For Each SF Of 24 Gauge Wall Panel, Add	0.58	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.56	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34	19 00-0067	GSF	16' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.87	3.83
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.60	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.99	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.49	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.94	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.38	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.78	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.77	
			For Each SF Of 24 Gauge Wall Panel, Add	0.61	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.58	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0068	GSF	18' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.92	4.04
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.63	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.05	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.57	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.04	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.51	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.97	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.02	
			For Each SF Of 24 Gauge Wall Panel, Add	0.64	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.61	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0069	GSF	20' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	21.82	4.21
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.65	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.09	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.64	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.13	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.62	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.15	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.24	
			For Each SF Of 24 Gauge Wall Panel, Add	0.67	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.63	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0070	GSF	24' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	23.62	4.59
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.71	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.18	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.77	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.30	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.83	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.49	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.67	
			For Each SF Of 24 Gauge Wall Panel, Add	0.72	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.67	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0071		>100' To 120' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)		
13 34	19 00-0072	GSF	14' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.49	3.50
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.55	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.92	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.39	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.80	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.22	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.51	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.44	
			For Each SF Of 24 Gauge Wall Panel, Add	0.57	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.54	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0073	GSF	16' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	19.22	3.66
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.96	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.44	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.87	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.31	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.65	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.61	
			For Each SF Of 24 Gauge Wall Panel, Add	0.59	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.56	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction	13
Special Structures	13 30
Fabricated Engineered Structures	13 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0074 GSF 18' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	20.12	3.83
For >1 In 12 Slope To 3 In 12 Slope, Add	0.60	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.01	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.51	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.96	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.41	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.82	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.83	
For Each SF Of 24 Gauge Wall Panel, Add	0.62	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.58	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0075 GSF 20' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	20.95	4.00
For >1 In 12 Slope To 3 In 12 Slope, Add	0.63	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.05	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.57	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.04	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.51	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.98	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.03	
For Each SF Of 24 Gauge Wall Panel, Add	0.64	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.60	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0076 GSF 24' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding.....	22.73	4.32
For >1 In 12 Slope To 3 In 12 Slope, Add	0.68	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.14	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.70	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.22	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.73	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.32	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.46	
For Each SF Of 24 Gauge Wall Panel, Add	0.70	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.64	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0077 Double Post 3-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small>		
Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0078 Up To 120' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0077)</small>		
13 34 19 00-0079 GSF 14' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	18.29	3.66
For >1 In 12 Slope To 3 In 12 Slope, Add	0.55	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.91	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.37	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.78	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.19	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.48	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.39	
For Each SF Of 24 Gauge Wall Panel, Add	0.56	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.56	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0080 GSF 16' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	19.00	3.83
For >1 In 12 Slope To 3 In 12 Slope, Add	0.57	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.95	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.43	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.85	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.28	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.61	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.56	
For Each SF Of 24 Gauge Wall Panel, Add	0.58	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.58	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0081 GSF 18' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	19.12	3.72
For >1 In 12 Slope To 3 In 12 Slope, Add	0.57	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.96	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.43	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.86	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.29	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.63	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.59	
For Each SF Of 24 Gauge Wall Panel, Add	0.58	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.56	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34	19 00-0082	GSF	20' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	19.88	3.88
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.60	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.99	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.49	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.94	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.39	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.78	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.77	
			For Each SF Of 24 Gauge Wall Panel, Add	0.61	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.59	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0083	GSF	24' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	22.38	4.15
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.67	
			For >3 In 12 Slope To 5 In 12 Slope, Add	1.12	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.68	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.18	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.69	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.25	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.37	
			For Each SF Of 24 Gauge Wall Panel, Add	0.69	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.62	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0084		>120' To 150' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0077)		
13 34	19 00-0085	GSF	14' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	17.31	3.33
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.87	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.29	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.15	
			For Each SF Of 24 Gauge Wall Panel, Add	0.53	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.52	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0086	GSF	16' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	17.89	3.45
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.89	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.34	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.74	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.15	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.40	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.29	
			For Each SF Of 24 Gauge Wall Panel, Add	0.55	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.53	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0087	GSF	18' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	18.57	3.58
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.56	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.93	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.39	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.81	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.23	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.53	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.46	
			For Each SF Of 24 Gauge Wall Panel, Add	0.57	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.55	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34	19 00-0088	GSF	20' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	19.22	3.72
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.96	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.44	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.87	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.31	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.65	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.61	
			For Each SF Of 24 Gauge Wall Panel, Add	0.59	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.56	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction	13
Special Structures	13 30
Fabricated Engineered Structures	13 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0089 GSF 24' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	21.70 0.65 1.09 1.63 2.12 2.60 4.12 5.21 0.67 -0.76 0.60 -1.97	4.00
13 34 19 00-0090 Triple Post 4-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small> Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0091 Up To 160' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building <small>(13 34 19 00-0090)</small>		
13 34 19 00-0092 GSF 14' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	16.62 0.50 0.83 1.25 1.62 1.99 3.16 3.99 0.51 -0.76 0.50 -1.97	3.17
13 34 19 00-0093 GSF 16' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	17.32 0.52 0.87 1.30 1.69 2.08 3.29 4.16 0.53 -0.76 0.51 -1.97	3.28
13 34 19 00-0094 GSF 18' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	17.91 0.54 0.90 1.34 1.75 2.15 3.40 4.30 0.55 -0.76 0.52 -1.97	3.39
13 34 19 00-0095 GSF 20' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	18.47 0.55 0.92 1.39 1.80 2.22 3.51 4.43 0.57 -0.76 0.54 -1.97	3.50
13 34 19 00-0096 GSF 24' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding For >1 In 12 Slope To 3 In 12 Slope, Add For >3 In 12 Slope To 5 In 12 Slope, Add For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add For Each SF Of 24 Gauge Wall Panel, Add For Each SF Of Lap Roof, Deduct For Each SF Of Hip Roof, Add For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	20.95 0.63 1.05 1.57 2.04 2.51 3.98 5.03 0.65 -0.76 0.58 -1.97	3.83
13 34 19 00-0097 >160' To 180' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building <small>(13 34 19 00-0090)</small>		

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0098 GSF 14' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.40	3.06
For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.82	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.23	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.60	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.97	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.12	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.94	
For Each SF Of 24 Gauge Wall Panel, Add	0.50	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.48	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0099 GSF 16' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.99	3.17
For >1 In 12 Slope To 3 In 12 Slope, Add	0.51	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.85	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.27	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.66	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.04	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.23	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.08	
For Each SF Of 24 Gauge Wall Panel, Add	0.52	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.50	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0100 GSF 18' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	17.62	3.28
For >1 In 12 Slope To 3 In 12 Slope, Add	0.53	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.88	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.32	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.72	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.11	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.35	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.23	
For Each SF Of 24 Gauge Wall Panel, Add	0.54	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.51	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0101 GSF 20' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	18.22	3.39
For >1 In 12 Slope To 3 In 12 Slope, Add	0.55	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.91	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.37	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.78	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.19	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.46	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.37	
For Each SF Of 24 Gauge Wall Panel, Add	0.56	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.52	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0102 GSF 24' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	20.58	3.66
For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.03	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.54	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.01	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.47	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.91	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.94	
For Each SF Of 24 Gauge Wall Panel, Add	0.64	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.56	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0103 >180' To 200' Wide Triple Post 4-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0090)		
13 34 19 00-0104 GSF 14' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.21	2.95
For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.81	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.22	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.58	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.95	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.08	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.89	
For Each SF Of 24 Gauge Wall Panel, Add	0.50	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.47	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0105 GSF 16' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	16.68	3.06
For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.83	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.25	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.63	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.00	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.17	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.00	
For Each SF Of 24 Gauge Wall Panel, Add	0.51	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.48	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0106 GSF 18' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	17.33	3.17
For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.87	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.29	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.16	
For Each SF Of 24 Gauge Wall Panel, Add	0.53	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.50	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0107 GSF 20' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	17.97	3.28
For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.90	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.35	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.75	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.16	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.41	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.31	
For Each SF Of 24 Gauge Wall Panel, Add	0.55	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.51	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0108 GSF 24' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	20.35	3.56
For >1 In 12 Slope To 3 In 12 Slope, Add	0.61	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.02	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.53	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.98	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.44	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.87	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.88	
For Each SF Of 24 Gauge Wall Panel, Add	0.63	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.54	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0109 Metal Building Options <small>(13 34 19 00-0001)</small>		
Note: For use with metal buildings only. See CSI section 08 12 13 13-0000 for metal door frames, 08 13 13 13-0000 for metal doors, 08 33 23 00-0000 for coiling roll-up doors.		
13 34 19 00-0110 Metal Framing For Rough Openings <small>(13 34 19 00-0109)</small>		
Note: Excludes doors See CSI section 08 13 00 00-0000 for metal doors.		
13 34 19 00-0111 EA Single Door, Metal Frame Rough Opening	520.48	122.50
13 34 19 00-0112 EA Double Door, Metal Frame Rough Opening.....	798.52	158.59
13 34 19 00-0113 EA 10' x 10' Overhead Door, Metal Frame Rough Opening	957.70	150.39
13 34 19 00-0114 EA 12' x 12' Overhead Door, Metal Frame Rough Opening	1,036.14	153.12
13 34 19 00-0115 EA 14' x 14' Overhead Door, Metal Frame Rough Opening	1,101.44	158.59
13 34 19 00-0116 EA Up To 12 SF, Window Opening, Metal Frame Rough Opening	499.28	122.50
13 34 19 00-0117 EA >12 To 18 SF, Window Opening, Metal Frame Rough Opening.....	560.22	139.23
13 34 19 00-0118 LF Additional Girts	11.96	
13 34 19 00-0119 Wall Panel Options For Metal Buildings <small>(13 34 19 00-0109)</small>		
Note: Upgrade from 26 gauge wall panels.		
13 34 19 00-0120 SF Upgrade To 2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....	13.14	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0121 SF Upgrade To 2-1/2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	15.99	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0122 SF Upgrade To 3" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....	18.57	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0123 SF Upgrade To 4" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile.....	21.58	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0124			Roofing Options For Metal Buildings (13 34 19 00-0109) Note: Upgrade from 26 gauge standing seam roof panels.		
13 34 19 00-0125	SF		Upgrade To 24 Gauge Galvanized Steel Standing Seam Roof	1.23	
13 34 19 00-0126	SF		Upgrade To 4" Thick Insulated Roof Panel, Metal-Span III, CFR-42	20.84	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0127	SF		Upgrade To 5" Thick Insulated Roof Panel, Metal-Span III, CFR-42	22.18	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0128	SF		Upgrade To 6" Thick Insulated Roof Panel, Metal-Span III, CFR-42	23.27	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0129	EA		3' x 10' Translucent Fiberglass Panels.....	158.72	47.03
13 34 19 00-0130	LF		Vented Ridge Vent For Standing Seam Roof	21.32	
13 34 19 00-0131			Insulation For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0132	SF		1-1/2" Thick, R-5.5, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	1.35	0.39
13 34 19 00-0133	SF		2-1/2" Thick, R-8, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	1.48	0.39
13 34 19 00-0134	SF		3-1/2" Thick, R-11, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	1.68	0.52
13 34 19 00-0135	SF		3-1/2" Thick, R-13, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	1.92	0.52
13 34 19 00-0136	SF		6" Thick, R-19, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation.....	2.37	0.52
13 34 19 00-0137	SF		1-1/2" Thick, R-5.5, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.61	0.39
13 34 19 00-0138	SF		2-1/2" Thick, R-8, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.74	0.39
13 34 19 00-0139	SF		3-1/2" Thick, R-11, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.89	0.52
13 34 19 00-0140	SF		3-1/2" Thick, R-13, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	2.08	0.52
13 34 19 00-0141	SF		6" Thick, R-19, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation.....	2.45	0.52
13 34 19 00-0142	SF		1-1/2" Thick, R-5.5, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.53	0.39
13 34 19 00-0143	SF		2-1/2" Thick, R-8, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.69	0.39
13 34 19 00-0144	SF		3-1/2" Thick, R-11, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	1.99	0.52
13 34 19 00-0145	SF		3-1/2" Thick, R-13, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	2.18	0.52
13 34 19 00-0146	SF		6" Thick, R-19, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation.....	2.53	0.52
13 34 19 00-0147	SF		2" Thick, R-6.5, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.43	0.39
13 34 19 00-0148	SF		3" Thick, R-10, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.51	0.39
13 34 19 00-0149	SF		4" Thick, R-13, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.70	0.52
13 34 19 00-0150	SF		6" Thick, R-19, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	2.09	0.52
13 34 19 00-0151	SF		2" Thick, R-6.5, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.45	0.39
13 34 19 00-0152	SF		3" Thick, R-10, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.53	0.39
13 34 19 00-0153	SF		4" Thick, R-13, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	1.73	0.52
13 34 19 00-0154	SF		6" Thick, R-19, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation.....	2.14	0.52
13 34 19 00-0155	SF		2" Thick, R-6.5, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.88	0.39
13 34 19 00-0156	SF		3" Thick, R-10, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.00	0.39
13 34 19 00-0157	SF		4" Thick, R-13, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.19	0.52
13 34 19 00-0158	SF		6" Thick, R-19, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	2.60	0.52
13 34 19 00-0159			Eave And Overhang Options For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0160	LF		2' End Wall Roof Overhang And 26 Gauge Soffit	38.61	8.53
13 34 19 00-0161	LF		4' End Wall Roof Overhang And 26 Gauge Soffit	58.25	6.13
13 34 19 00-0162	SF		Up To 20 SF, Prefinished Aluminum, Wall Hung Canopy	78.02	13.67
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	18.14	
			For Overhead Braced (Up To 10' Wall Projection), Add	10.34	
13 34 19 00-0163	SF		>20 To 50 SF, Prefinished Aluminum, Wall Hung Canopy.....	65.21	11.48
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	15.15	
			For Overhead Braced (Up To 10' Wall Projection), Add	8.63	
13 34 19 00-0164	SF		>50 SF, Prefinished Aluminum, Wall Hung Canopy.....	49.75	9.84
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	11.45	
			For Overhead Braced (Up To 10' Wall Projection), Add	6.48	
13 34 19 00-0165	SF		Up To 50 SF, Prefinished Aluminum, Free Standing Canopy	96.35	20.78
			Note: Includes finished underside and edges.		
13 34 19 00-0166	SF		>50 SF, Prefinished Aluminum, Free Standing Canopy	64.37	12.58
			Note: Includes finished underside and edges.		
13 34 19 00-0167	LF		1' Standard Eave Overhang Without Soffit.....	32.71	
13 34 19 00-0168	LF		2' Standard Eave Overhang Without Soffit.....	40.86	
13 34 19 00-0169	LF		3' Standard Eave Overhang Without Soffit.....	49.31	
13 34 19 00-0170	LF		4' Standard Eave Overhang Without Soffit.....	57.64	
13 34 19 00-0171	LF		6' Standard Eave Overhang Without Soffit.....	73.51	
13 34 19 00-0172	LF		1' Standard Eave Overhang And 26 Gauge Soffit.....	43.26	
			For 24 Gauge, Add	4.39	
13 34 19 00-0173	LF		2' Standard Eave Overhang And 26 Gauge Soffit.....	53.99	
			For 24 Gauge, Add	5.54	
13 34 19 00-0174	LF		3' Standard Eave Overhang And 26 Gauge Soffit.....	65.00	
			For 24 Gauge, Add	6.64	
13 34 19 00-0175	LF		4' Standard Eave Overhang And 26 Gauge Soffit.....	76.03	
			For 24 Gauge, Add	7.73	



Special Construction	13
Special Structures	13 30
Fabricated Engineered Structures	13 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0176 LF 6' Standard Eave Overhang And 26 Gauge Soffit <i>For 24 Gauge, Add</i>	97.02 9.96	
13 34 19 00-0177 Louvers And Vents For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0178 EA 4' x 3' Fixed Louver	613.19	170.62
13 34 19 00-0179 EA 12" Rotary Vent With Damper.....	373.39	109.37
13 34 19 00-0180 EA 20" Rotary Vent With Damper.....	649.11	146.01
13 34 19 00-0181 EA 24" Rotary Vent With Damper.....	854.33	164.06
13 34 19 00-0182 EA Gravity Ridge Ventilator With Birdscreen, 9" Throat x 10'.....	985.18	218.75
13 34 19 00-0183 EA Gravity Ridge Ventilator With Birdscreen, 12" Throat x 10'.....	1,047.51	218.75
13 34 19 00-0184 EA Ridge Ventilator - 9" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....	1,210.70	218.75
13 34 19 00-0185 EA Ridge Ventilator - 12" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....	1,318.09	218.75
13 34 19 00-0186 EA Ridge Ventilator - 15" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....	1,436.22	218.75
13 34 19 00-0187 EA Ridge Ventilator - 18" Throat X 10 Ft, Manually Operated Damper With Birdscreen.....	1,554.35	218.75
13 34 19 00-0188 EA Ridge Ventilator - 9" Throat X 10 Ft, Motor Operated Damper With Birdscreen.....	2,039.58	273.43
13 34 19 00-0189 EA Ridge Ventilator - 12" Throat X 10 Ft, Motor Operated Damper With Birdscreen.....	2,232.88	273.43
13 34 19 00-0190 Gutters And Downspouts For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0191 LF Pre-Engineered Standard Type Gutter, Painted..... <i>For Galvanized Instead Of Painted, Deduct</i>	11.80 -1.58	2.74
13 34 19 00-0192 LF Pre-Engineered Standard Type Downspout, Painted..... <i>For Galvanized Instead Of Painted, Deduct</i>	10.19 -0.63	3.83
13 34 23 Fabricated Structures (13 34)		
13 34 23 13 Portable and Mobile Buildings (13 34 23)		
13 34 23 13-0001 Prefabricated Signal, Communication Or Electrical Building (13 34 23 13)		
Note: Complete, includes door, roof, lights and wiring, insulation, painted.		
13 34 23 13-0002 SF 15 SF To 29 SF Prefabricated Signal, Communication Or Electrical Building	540.50	
13 34 23 13-0003 SF 30 SF To 49 SF Prefabricated Signal, Communication Or Electrical Building	463.60	
13 34 23 13-0004 SF 50 SF To 79 SF Prefabricated Signal, Communication Or Electrical Building	371.05	
13 34 23 13-0005 SF 80 SF To 99 SF Prefabricated Signal, Communication Or Electrical Building	293.60	
13 34 23 13-0006 SF 100 SF To 144 SF Prefabricated Signal, Communication Or Electrical Building	262.43	
13 34 23 13-0007 Temporary Trailers 1 To 6 Years Life (13 34 23 13)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, phone jacks, two wooden landings, stairs, and handrails. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
13 34 23 13-0008 SF Single Trailer Up To 14' x 73'..... <i>For Each Delivery And Set-Up (Block And Level), Add</i> <i>For Each Knock-Down And Pick-Up, Add</i> <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	54.35 1,303.86 1,023.86 110.00	
13 34 23 13-0009 SF Modular Trailers, Connected..... <i>For Each Anchoring Into Asphalt Or Concrete, Add</i> <i>For Each Delivery And Set-Up (Block And Level), Add</i> <i>For Each Knock-Down And Pick-Up, Add</i>	76.09 110.00 2,839.12 2,189.12	
13 34 23 13-0010 EA Add Per Additional Exterior Door With Frame And Hardware.....	815.21	
13 34 23 13-0011 Accessories (13 34 23 13)		
13 34 23 13-0012 Skirting (13 34 23 13-0011)		
Note: Includes 2" x 4" wood framing 16" on center.		
13 34 23 13-0013 Vinyl Covered, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0014 SF 1'-8" High Vinyl Covered Skirt.....	4.95	2.00
13 34 23 13-0015 SF 3' High Vinyl Covered Skirt.....	7.36	3.30
13 34 23 13-0016 Fiberglass, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0017 SF 1'-8" High Fiberglass Skirt.....	8.68	3.78
13 34 23 13-0018 SF 3' High Fiberglass Skirt.....	10.18	4.60
13 34 23 13-0019 Plywood, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0020 SF 1'-8" High 5/8" Plywood Skirt.....	8.69	4.01
13 34 23 13-0021 SF 3' High 5/8" Plywood Skirt.....	10.32	4.83
13 34 23 13-0022 Steel, Painted, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0023 SF 1'-8" High 26 Gauge Steel Skirt.....	9.70	3.78
13 34 23 13-0024 SF 3' High 26 Gauge Steel Skirt.....	11.31	4.60
13 34 23 13-0025 14" x 14" Access Hatch (13 34 23 13-0011)		
Note: Simple design.		

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 13-0026 EA 14" x 14" Vinyl Covered Access Hatch	243.17	88.56
13 34 23 13-0027 EA 14" x 14" Fiberglass Access Hatch	205.69	88.56
13 34 23 13-0028 EA 14" x 14" Plywood Access Hatch	241.63	88.56
13 34 23 13-0029 EA 14" x 14" 26 Gauge Steel Access Hatch.....	242.90	88.56
13 34 23 13-0030 Aluminum Modular Access Ramp (13 34 23 13-0011) Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
13 34 23 13-0031 EA 72" Long x 52-1/4" Wide Ramp Section, Aluminum Modular Access Ramp	2,985.71	29.48
13 34 23 13-0032 EA 60-1/4" Long x 61-3/4" Wide Door Landing Section, Aluminum Modular Access Ramp	3,021.08	38.32
13 34 23 13-0033 EA 60-1/4" Long x 123-1/2" Wide Switchback Landing Section, Aluminum Modular Access Ramp	6,207.78	58.96
13 34 23 13-0034 EA 110-3/4" Long x 72" Wide Switchback Landing Section, Aluminum Modular Access Ramp	6,686.50	58.96
13 34 23 13-0035 EA 60-1/4" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	3,140.76	38.32
13 34 23 13-0036 EA 71-3/4" Long x 52-1/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	3,105.39	29.48
13 34 23 13-0037 EA 84-1/2" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	4,334.55	38.32
13 34 23 13-0038 EA 30" High x 82" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	3,082.42	38.32
13 34 23 13-0039 EA 35" High x 96" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	3,082.42	38.32
13 34 23 13-0040 EA 42" High x 110" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	3,505.78	38.32
13 34 23 13-0041 EA 49" High x 124" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	3,926.15	38.32
13 34 23 13-0042 Relocate Portable And Mobile Trailer (13 34 23 13) Note: Excludes anchors, skirting, steps, ramps, utility hook-ups and foundation. See CSI section 01 22 16 00-0002 for reimbursable permit fees, 01 22 20 00-0072 for escort vehicle, 13 34 23 13-0012 for skirting, 26 05 46 00-0060 for anchors.		
13 34 23 13-0043 EA Prepare, Up To 12' Wide, Single Trailer For Transporstation	797.02	
Note: Includes securing interior, mounting tires, and mounting trailer hitch		
13 34 23 13-0044 EA Separate, 24' Wide Double Trailer And Prepare For Transporstation	3,920.78	
Note: Includes separating trailers, securing interior, installing plastic and boards to open side of each (2) trailers, mounting tires, and mounting trailer hitch.		
13 34 23 13-0045 EA Remove Blocking From 8' Wide x Up To 35' Long Trailer.....	350.68	
Note: Per trailer		
13 34 23 13-0046 EA Remove Blocking From 10' Wide x 40' To 50' Long Trailer.....	446.33	
Note: Per trailer		
13 34 23 13-0047 EA Remove Blocking From 12' Wide x 45' To 60' Long Trailer.....	541.97	
Note: Per trailer		
13 34 23 13-0048 EA Remove Blocking From 24' Wide x 45' To 60' Long Trailer.....	1,083.94	
Note: Per trailer		
13 34 23 13-0049 MI Transportation And Delivery Of Trailer.....	14.20	
See CSI section 01 22 20 00-0073 for escort vehicle service (when required).		
13 34 23 13-0050 EA Re-connect 24' Wide Double Trailer	7,815.29	
Note: Includes removal of temporary plastic and boards, caulking, installtion of flooring, ceiling and roofing seams. Excludes blocking and leveling. See CSI section 13 34 23 13-0053 for blocking and leveling of each section.		
13 34 23 13-0051 EA Set-Up (Block And Level) Trailer, 8' Wide x Up To 35' Long.....	438.36	
Note: Per trailer		
13 34 23 13-0052 EA Set-Up (Block And Level) Trailer, 10' Wide x 40' To 50' Long.....	557.91	
Note: Per trailer		
13 34 23 13-0053 EA Set-Up (Block And Level) Trailer, 12' Wide x 45' To 60' Long.....	677.46	
Note: Per trailer		
13 34 23 13-0054 EA Set-Up (Block And Level) Trailer, 24' Wide x 45' To 60' Long.....	1,354.93	
Note: Per trailer		
13 34 23 13-0055 EA Connection Straps To Anchor.....	19.93	
Note: Includes straps per each anchor See CSI section 26 05 46 00-0060 for anchors.		
13 34 23 14 Fabricated Classroom Buildings (13 34 23) 13 34 23 14-0001 Semi Permanent Modular Transportable Buildings (13 34 23 14)		
13 34 23 14-0002 SF Portable Classrooms, Complete With Doors, Windows, Fixtures, Toilets And Workroom	80.98	
For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
For Each Delivery And Set-Up (Block And Level), Add	2,839.12	
For Each Knock-Down And Pick-Up, Add	2,189.12	
13 34 23 14-0003 SF Modular Classroom, Connected, Complete With Doors, Windows, Fixtures, Toilets And Teachers Work Room.....	83.37	
For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
For Each Delivery And Set-Up (Block And Level), Add	2,839.12	
For Each Knock-Down And Pick-Up, Add	2,189.12	
13 34 23 16 Fabricated Control Booths (13 34 23) 13 34 23 16-0001 Fabricated Parking Attendant Booths (13 34 23 16) Note: Excludes foundations and slab.		
13 34 23 16-0002 EA Parking Booth For Attendant.....	1,244.08	
13 34 23 31 Fabricated Pavilion Style Buildings (13 34 23) 13 34 23 31-0001 Pavilion Style Metal Shelter Structures (13 34 23 31) Note: Prefabricated open structure system, complete with all necessary hardware. Hip roof, steel structural rafters and columns, urethane/polyester (TGIC) powder finish, aluminum roof decking, 8' height at perimeter. Excludes foundations and slab. Americana or equal.		
13 34 23 31-0002 EA 12' x 12' Pavilion Style Metal Shelter Structure.....	10,548.96	2,097.33
13 34 23 31-0003 EA 16' x 16' Pavilion Style Metal Shelter Structure.....	12,377.54	2,188.54
13 34 23 31-0004 EA 16' x 32' Pavilion Style Metal Shelter Structure.....	15,769.90	2,334.45



Special Construction	13
Special Structures	13 30
Fabricated Engineered Structures	13 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 23 31-0005 EA 20' x 20' Pavilion Style Metal Shelter Structure.....	14,815.15	2,261.50
13 34 23 31-0006 EA 20' x 30' Pavilion Style Metal Shelter Structure.....	18,316.33	2,480.35
13 34 23 31-0007 EA 20' x 40' Pavilion Style Metal Shelter Structure.....	21,811.06	2,553.30
13 34 23 31-0008 EA 24' x 24' Pavilion Style Metal Shelter Structure.....	18,097.11	2,334.45
13 34 23 31-0009 EA 24' x 48' Pavilion Style Metal Shelter Structure.....	25,531.41	2,918.06
13 34 23 31-0010 EA 30' x 30' Pavilion Style Metal Shelter Structure.....	24,548.25	2,918.06
13 34 23 31-0011 EA 30' x 60' Pavilion Style Metal Shelter Structure.....	48,754.83	3,647.57
13 34 23 31-0012 EA 40' x 40' Pavilion Style Metal Shelter Structure.....	45,166.39	4,558.65
13 34 23 31-0013 EA 40' x 60' Pavilion Style Metal Shelter Structure.....	65,371.02	5,106.60

13 40 Integrated Construction ⁽¹³⁾

13 42 Building Modules ^(13 40)

13 42 63 Detention Cell Modules ^(13 42)

13 42 63 16 Steel Detention Cell Modules ^(13 42 63)

13 42 63 16-0001 EA Bar Front, Rolling, 7/8" Bars, 4" On Center, 7' High, 5' Wide..... Note: With hardware.	18,646.43	846.71
13 42 63 16-0002 EA Cells, Prefabricated, 5'-6' Wide, 7'-8' High, Bar Front, Cot..... Note: Not including plumbing.	20,971.45	1,133.77
13 42 63 16-0003 SF Temporary Holding Cell, 1/4" Woven Rod Panels On 2" Centers..... Note: Includes 12 gauge steel frame and concealment plates.	91.02	8.02
13 42 63 16-0004 SF Solid Security Ceiling, 14 Gauge Formed Steel Channels..... Note: 20" wide, 14 gauge galvanized steel face sheet, 10 gauge steel wall angle, backed polyester powder finish.	69.55	8.02
13 42 63 16-0005 SF Perforated Metal Crime Shield.....	64.35	3.31

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001 Anodes ^(13 47 13 13)		
13 47 13 13-0002 Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003 EA 9 LB Magnesium Type Anodes.....	426.24	191.20
13 47 13 13-0004 EA 17 LB Magnesium Type Anodes.....	629.30	276.35
13 47 13 13-0005 EA 32 LB Magnesium Type Anode.....	850.14	355.51
13 47 13 13-0006 EA 48 LB Magnesium Type Anode.....	1,207.01	497.43
13 47 13 13-0007 Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008 EA 3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	648.23	277.53
13 47 13 13-0009 EA 4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	990.83	387.55
13 47 13 13-0010 EA 6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	723.90	242.53
13 47 13 13-0011 EA 6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	1,088.19	323.79
13 47 13 13-0012 Rectifiers ^(13 47 13 13)		
13 47 13 13-0013 Air Cooled, Silicon Type ^(13 47 13 13-0012)		
13 47 13 13-0014 EA Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	1,940.18	394.06
13 47 13 13-0015 EA Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,083.98	394.06
13 47 13 13-0016 Oil Immersed, Silicon Type ^(13 47 13 13-0012)		
13 47 13 13-0017 EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	2,862.03	455.63
13 47 13 13-0018 EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	3,016.11	455.63
13 47 13 13-0019 Anode Backfill ^(13 47 13 13)		
13 47 13 13-0020 LB Anode Backfill, Coke Breeze	1.29	0.50
13 47 13 13-0021 Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0022 MLF Cathodic Protection Cable, OR2 - No 8	2,379.15	970.12
13 47 13 13-0023 MLF Cathodic Protection Cable, OR2 - No 6	2,573.49	970.12
13 47 13 13-0024 MLF Cathodic Protection Cable, OR2 - No 4	2,864.98	970.12
13 47 13 13-0025 MLF Cathodic Protection Cable, OR2 - No 2	3,350.81	970.12
13 47 13 13-0026 MLF Cathodic Protection Cable, OR2 - No 1	4,077.27	1,068.88
13 47 13 13-0027 MLF Cathodic Protection Cable, OR2-No 1/0	4,441.64	1,068.88
13 47 13 13-0028 MLF Cathodic Protection Cable, OR2-No 2/0	5,048.92	1,068.88
13 47 13 13-0029 MLF Cathodic Protection Cable, OR2-No 4/0	6,698.08	1,165.14
13 47 13 13-0030 Cathodic Test Stations ^(13 47 13 13)		

13 Special Construction**13 40 Integrated Construction****13 47 Facility Protection**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 47 13 13-0031 Flush Curb Box Type With Lockable Cover And Terminal Box (13 47 13 13-0030)		
13 47 13 13-0032 EA Cathodic Test Station, Flush Curb Type With Lockable Cover	320.66	113.56
13 47 13 16 Cathodic Protection for Underground Storage Tanks (13 47 13)		
See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		
13 48 Sound, Vibration, and Seismic Control (13 40)		
13 48 63 Fabricated Seismic Control Assemblies (13 48)		
13 48 63 00-0001 Seismic Bracing Assembly (13 48 63)		
13 48 63 00-0002 EA 4-Bolt Deck Anchor Connection For Seismic Brace.....	166.74	
Note: Includes drilling into concrete, bolts, anchor plate, seismic bracket attached with bolt, nut and washer.		
13 48 63 00-0003 EA 2 Cable Seismic Brace With Center Threaded Rod Stiffener.....	151.11	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0004 EA 3 Cable Seismic Brace With Center Threaded Rod Stiffener.....	226.68	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0005 EA 4 Cable Seismic Brace With Center Threaded Rod Stiffener.....	293.40	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0006 EA 2 Channel Seismic Brace With Center Threaded Rod Stiffener.....	276.07	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0007 EA 3 Channel Seismic Brace With Center Threaded Rod Stiffener.....	409.71	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0008 EA 4 Channel Seismic Brace With Center Threaded Rod Stiffener.....	543.35	
Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0009 EA 2 Rod Seismic Brace With Center Threaded Rod Stiffener.....	185.26	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0010 EA 3 Rod Seismic Brace With Center Threaded Rod Stiffener.....	273.50	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0011 EA 4 Rod Seismic Brace With Center Threaded Rod Stiffener.....	361.73	
Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0012 Seismic Brace Components (13 48 63)		
13 48 63 00-0013 EA 1/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-1).....	32.67	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0014 EA 3/16" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-2).....	43.27	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0015 EA 1/4" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-3).....	56.00	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0016 EA 3/8" Cable Diameter Seismic Cable Brace Swivel Anchor (Mason SCB-4).....	75.05	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0017 EA Seismic Solid Brace Swivel Anchor (Mason SSB-1).....	30.94	
Note: To be used with angle or channel.		
13 48 63 00-0018 EA Seismic Solid Brace Swivel Anchor (Mason SSB-2).....	40.27	
Note: To be used with angle or channel.		
13 48 63 00-0019 EA Seismic Solid Brace Swivel Anchor (Mason SSB-3).....	51.60	
Note: To be used with angle or channel.		
13 48 63 00-0020 EA Seismic Solid Brace Swivel Anchor (Mason SSB-4).....	68.26	
Note: To be used with angle or channel.		
13 48 63 00-0021 EA 1/8" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-1).....	36.60	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0022 EA 3/16" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-2).....	46.93	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0023 EA 1/4" Cable Diameter Seismic Cable Brace Hook Anchor (Mason SCBH-3).....	63.59	
Note: To be used with 7x19 stranded cable.		
13 48 63 00-0024 EA 1/8" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-1).....	60.93	
Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.		
13 48 63 00-0025 EA 3/16" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-2).....	83.92	
Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.		
13 48 63 00-0026 EA 1/4" Cable Diameter Seismic Cable Brace Vise Anchor (Mason SCBV-3).....	112.91	
Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.		
13 48 63 00-0027 EA Seismic Rod Clamp (Mason SRC-1).....	26.55	
Note: To be used on 3/8" through 5/8" rod. 1" x 1" x 1/4" Angle or Stiffener not included.		
13 48 63 00-0028 EA Seismic Rod Clamp (Mason SRC-1 1/2).....	31.89	
Note: To be used on 3/8" through 1" rod. 1-1/2" x 1-1/2" x 1/4" Angle or Stiffener not included.		
13 48 63 00-0029 EA Seismic Rod Clamp (Mason SRC-2).....	39.22	
Note: To be used on 3/8" through 1-1/4" rod. 2" x 2" x 1/4" Angle or Stiffener not included.		
13 48 63 00-0030 Seismic Restraints (13 48 63)		
13 48 63 00-0031 EA 1" x 1" Seismic Fastener, Gray, Drilled With 0.187 Diameter Hole.....	4.79	1.17
Note: Adhesive applied.		
13 48 63 00-0032 EA 1" x 1" Seismic Fastener, Gray, Adhesive Applied.....	3.62	0.58
13 48 63 00-0033 EA 1" x 2" Seismic Fastener, Gray, Drilled With (2) 0.187 Diameter Hole.....	6.25	1.46
Note: Adhesive applied.		
13 48 63 00-0034 EA 1" x 2" Seismic Fastener, Gray, Adhesive Applied.....	4.61	0.73
13 48 63 00-0035 EA 2" x 2" Seismic Fastener, Gray, Adhesive Applied.....	5.83	0.85
13 48 63 00-0036 EA 2" x 3" Seismic Fastener, Gray, Adhesive Applied.....	9.66	1.03
13 48 63 00-0037 LF 3/4" Wide Seismic Strap, Gray.....	4.24	0.88
13 48 63 00-0038 LF 1" Wide Seismic Strap, Gray.....	6.11	0.88
13 48 63 00-0039 EA 3/4" Wide x 4" Long Seismic Strap, Gray.....	2.09	0.58



Special Construction	13
Integrated Construction	13 40
Sound, Vibration, and Seismic Control	13 48

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 48 63 00-0040 EA 3/4" Wide x 12" Long Seismic Strap, Gray.....	9.17	1.76
13 48 63 00-0041 LF Seismic Chord, Black.....	2.65	0.88
13 48 63 00-0042 LF SAFELOK Seismic Fastener, Black.....	3.43	0.88

13 49 Radiation Protection (13 40)

13 49 13 Integrated X-Ray Shielding Assemblies (13 49)

13 49 13 00-0001 Lead Shielding (13 49 13)

13 49 13 00-0002 SF 1/16" Sheet Lead Shielding	38.99	7.03
13 49 13 00-0003 SF 1/8" Sheet Lead Shielding	65.11	7.61
13 49 13 00-0004 SF 1/4" Sheet Lead Shielding	114.50	8.19
13 49 13 00-0005 SF 1/2" Sheet Lead Shielding	217.22	10.54

13 49 16 Modular X-Ray Shielding Rooms (13 49)

13 49 16 00-0001 X-Ray Barriers, Modular (13 49 16)

Note: Panels mounted within framework for attaching to floor, wall or ceiling, upper portion is clear lead plastic window panels 48" high, lower portion is opaque leaded steel panels 36" high. Excludes structural supports.

13 49 16 00-0002 36" Wide x 84" High, 1-Section Barrier, Modular X-Ray Barriers (13 49 16 00-0001)

13 49 16 00-0003 EA 0.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High.....	5,668.57	157.58
13 49 16 00-0004 EA 0.8mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High.....	6,011.74	157.58
13 49 16 00-0005 EA 1.0mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High.....	6,212.03	189.10
13 49 16 00-0006 EA 1.5mm LE Panels 1-Section Modular X-Ray Barrier, 36" Wide x 84" High.....	6,623.83	189.10

13 49 16 00-0007 72" Wide x 84" High, 2-Section Barrier, Modular X-Ray Barriers (13 49 16 00-0001)

13 49 16 00-0008 EA 0.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	12,103.30	252.13
13 49 16 00-0009 EA 0.8mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	12,583.73	252.13
13 49 16 00-0010 EA 1.0mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	12,990.00	283.65
13 49 16 00-0011 EA 1.5mm LE Panels 2-Section Modular X-Ray Barrier, 72"W x 84"H.....	14,013.85	315.16

13 49 16 00-0012 108" Wide x 84" High, 3-Section Barrier, Modular X-Ray Barriers (13 49 16 00-0001)

13 49 16 00-0013 EA 0.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	18,337.76	315.16
13 49 16 00-0014 EA 0.8mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	19,229.99	315.16
13 49 16 00-0015 EA 1.0mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	19,699.22	378.19
13 49 16 00-0016 EA 1.5mm LE Panels 3-Section Modular X-Ray Barrier, 108"W x 84"H.....	21,134.81	409.71

13 49 16 00-0017 X-Ray Barriers, Mobile (13 49 16)

Note: Mounted within framework with casters on bottom, clear lead plastic window panels on upper portion, opaque on lower.

13 49 16 00-0018 30" Wide x 75" High, Mobile X-Ray Barriers (13 49 16 00-0017)

Note: Includes Framework

13 49 16 00-0019 EA 24" H Upper With 0.5mm LE, 48" H Lower With 0.8mm LE Mobile X-Ray Barriers.....	3,833.40	29.28
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13 49 16 00-0020 48" Wide x 75" High, Mobile X-Ray Barriers (13 49 16 00-0017)

Note: Includes Framework

13 49 16 00-0021 EA 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	6,784.64	29.28
13 49 16 00-0022 EA 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	8,157.31	29.28

13 49 16 00-0023 72" Wide x 75" High, Mobile X-Ray Barriers (13 49 16 00-0017)

Note: Includes Framework

13 49 16 00-0024 EA 36"H Upper With 0.5mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	8,020.04	29.28
13 49 16 00-0025 EA 36"H Upper With 1.0mm LE, 36"H Lower With 0.8mm LE Mobile X-Ray Barriers.....	10,147.67	29.28

13 49 19 Lead-Lined Materials (13 49)

13 49 19 16 Lead-Lined Drywall (13 49 19)

13 49 19 16-0001 Lead Lined Drywall (13 49 19 16)

13 49 19 16-0002 SF 1/32" Lead Lined 5/8" Fire Rated Drywall	20.78	1.53
13 49 19 16-0003 SF 1/16" Lead Lined 5/8" Fire Rated Drywall	36.30	1.84
13 49 19 16-0004 SF 1/8" Lead Lined 5/8" Fire Rated Drywall	65.78	2.21

END OF SECTION 13

13	13	Special Construction
	13 40	Integrated Construction
	13 49	Radiation Protection



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 Conveying Equipment

14 01 Operation and Maintenance of Conveying Equipment ⁽¹⁴⁾

14 01 20 Operation and Maintenance of Elevators ^(14 01)

14 01 20 71 Elevator Rehabilitation ^(14 01 20)

14 01 20 71-0001 Elevator Maintenance ^(14 01 20 71)

14 01 20 71-0002	EA	Regular Routine Elevator Inspection, Traction Up to 10 floors (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0003	EA	Regular Routine Elevator Inspection, Traction Over 10 floors (Sufficient for Issue of Certificate/Permit)	538.31	
14 01 20 71-0004	EA	Regular Routine Elevator Inspection, Hydraulic (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0005	EA	Regular Routine Elevator Inspection, Roped Hydraulic (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0006	EA	Regular Routine Elevator Inspection, Dumbwaiter/Cart Lifts (Sufficient for Issue of Certificate/Permit)	358.87	
14 01 20 71-0007	HR	Elevator Servicing - Hydraulic, Labor Only	176.52	
14 01 20 71-0008	HR	Elevator Servicing - Traction, Labor Only	353.05	
14 01 20 71-0009	EA	Annual Category 1 Test for Traction Up to 10 floors	1,282.62	
14 01 20 71-0010	EA	Annual Category 1 Test for Traction Over 10 floors	1,282.62	
14 01 20 71-0011	EA	Annual Category 1 Test for Hydraulic Elevator	1,282.62	
14 01 20 71-0012	EA	Annual Category 1 Test for Roped Hydraulic Elevator	1,282.62	
14 01 20 71-0013	EA	Annual Category 1 Test for Dumbwaiter/Cart Lifts	961.97	
14 01 20 71-0014	EA	Full Load Test for Traction Up to 10 floors	2,565.25	
14 01 20 71-0015	EA	Full Load Test for Traction Over 10 floors	2,565.25	
14 01 20 71-0016	EA	Full Load Test for Hydraulic Elevator	2,565.25	
14 01 20 71-0017	EA	Full Load Test for Roped Hydraulic Elevator	2,565.25	
14 01 20 71-0018	EA	Full Load Test for Dumbwaiter/Cart Lifts	1,923.93	
14 01 20 71-0019	EA	Acceptance Test for Traction Up to 10 floors	2,032.40	
14 01 20 71-0020	EA	Acceptance Test for Traction Over 10 floors	2,032.40	
14 01 20 71-0021	EA	Acceptance Test for Hydraulic Elevator	2,032.40	
14 01 20 71-0022	EA	Acceptance Test for Roped Hydraulic Elevator	2,032.40	
14 01 20 71-0023	EA	Acceptance Test for Dumbwaiter/Cart Lifts	2,032.40	

14 01 20 71-0024 Elevator Modernization ^(14 01 20 71)

14 01 20 71-0025	EA	5" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	29,590.98	7,947.39
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	7,931.01	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	7,626.18	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0026	EA	6" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	33,398.58	9,603.09
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	8,006.53	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	8,009.18	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0027	EA	8" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	44,323.08	13,245.64
		Note: Includes replacing existing piston/cylinder, 12 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	9,214.85	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	9,872.18	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0028	EA	Removal And Replacement Of Multi-Port Controller Valve	4,815.78	
14 01 20 71-0029	EA	5 Gallon Container Of Hydraulic Oil For Elevator Modernization	47.96	
14 01 20 71-0030	EA	55 Gallon Container Of Hydraulic Oil For Elevator Modernization	475.40	
14 01 20 71-0031	SET	Car Roller Guide Assembly, Set Of Four	3,548.60	662.29
		Note: Includes cover plate.		
14 01 20 71-0032	SET	CWT Roller Guide Assembly, Set Of Four	3,059.23	662.29
		Note: Includes cover plate.		
14 01 20 71-0033	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Baked Enamel Finish	7,001.99	
		Note: Excludes buildback.		
14 01 20 71-0034	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Satin Stainless Finish	7,606.15	
		Note: Excludes buildback.		
14 01 20 71-0035	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Baked Enamel Finish	7,390.16	
		Note: Excludes buildback.		
14 01 20 71-0036	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Satin Stainless Finish	7,994.32	
		Note: Excludes buildback.		
14 01 20 71-0037	SF	Cab Flooring, Epoxy Aggregate	79.44	18.93
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0038	SF	Cab Flooring, Aluminum Diamond Plate	68.71	18.93
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0039	EA	Solid State Starting (Soft Start)	5,762.85	662.29
14 01 20 71-0040	EA	Pump Unit (Tank, Valve, Oil, Motor And Victaulic Fittings)	20,507.04	3,311.42
14 01 20 71-0041	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Side Slide (GAL)	2,180.18	662.29
14 01 20 71-0042	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Side Slide (GAL)	445.93	331.14
14 01 20 71-0043	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Side Slide (GAL)	399.11	331.14
14 01 20 71-0044	EA	Hoistway Door Interlock Set, Single Speed Side Slide (GAL)	548.64	331.14
14 01 20 71-0045	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Center Opening (GAL)	2,417.31	662.29
14 01 20 71-0046	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Center Opening (GAL)	560.72	331.14
14 01 20 71-0047	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Center Opening (GAL)	399.11	331.14

14 Conveying Equipment
14 01 Operation and Maintenance of Conveying Equipment
14 01 20 Operation and Maintenance of Elevators



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0048 EA Hoistway Door Interlock Set, Single Speed Center Opening (GAL).....	655.88	331.14
14 01 20 71-0049 EA Fire Service Key Switch Contoller.....	3,361.31	662.29
14 01 20 71-0050 EA ADA Telephone (Rath Microtech).....	1,605.13	331.14
14 01 20 71-0051 EA Car Door Operator With ADA Buzzer, Single Speed Side Slide (GAL).....	7,553.34	1,324.56
14 01 20 71-0052 EA Car Door Operator With ADA Buzzer, Single Speed Center Opening (GAL).....	7,749.69	1,324.56
14 01 20 71-0053 EA Car Door Safety Edge (Infrared Proximity Type Edge).....	1,667.06	331.14
14 01 20 71-0054 EA Car Operating Panel (ADA, Fire, Position, Chime).....	7,598.65	1,324.56
14 01 20 71-0055 EA Car Position LED Indicator And Cover Plate, Stainless Steel.....	2,126.22	331.14
14 01 20 71-0056 EA Car Traveling Lanterns With Audible Signal.....	1,446.54	331.14
14 01 20 71-0057 EA Hoistway Door Jamb Floor Tags (Braille).....	219.94	165.57
14 01 20 71-0058 EA Lobby Vandal Resistant Call Station.....	1,371.02	331.14
14 01 20 71-0059 LF Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	17.46	
Note: Excludes Removal and Replacement of Material. See CSI section 14 01 20 71-0060 for Removal and Replacement of Traveling Cable.		
14 01 20 71-0060 EA Removal And Replacement Of Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	5,298.26	2,649.13
Note: Excludes Traveling Cable material. See CSI section 14 01 20 71-0059 for Traveling Cable material.		
14 01 20 71-0061 LF Governor Cable.....	1.36	
Note: Removal and Replacement of Governor Cable is part of Traveling Cable Removal and Replacement.		
14 01 20 71-0062 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Plastic Laminate - Hang On Panels).....	5,007.65	662.29
14 01 20 71-0063 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Rigid Stainless Steel - Hang On Panels).....	7,726.37	662.29
14 01 20 71-0064 EA Removal And Replacement Of Governor.....	4,735.78	662.29
14 01 20 71-0065 EA Removal And Replacement Of Car Station.....	7,598.65	1,324.56
14 01 20 71-0066 EA Removal And Replacement Of Telephone.....	1,605.13	331.14
14 01 20 71-0067 EA Removal And Replacement Of Lanterns (Hall).....	1,522.06	331.14
14 01 20 71-0068 EA Hall Call Buttons, Vandal Resistant.....	1,295.50	331.14
14 01 20 71-0069 EA Hall Traveling Lanterns With Audible Signal.....	1,522.06	331.14
14 01 20 71-0070 EA Add Raised Character (Braille) Signage To Control Panel.....	183.24	165.57
14 01 20 71-0071 EA New Microprocessor Based Contoller (Non-Proprietary).....	36,644.99	5,298.26
14 01 20 71-0072 EA New Steel Shell And Canopy (Excludes Plastic Panels), For 5' x 7' Cab.....	23,051.39	5,298.26
14 01 20 71-0073 EA New Steel Shell, Canopy And Platform (Excludes Plastic Laminate), For 5' x 7' Cab.....	35,901.64	5,298.26
14 01 20 71-0074 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangment), Baked Enamel.....	2,893.09	
14 01 20 71-0075 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangment), Baked Enamel.....	3,044.13	
14 01 20 71-0076 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangment), Stainless Steel.....	3,210.27	
14 01 20 71-0077 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangment), Stainless Steel.....	3,391.52	
14 01 20 71-0078 EA Elevator Pit Ladder, Steel.....	1,748.62	331.14
Note: Labor cost is for bolting to concrete pit wall.		
14 01 20 71-0079 EA New Steel Shell, Canopy, Platform, Standard Cab Plastic Laminate, For 5' x 7' Cab.....	44,592.37	5,298.26
14 01 20 71-0080 LF Removal And Replacement Of Hoisting Cable, 3/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....	133.82	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0081 LF Removal And Replacement Of Hoisting Cable, 1/2" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 6.0, EHS Traction Steel - 9.7.....	134.35	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0082 LF Removal And Replacement Of Hoisting Cable, 5/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4.....	134.83	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0083 EA Hydraulic Leak Detector And Alarm in Elevator Pit (Stancor Oil Minder - 0.5 HP).....	8,070.74	662.29
14 01 20 71-0084 EA 6" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,346.21	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0085 EA 8" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,421.73	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0086 EA 10" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,497.25	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0087 EA 12" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,587.87	662.29
Note: Cladding typically done by metal company.		
14 01 20 71-0088 EA "Rope Gripper" With Pumping Unit For Use On 4-7/8" Maximum Out to Out Of Cable.....	7,273.25	662.29
14 01 20 71-0089 EA "Rope Gripper" With Pumping Unit For Use On 6" Maximum Out to Out Of Cable.....	7,273.25	662.29
14 01 20 71-0090 EA "Rope Gripper" With Pumping Unit For Use On 10" Maximum Out to Out Of Cable.....	10,294.05	662.29
14 01 20 71-0091 EA "Rope Gripper" With Pumping Unit For Use On 11-1/2" Maximum Out to Out Of Cable.....	11,804.45	662.29
14 01 20 71-0092 EA 60 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,214.71	167.98
14 01 20 71-0093 EA 100 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,383.31	201.58
14 01 20 71-0094 EA 200 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	4,483.76	235.17
14 01 20 71-0095 EA Aluminum Handrail Spacers With Set Screw.....	196.94	165.57
14 01 20 71-0096 EA Bronze Handrail Spacers With Set Screw.....	201.12	165.57
14 01 20 71-0097 LF 1/2" x 2" Round Stainless Steel Elevator Handrail.....	133.05	38.96
14 01 20 71-0098 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	128.13	38.96
14 01 20 71-0099 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	151.14	38.96
14 01 20 71-0100 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	166.73	38.96
14 01 20 71-0101 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	189.93	38.96
14 01 20 71-0102 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	154.04	38.96
14 01 20 71-0103 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	174.53	38.96
14 01 20 71-0104 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	268.50	38.96
14 01 20 71-0105 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	301.01	38.96
14 01 20 71-0106 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	127.34	38.96
14 01 20 71-0107 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	128.59	38.96
14 01 20 71-0108 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	162.62	38.96
14 01 20 71-0109 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	152.59	38.96
14 01 20 71-0110 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	163.29	38.96
14 01 20 71-0111 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	203.18	38.96
14 01 20 71-0112 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	157.67	38.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0113 LF 3/8" x 2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	161.11	38.96
14 01 20 71-0114 LF 3/8" x 2-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	266.06	38.96
14 01 20 71-0115 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Mirror Finish.....	176.52	38.96
14 01 20 71-0116 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	266.72	38.96
14 01 20 71-0117 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish.....	301.01	38.96

14 01 30 Operation and Maintenance of Escalators and Moving Walks ⁽¹⁴⁾

14 01 30 71 Escalators and Moving Walks Rehabilitation ^(14 01 30)

14 01 30 71-0001 Maintenance ^(14 01 30 71)

14 01 30 71-0002 EA Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit).....	755.68
14 01 30 71-0003 HR Escalator Servicing, Labor Only.....	176.52
14 01 30 71-0004 EA Acceptance Test Of Escalators And Moving Walks.....	4,156.27

14 01 30 71-0005 Modernization ^(14 01 30 71)

14 01 30 71-0006 EA Removal And Replacement Of 28" Wide Escalator Stair Tread.....	1,844.33
14 01 30 71-0007 EA Removal And Replacement Of 36" Wide Escalator Stair Tread.....	1,975.96
14 01 30 71-0008 EA Removal And Replacement Of 48" Wide Escalator Stair Tread.....	2,072.56
14 01 30 71-0009 EA Removal And Replacement Of 54" Wide Escalator Stair Tread.....	2,235.11
14 01 30 71-0010 LF Removal And Replacement Of Sliding Handrail.....	173.18

14 20 Elevators ⁽¹⁴⁾

Note: Excludes final electrical work or shaft walls.

14 21 Electric Traction Elevators ^(14 20)

14 21 13 Electric Traction Freight Elevators ^(14 21)

14 21 13 00-0001 Electric Traction Freight Elevators ^(14 21 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings with power doors.

14 21 13 00-0002 EA Electric Traction Freight Elevator, 4,000 LB x 200 FPM.....	440,993.39
For Each Opening With Bonderized Steel Door, Add	200.00
For Each Opening With Stainless Steel Doors, Add	500.00
For Each Opening With Two Speed Doors, Add	500.00
For Custom Plastic Laminated Cab Interiors, Add	4,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
For Stainless Steel Cab Interior, Add	8,000.00
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	1,666.00
For Class "C-2" Loading, Add	2,000.00
For Class "C-3" Loading, Add	2,736.00
For Removal Of Existing Stop, Add	8,297.77
For Each Additional Stop, Add	34,758.45
For Each Floor < 6 Stops, Deduct	-29,558.29
For Each Additional 50 FPM, Add	6,000.00
For Removal Of Existing Elevator, Add	41,488.84
14 21 13 00-0003 EA Electric Traction Freight Elevator, 5,000 LB x 200 FPM.....	472,335.70
For Each Opening With Bonderized Steel Door, Add	200.00
For Each Opening With Stainless Steel Doors, Add	500.00
For Each Opening With Two Speed Doors, Add	500.00
For Custom Plastic Laminated Cab Interiors, Add	4,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
For Stainless Steel Cab Interior, Add	8,000.00
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	1,666.00
For Class "C-2" Loading, Add	2,000.00
For Class "C-3" Loading, Add	2,736.00
For Removal Of Existing Stop, Add	8,297.77
For Each Additional Stop, Add	34,758.45
For Each Floor < 6 Stops, Deduct	-29,558.29
For Each Additional 50 FPM, Add	6,000.00
For Removal Of Existing Elevator, Add	41,488.84
14 21 13 00-0004 EA Electric Traction Freight Elevator, 6,000 LB x 200 FPM.....	503,678.01
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	3,332.00
For Class "C-2" Loading, Add	4,000.00
For Class "C-3" Loading, Add	5,544.00
For Custom Plastic Laminated Cab Interiors, Add	5,000.00
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00
For Stainless Steel Cab Interior, Add	9,000.00
For Removal Of Existing Stop, Add	8,297.77
For Each Additional Stop, Add	35,744.42
For Each Additional 50 FPM, Add	6,000.00
For Each Opening With Bonderized Steel Door, Add	300.00
For Each Opening With Stainless Steel Doors, Add	600.00
For Each Opening With Two Speed Doors, Add	700.00
For Removal Of Existing Elevator, Add	41,488.84
For Each Floor < 6 Stops, Deduct	-30,558.29

14 Conveying Equipment

14 20 Elevators

14 21 Electric Traction Elevators



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21	13 00-0005	EA	Electric Traction Freight Elevator, 7,000 LB x 200 FPM	519,610.90	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Class "C-1" Loading, Add</i>	3,332.00	
			<i>For Class "C-2" Loading, Add</i>	4,000.00	
			<i>For Class "C-3" Loading, Add</i>	5,544.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	9,000.00	
			<i>For Removal Of Existing Stop, Add</i>	8,297.77	
			<i>For Each Additional Stop, Add</i>	35,744.42	
			<i>For Each Additional 50 FPM, Add</i>	6,000.00	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	300.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	600.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	700.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,488.84	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,558.29	
14 21	13 00-0006	EA	Electric Traction Freight Elevator, 8,000 LB x 200 FPM	535,543.13	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,297.77	
			<i>For Each Additional Stop, Add</i>	35,744.42	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,488.84	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,558.29	
14 21	13 00-0007	EA	Electric Traction Freight Elevator, 10,000 LB x 200 FPM	554,481.57	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,297.77	
			<i>For Each Additional Stop, Add</i>	35,744.42	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,488.84	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,558.29	
14 21	13 00-0008	EA	Electric Traction Freight Elevator, 12,000 LB x 200 FPM	569,794.50	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	10,000.00	
			<i>For Class "C-1" Loading, Add</i>	6,666.00	
			<i>For Class "C-2" Loading, Add</i>	8,000.00	
			<i>For Class "C-3" Loading, Add</i>	10,944.00	
			<i>For Removal Of Existing Stop, Add</i>	8,297.77	
			<i>For Each Additional Stop, Add</i>	35,744.42	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	400.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	700.00	
			<i>For Each Opening With Two Speed Doors, Add</i>	800.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	10,000.00	
			<i>For Removal Of Existing Elevator, Add</i>	41,488.84	
			<i>For Each Floor < 6 Stops, Deduct</i>	-30,558.29	

14 21 23 Electric Traction Passenger Elevators (14 21)

14 21 23 13 Machine Room Electric Traction Passenger Elevators (14 21 23)

14 21 23 13-0001 Electric Traction Passenger Elevators (14 21 23 13)

Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings.

14 21	23 13-0002	EA	Electric Traction Passenger Elevator, 2,000 LB x 200 FPM	349,932.05	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	200.00	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	500.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,000.00	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,000.00	
			<i>For Stainless Steel Cab Interior, Add</i>	8,000.00	
			<i>For Each Additional 50 FPM, Add</i>	1,000.00	
			<i>For Removal Of Existing Stop, Add</i>	4,151.69	
			<i>For Each Additional Stop, Add</i>	34,758.45	
			<i>For Each Floor < 6 Stops, Deduct</i>	-20,379.22	
			<i>For Removal Of Existing Elevator, Add</i>	31,137.68	



Conveying Equipment	14
Elevators	14 20
Electric Traction Elevators	14 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21 23 13-0003 EA Electric Traction Passenger Elevator, 2,500 LB x 200 FPM	359,061.21	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0004 EA Electric Traction Passenger Elevator, 3,000 LB x 200 FPM	366,488.75	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0005 EA Electric Traction Passenger Elevator, 3,500 LB x 200 FPM	368,660.70	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0006 EA Electric Traction Passenger Elevator, 4,000 LB x 200 FPM	375,479.63	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0007 EA Electric Traction Passenger Elevator, 4,500 LB x 200 FPM	382,115.20	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	
14 21 23 13-0008 EA Electric Traction Passenger Elevator, 5,000 LB x 200 FPM	388,978.69	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Stop, Add	4,151.69	
For Each Additional Stop, Add	34,758.45	
For Each Floor < 6 Stops, Deduct	-20,379.22	
For Removal Of Existing Elevator, Add	31,137.68	

14 24 Hydraulic Elevators (14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

14 24 13 Hydraulic Freight Elevators (14 24)

14 24 13 00-0001 Hydraulic Freight Elevators (14 24 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings with power doors.

14 Conveying Equipment

14 20 Elevators

14 24 Hydraulic Elevators



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24	13 00-0002	EA	Hydraulic Freight Elevator, 3,000 LB x 50 FPM	195,613.52	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,297.77	
14 24	13 00-0003	EA	Hydraulic Freight Elevator, 3,500 LB x 50 FPM	201,904.63	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,297.77	
14 24	13 00-0004	EA	Hydraulic Freight Elevator, 4,000 LB x 50 FPM	208,728.98	
			For Each Additional Stop, Add	20,225.64	
			For 2 Stops, Deduct	-15,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Class "C-1" Loading, Add	1,666.00	
			For Class "C-2" Loading, Add	2,000.00	
			For Class "C-3" Loading, Add	2,736.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,297.77	
14 24	13 00-0005	EA	Hydraulic Freight Elevator, 5,000 LB x 50 FPM	213,804.98	
			For Each Opening With Bonderized Steel Door, Add	200.00	
			For Each Opening With Stainless Steel Doors, Add	500.00	
			For Each Opening With Two Speed Doors, Add	500.00	
			For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
			For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
			For Stainless Steel Cab Interior, Add	8,000.00	
			For Each Additional 50 FPM, Add	2,000.00	
			For Elevator With Manual Door, Deduct	-10,000.00	
			For Each Additional Stop, Add	21,225.64	
			For 2 Stops, Deduct	-16,631.62	
			Note: Would be holeless hydraulic at 2 stops.		
			For Class "C-1" Loading, Add	3,332.00	
			For Class "C-2" Loading, Add	4,000.00	
			For Class "C-3" Loading, Add	5,544.00	
			For Well Hole Drilling (12" Diameter Hole), Add	170.00	
			Note: Includes Labor and Equipment.		
			For 12" Steel Liner, Add	90.00	
			Note: Liner for Hydraulic Elevator Well Hole if necessary.		
			For Removal Of Existing Stop, Add	8,297.77	



Conveying Equipment	14
Elevators	14 20
Hydraulic Elevators	14 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0006 EA Hydraulic Freight Elevator, 6,000 LB x 50 FPM	226,034.43	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Each Additional 50 FPM, Add	10,000.00	
For Class "C-1" Loading, Add	6,666.00	
For Class "C-2" Loading, Add	8,000.00	
For Class "C-3" Loading, Add	10,944.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,297.77	
14 24 13 00-0007 EA Hydraulic Freight Elevator, 7,000 LB x 50 FPM	231,895.31	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Each Additional 50 FPM, Add	10,000.00	
For Class "C-1" Loading, Add	6,666.00	
For Class "C-2" Loading, Add	8,000.00	
For Class "C-3" Loading, Add	10,944.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,297.77	
14 24 13 00-0008 EA Hydraulic Freight Elevator, 8,000 LB x 50 FPM	240,801.88	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Each Additional 50 FPM, Add	11,000.00	
For Class "C-1" Loading, Add	8,330.00	
For Class "C-2" Loading, Add	10,000.00	
For Class "C-3" Loading, Add	13,680.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,297.77	
14 24 13 00-0009 EA Hydraulic Freight Elevator, 10,000 LB x 50 FPM	247,165.90	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,297.77	
For Each Additional 50 FPM, Add	12,000.00	
For Class "C-1" Loading, Add	11,079.00	
For Class "C-2" Loading, Add	13,300.00	
For Class "C-3" Loading, Add	18,194.00	

14 Conveying Equipment**14 20 Elevators****14 24 Hydraulic Elevators**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0010 EA Hydraulic Freight Elevator, 12,000 LB x 50 FPM	258,184.31	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	21,225.64	
For 2 Stops, Deduct	-16,631.62	
Note: Would be holeless hydraulic at 2 stops.		
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	8,297.77	
For Each Additional 50 FPM, Add	12,000.00	
For Class "C-1" Loading, Add	11,079.00	
For Class "C-2" Loading, Add	13,300.00	
For Class "C-3" Loading, Add	18,194.00	
14 24 13 00-0011 Hydraulic Elevators Piston Drilling (1424 13)		
14 24 13 00-0012 VLF Up To 6" Diameter Piston Drilling	86.88	
Note: Includes casing.		
14 24 13 00-0013 VLF 8" To 10" Diameter Piston Drilling.....	103.46	
Note: Includes casing.		
14 24 23 Hydraulic Passenger Elevators (14 24)		
14 24 23 00-0001 Hydraulic Passenger Elevators (1424 23)		
Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings.		
14 24 23 00-0002 EA Hydraulic Passenger Elevator, 2,100 LB x 100 FPM	137,993.00	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0003 EA Hydraulic Passenger Elevator, 2,500 LB x 100 FPM	140,531.00	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0004 EA Hydraulic Passenger Elevator, 3,000 LB x 100 FPM	142,275.88	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		



Conveying Equipment	14
Elevators	14 20
Hydraulic Elevators	14 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0005 EA Hydraulic Passenger Elevator, 3,500 LB x 100 FPM	148,953.44	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0006 EA Hydraulic Passenger Elevator, 4,000 LB x 100 FPM	151,699.46	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0007 EA Hydraulic Passenger Elevator, 4,500 LB x 100 FPM	155,411.29	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0008 EA Hydraulic Passenger Elevator, 5,000 LB x 100 FPM	159,164.25	
For Each Additional Stop, Add	20,225.64	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	20,717.24	
For Removal Of Existing Stop, Add	4,151.69	
For 2 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0009 Twin Jack Holeless Hydraulic Passenger Elevator ^(14 24 23)		
Note: Baked enamel shaft doors and plastic laminated trimmed cab. Excludes flooring, shaft construction/alterations, pit or mechanical room construction. Connect to established utilities.		
14 24 23 00-0010 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 3 Stops, 3 Openings	78,924.91	9,763.56
14 24 23 00-0011 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 2 Stops, 2 Openings	59,878.90	8,341.96
14 26 Limited-Use/Limited-Application Elevators ^(14 20)		
14 26 00 00-0001 Small Elevators (LULA) ^(14 26)		
14 26 00 00-0002 EA Small Elevators (LULA), 1,400 LB x 30 FPM	78,312.75	
Note: 3 phase, automatic operation, includes cab interior, telephone box and telephone. 2 stops and 12 feet of rise.		
For Each Additional Stop, Add	17,223.33	
For Removal Of Existing Elevator, Add	6,223.33	
14 30 Escalators and Moving Walks ⁽¹⁴⁾		

14 Conveying Equipment
14 30 Escalators and Moving Walks
 14 31 Escalators



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 31 Escalators ^(14 30)

14 31 00 00-0001 **Stainless Steel Escalator Construction** ^(14 31)

Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.

14 31 00 00-0002	EA		Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height.....	139,748.60	12,744.64
14 31 00 00-0003	EA		Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height.....	155,012.26	15,061.86
14 31 00 00-0004	EA		Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height.....	168,861.80	17,379.07
14 31 00 00-0005	EA		Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height.....	186,853.08	20,854.88
14 31 00 00-0006	EA		Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height.....	206,268.70	23,172.08
14 31 00 00-0007	EA		Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height.....	147,750.71	13,555.67
14 31 00 00-0008	EA		Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height.....	164,213.10	16,220.46
14 31 00 00-0009	EA		Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height.....	178,056.35	18,537.67
14 31 00 00-0010	EA		Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height.....	200,904.30	23,287.94
14 31 00 00-0011	EA		Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height.....	216,376.05	25,025.86
14 31 00 00-0012	EA		Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height.....	156,138.31	14,366.70
14 31 00 00-0013	EA		Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height.....	174,089.98	17,379.07
14 31 00 00-0014	EA		Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height.....	187,626.53	19,696.27
14 31 00 00-0015	EA		Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height.....	215,950.87	24,562.41
14 31 00 00-0016	EA		Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height.....	229,162.39	26,879.62
14 31 00 00-0017	EA		Escalator Fire Shutter Fusible Link.....	20,418.85	463.44

14 32 Moving Walks ^(14 30)

14 32 00 00-0001 **Moving Sidewalks** ^(14 32)

Note: Prices are medians. Includes safety rails.

14 32 00 00-0002	LF		Moving Sidewalks, 28" Wide.....	1,494.90	278.07
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	232.24	
14 32 00 00-0003	LF		Moving Sidewalks, 36" Wide.....	1,983.97	283.86
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	328.68	
14 32 00 00-0004	LF		Moving Sidewalks, 48" Wide.....	2,233.64	295.45
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	375.83	
14 32 00 00-0005	LF		Moving Sidewalks, 54" Wide.....	2,565.38	320.47
			<i>For Each LF Of Ramp Or Sloped Sections, Add</i>	436.17	

14 40 Lifts ⁽¹⁴⁾

14 42 Wheelchair Lifts ^(14 40)

14 42 13 Inclined Wheelchair Lifts ^(14 42)

14 42 13 00-0001 **Chair Lift-Stair Climber** ^(14 42 13)

Note: Includes landing, rails, lifting device and gates.

14 42 13 00-0002	EA		Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity.....	5,663.75	566.76
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Note: Includes top and bottom call button, safety chair, track, and power unit.

14 42 16 Vertical Wheelchair Lifts ^(14 42)

14 42 16 00-0001 **Wheelchair Lift (Shorty)** ^(14 42 16)

14 42 16 00-0002	EA		36" Vertical Travel Wheelchair Platform Scissor Lift.....	8,381.62	377.85
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0003	EA		42" Vertical Travel Wheelchair Platform Scissor Lift.....	8,885.42	503.79
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0004	EA		70" Vertical Travel Wheelchair Platform Scissor Lift.....	11,943.21	629.74
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0005	EA		84" Vertical Travel Wheelchair Platform Scissor Lift.....	13,220.21	629.74
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			<i>For 2,000 LB Capacity, Add</i>	600.00	
			<i>For 3,000 LB Capacity, Add</i>	1,000.00	
			<i>For 4,000 LB Capacity, Add</i>	1,500.00	
			<i>For Accordion Safety Skirt, Add</i>	998.00	
			<i>For Removable Handrails, Add</i>	100.00	
			<i>For Power Operated Ramp, Add</i>	885.00	
14 42 16 00-0006	EA		18' Travel Wheelchair Incline Lift.....	15,154.87	629.74

Note: 500 LB capacity, interior installation.



Conveying Equipment		14
Lifts		14 40
Wheelchair Lifts		14 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 90 Other Conveying Equipment ⁽¹⁴⁾

14 91 Facility Chutes ^(14 90)

14 91 82 Trash Chutes ^(14 91)

14 91 82 00-0001 Trash Chutes ^(14 91 82)

14 91 82 00-0002	LF	18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	28.48	5.25
		<i>For Aluminum, Add</i>	1.85	
		<i>For Stainless Steel, Add</i>	6.46	
14 91 82 00-0003	LF	24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	35.88	5.25
		<i>For Aluminum, Add</i>	2.50	
		<i>For Stainless Steel, Add</i>	8.74	
14 91 82 00-0004	LF	30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	39.48	6.56
		<i>For Aluminum, Add</i>	2.77	
		<i>For Stainless Steel, Add</i>	9.69	
14 91 82 00-0005	LF	36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	58.39	6.56
		<i>For Aluminum, Add</i>	4.56	
		<i>For Stainless Steel, Add</i>	15.96	
14 91 82 00-0006	EA	Trash Chutes, Hopper	640.76	36.73
		<i>For Aluminum, Add</i>	56.68	
		<i>For Stainless Steel, Add</i>	198.39	
14 91 82 00-0007	EA	Trash Chutes, Skylight.....	341.77	72.14
		<i>For Aluminum, Add</i>	19.72	
		<i>For Stainless Steel, Add</i>	69.01	
14 91 82 00-0008	EA	Trash Chutes, Sprinkler Unit At Top	252.56	78.69
		<i>For Aluminum, Add</i>	8.63	
		<i>For Stainless Steel, Add</i>	30.19	
14 91 82 00-0009	EA	Trash Chutes, Sprinkler Unit At Intake Hopper.....	70.23	27.54
		<i>For Aluminum, Add</i>	1.48	
		<i>For Stainless Steel, Add</i>	5.18	
14 91 82 00-0010	EA	Refuse Type Bottom Storage Hopper Unit	572.64	98.37
		<i>For Aluminum, Add</i>	36.48	
		<i>For Stainless Steel, Add</i>	127.66	
14 91 82 00-0011	EA	Hopper Doors	1,220.38	66.34

14 92 Pneumatic Tube Systems ^(14 90)

14 92 00 00-0001 Pneumatic Message Tube Station ^(14 92)

Note: Twin tube, two or more stations, conventional

14 92 00 00-0002	LF	2-1/2" Tube With Bracketing.....	45.81	15.34
14 92 00 00-0003	LF	3" Tube With Bracketing	55.34	20.65
14 92 00 00-0004	LF	4" Tube With Bracketing	62.07	18.88
14 92 00 00-0005	LF	6" Tube With Bracketing	75.12	23.60
14 92 00 00-0006	LF	4" x 7" Oval Tube With Bracketing.....	78.66	25.38
14 92 00 00-0007	EA	Blower Assembly	6,749.23	472.03
14 92 00 00-0008	EA	Receiving Station, Round Or Oval.....	648.86	125.68
14 92 00 00-0009	EA	Multi-Sided Dispatching Station, 3 Carrier	2,154.11	177.01
14 92 00 00-0010	EA	Laboratory Receiving Station, Round Or Oval.....	1,520.19	159.31
14 92 00 00-0011	EA	2-Way Diverter Station.....	2,684.08	177.01
14 92 00 00-0012	EA	3-Way Diverter Station.....	3,428.40	206.51
14 92 00 00-0013	EA	4-Way Diverter Station.....	4,117.89	236.01

END OF SECTION 14

14

14 Conveying Equipment

14 90 Other Conveying Equipment

14 92 Pneumatic Tube Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 Fire Suppression

21 01 Operation and Maintenance of Fire Suppression ⁽²¹⁾

21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems ^(21 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

21 01 10 91 Water-Based Fire-Suppression Systems Restoration ^(21 01 10)

21 01 10 91-0001 Relocate Sprinkler Head And Branch Piping ^(21 01 10 91)

21 01 10 91-0002	EA	Relocate Existing Sprinkler Head And Branch Piping.....	81.02	
Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.				

21 01 10 91-0003 Sprinkler Upgrades ^(21 01 10 91)

21 01 10 91-0004	LF	Purging Existing Lines Of Water.....	0.70	
21 01 10 91-0005	LF	Refill Existing Lines With Water.....	0.85	

21 01 30 Operation and Maintenance of Fire-Suppression Equipment ^(21 01)

21 01 30 91 Fire-Suppression Equipment Restoration ^(21 01 30)

21 01 30 91-0001 Inspection And Recharge ^(21 01 30 91)

21 01 30 91-0002	EA	Inspection, CO2, Carbon Dioxide	290.33	
21 01 30 91-0003	LB	Refill/Recharge, CO2, Carbon Dioxide	2.33	
21 01 30 91-0004	EA	Inspection, Halon 1301	290.33	
21 01 30 91-0005	LB	Refill/Recharge, Halon 1301	56.01	
21 01 30 91-0006	EA	Inspection, WC, Wet Chemical	175.55	
21 01 30 91-0007	GAL	Refill/Recharge, WC, Wet Chemical.....	52.51	
21 01 30 91-0008	EA	Inspection, DC, Dry Chemical.....	175.55	
21 01 30 91-0009	LB	Refill/Recharge, DC, Dry Chemical.....	4.67	
21 01 30 91-0010	EA	Hydrostatic Testing, All Sizes, All Agents	54.02	
See CSI section 23 05 93 00-0046 for testing existing piping systems.				
21 01 30 91-0011	EA	Disarm/Arm System.....	94.53	

21 05 Common Work Results for Fire Suppression ⁽²¹⁾

21 05 13 Common Motor Requirements for Fire-Suppression Equipment ^(21 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

21 05 16 Expansion Fittings and Loops for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

21 05 19 Meters and Gages for Fire-Suppression Systems ^(21 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

21 05 19 00-0001 Fire Sprinkler System Water Pressure Gauge ^(21 05 19)

21 05 19 00-0002	EA	2" Diameter Dial, 0-200 PSI, Water Pressure Gauge	49.85	15.77
Note: For fire sprinkler systems				
21 05 19 00-0003	EA	2-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	51.35	15.77
Note: For fire sprinkler systems				
21 05 19 00-0004	EA	3" Diameter Dial, 0-300 PSI, Water Pressure Gauge	58.36	15.77
Note: For fire sprinkler systems				
21 05 19 00-0005	EA	3-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	61.24	15.77
Note: For fire sprinkler systems				
21 05 19 00-0006	EA	4" Diameter Dial, 0-300 PSI, Water Pressure Gauge	64.12	15.77
Note: For fire sprinkler systems				

21 05 19 00-0007 Fire Service Meter Cast Iron Housing ^(21 05 19)

21 05 19 00-0008	EA	3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	4,314.05	220.45
For >10 To 25, Deduct			-215.70	
For >25, Deduct			-619.52	
21 05 19 00-0009	EA	4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	8,759.14	369.57
For >10 To 25, Deduct			-437.96	
For >25, Deduct			-1,267.56	
21 05 19 00-0010	EA	6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	11,803.73	468.20
For >10 To 25, Deduct			-590.19	
For >25, Deduct			-1,711.82	

21 Fire Suppression**21 05 Common Work Results for Fire Suppression****21 05 19 Meters and Gages for Fire-Suppression Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 05 19 00-0011 EA 8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	15,387.60	598.27
For >10 To 25, Deduct	-769.38	
For >25, Deduct	-2,233.82	
21 05 19 00-0012 EA 10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	21,634.44	728.32
For >10 To 25, Deduct	-1,081.72	
For >25, Deduct	-3,154.13	

21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping

(21 05)

See CSI section 23 05 23 00-0000 for valves.

21 05 23 00-0001 TESTanDRAIN® Valve

(21 05 23)

21 05 23 00-0002 EA 1/4" 3-Way Globe Valve With 1/4" NPT Test Port (AGF 7600).....	209.64	18.18
21 05 23 00-0003 EA 1" Threaded TESTanDRAIN® Valve (AGF 1000).....	238.22	21.97
21 05 23 00-0004 EA 1-1/4" Threaded TESTanDRAIN® Valve (AGF 1000).....	292.26	27.76
21 05 23 00-0005 EA 1-1/2" Threaded TESTanDRAIN® Valve (AGF 1000).....	444.97	32.06
21 05 23 00-0006 EA 2" Threaded TESTanDRAIN® Valve (AGF 1000).....	471.88	37.87
21 05 23 00-0007 EA 1" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	326.06	21.97
21 05 23 00-0008 EA 1-1/4" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	379.23	27.76
21 05 23 00-0009 EA 1-1/2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	534.60	32.06
21 05 23 00-0010 EA 2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	563.89	37.87

21 05 29 Hangers and Supports for Fire-Suppression Piping and Equipment

(21 05)

See CSI section 23 05 29 00-0000 for hangers and supports.

21 05 48 Vibration and Seismic Controls for Fire-Suppression Piping and Equipment

(21 05)

21 05 48 13**Vibration Controls for Fire-Suppression Piping and Equipment**(21 05 48)
See CSI section 23 05 48 13-0000 for vibration and seismic control.**21 05 53 Identification for Fire-Suppression Piping and Equipment**

(21 05)

See CSI section 23 05 53 00-0000 for identification.

21 07 Fire-Suppression Systems Insulation

(21)

21 07 16 Fire-Suppression Equipment Insulation

(21 07)

See CSI section 23 07 16 00-0000 for fire-suppression equipment insulation.

21 07 19 Fire-Suppression Piping Insulation

(21 07)

See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.

21 10 Water-Based Fire-Suppression Systems

(21)

See CSI section 22 11 16 00-0368 for copper pipe, 22 11 16 00-0912 for CPVC pipe, 23 05 23 00-0057 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.

21 11 Facility Fire-Suppression Water-Service Piping

(21 10)

21 11 19**Fire-Department Connections**

(21 11)

21 11 19 00-0001**Fire Department Connections**

(21 11 19)

21 11 19 00-0002 EA 4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass.....	1,034.28	406.44
For Polished Chrome, Add	52.32	
21 11 19 00-0003 EA 6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass.....	1,410.68	508.05
For Polished Chrome, Add	80.08	
21 11 19 00-0004 EA 4" x 3" x 3" Siamese Connection, Polished Brass.....	1,427.45	406.44
For Polished Chrome, Add	101.44	
21 11 19 00-0005 EA 6" x 3" x 3" Siamese Connection, Polished Brass.....	1,871.95	508.05
For Polished Chrome, Add	137.74	
21 11 19 00-0006 EA 6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass.....	1,984.70	508.05
For Polished Chrome, Add	151.83	
21 11 19 00-0007 EA Sidewalk Type Connection With Plug And Chain, Polished Brass.....	1,751.11	537.71
For Polished Chrome, Add	117.10	
21 11 19 00-0008 EA Wall Type Connection With Plug And Chain, Polished Brass.....	1,153.21	406.44
For Polished Chrome, Add	67.19	

21 11 19 00-0009**Wall Type Indicator Post, Wheel Operated**

(21 11 19)

See CSI section 33 14 19 00-0159 for adjustable indicator post accessory for ground valves.

21 11 19 00-0010 EA Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773).....	1,541.47	369.57
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21 12 Fire-Suppression Standpipes

(21 10)

21 12 13**Fire-Suppression Hoses and Nozzles**

(21 12)

21 12 13 00-0001**Fire Hose**

(21 12 13)



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Standpipes	21 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 12 13 00-0002 Fire Hose Without Couplings <small>(21 12 13 00-0001)</small>		
21 12 13 00-0003 LF 1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	3.32	2.70
21 12 13 00-0004 LF 2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	3.83	2.70
21 12 13 00-0005 LF 2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	3.53	2.70
21 12 13 00-0006 LF 3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	4.08	2.70
21 12 13 00-0007 LF 1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	3.60	2.70
21 12 13 00-0008 LF 2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings	4.34	2.70
21 12 13 00-0009 LF 1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	3.68	2.70
21 12 13 00-0010 LF 2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings	4.53	2.70
21 12 13 00-0011 Fire Hose With Aluminum Couplings <small>(21 12 13 00-0001)</small>		
21 12 13 00-0012 LF 1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	6.38	1.49
21 12 13 00-0013 LF 2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	7.83	1.75
21 12 13 00-0014 LF 3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	12.43	1.75
21 12 13 00-0015 Fire Hose Accessories <small>(21 12 13 00-0001)</small>		
21 12 13 00-0016 EA Hose Coupling With 1-1/2" Pin Lug.....	148.13	44.57
21 12 13 00-0017 EA Hose Coupling With 2-1/2" Pin Lug.....	214.27	49.96
21 12 13 00-0018 EA 1-1/2" x 10" Brass Straight Nozzle.....	92.15	35.11
21 12 13 00-0019 EA 2-1/2" x 12" Brass Straight Nozzle.....	165.11	35.11
21 12 13 00-0020 EA 1-1/2" Brass Fog Type Nozzle.....	133.82	35.11
21 12 13 00-0021 EA 2-1/2" Brass Fog Type Nozzle.....	185.50	35.11
21 12 13 00-0022 EA 1-1/2" Brass 100' Hose Rack.....	331.47	148.54
21 12 13 00-0023 EA 2-1/2" Brass 100' Hose Rack.....	429.00	148.54
21 12 23 Fire-Suppression Hose Valves <small>(21 12)</small>		
21 12 23 00-0001 Standpipe Valves <small>(21 12 23)</small>		
21 12 23 00-0002 EA 2-1/2" Fire Department Valve, Polished Brass With Plug And Chain.....	666.05	268.86
<i>For Polished Chrome, Add</i>	38.83	
21 12 23 00-0003 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	972.48	268.73
<i>For Polished Chrome, Add</i>	84.80	
21 12 23 00-0004 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	1,220.22	290.69
<i>For Polished Chrome, Add</i>	116.95	
21 12 23 00-0005 EA 3" x 3" x 4" Fire Department Valve, Flush, Polished Brass.....	1,414.05	268.73
<i>For Polished Chrome, Add</i>	151.03	
21 12 23 00-0006 EA 3" x 3" x 6" Fire Department Valve, Flush, Polished Brass.....	1,645.80	290.69
<i>For Polished Chrome, Add</i>	180.79	
21 12 23 00-0007 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass.....	925.55	268.73
<i>For Polished Chrome, Add</i>	77.76	
21 12 23 00-0008 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass.....	1,293.82	290.69
<i>For Polished Chrome, Add</i>	127.99	
21 12 23 00-0009 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	1,598.94	277.43
<i>For Polished Chrome, Add</i>	141.43	
21 12 23 00-0010 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	2,234.96	308.24
<i>For Polished Chrome, Add</i>	212.15	
21 12 23 00-0011 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	1,704.54	277.43
<i>For Polished Chrome, Add</i>	154.10	
21 12 23 00-0012 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	2,394.05	308.24
<i>For Polished Chrome, Add</i>	231.24	
21 12 23 00-0013 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Square, Flush, Polished Brass.....	5,431.89	369.84
<i>For Polished Chrome, Add</i>	487.14	
21 12 23 00-0014 Fire Hose Angle Valves <small>(21 12 23)</small>		
21 12 23 00-0015 EA 1-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	214.31	36.46
21 12 23 00-0016 EA 1-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve.....	250.47	36.46
21 12 23 00-0017 EA 1-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve.....	237.32	36.46
21 12 23 00-0018 EA 1-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	273.49	36.46
21 12 23 00-0019 EA 2-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	377.84	60.77
21 12 23 00-0020 EA 2-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve.....	430.45	60.77
21 12 23 00-0021 EA 2-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve.....	434.83	60.77
21 12 23 00-0022 EA 2-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	487.43	60.77
21 12 29 Fire-Suppression Fire Hose Equipment <small>(21 12)</small>		
21 12 29 00-0001 Standpipe And Fire Hose Equipment <small>(21 12 29)</small>		
21 12 29 00-0002 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass.....	2,335.20	666.46
21 12 29 00-0003 EA Water Motor Gong.....	790.49	187.38
21 12 29 00-0004 EA Fire Riser Flow Switch (National Fire Protection Association 13).....	597.18	21.80
21 12 29 00-0005 EA Water Flow Supervisory (Tamper) Switch Mounted On Valve.....	221.37	37.29
21 12 29 00-0006 EA Lever Type Bleeder Valve (Potter BVL).....	158.67	37.29
21 12 29 00-0007 Water Flow Detector <small>(21 12 29)</small>		
21 12 29 00-0008 Pressure-Type Water Flow Detector <small>(21 12 29 00-0007)</small>		

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 12 Fire-Suppression Standpipes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 12 29 00-0009 EA Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe.....	377.72	114.74
21 12 29 00-0010 EA Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe.....	543.49	152.04
21 12 29 00-0011 EA Pressure-Type Water Flow Detector For >4" To 8" Pipe.....	809.81	172.12
21 12 29 00-0012 Vane-Type Water Flow Detector (21 12 29 00-0007)		
21 12 29 00-0013 EA Vane-Type Water Flow Detector For Up To 2-1/2" Pipe.....	457.94	114.74
21 12 29 00-0014 EA Vane-Type Water Flow Detector For >2-1/2" To 4" Pipe.....	641.76	152.04
21 12 29 00-0015 EA Vane-Type Water Flow Detector For >4" To 8" Pipe.....	965.59	172.12
21 13 Fire-Suppression Sprinkler Systems (21 10)		
21 13 13 Wet-Pipe Sprinkler Systems (21 13)		
21 13 13 00-0001 Complete Wet Pipe Sprinkler Systems (21 13 13)		
Note: Includes complete design per NFPA 13, 13D or 13R and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.		
21 13 13 00-0002 Light Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)		
21 13 13 00-0003 EA Exposed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	533.78	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	62.75	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-89.44	
For Up To 5, Add	248.15	
For >5 To 10, Add	158.71	
For >10 To 20, Add	105.33	
For >20 To 40, Add	44.01	
For >100 To 150, Deduct	-53.38	
For >150, Deduct	-106.76	
21 13 13 00-0004 EA Concealed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	712.77	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	81.41	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-117.05	
For Up To 5, Add	336.11	
For >5 To 10, Add	219.06	
For >10 To 20, Add	147.78	
For >20 To 40, Add	61.14	
For >100 To 150, Deduct	-71.28	
For >150, Deduct	-142.55	
21 13 13 00-0005 Ordinary Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)		
21 13 13 00-0006 EA Exposed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	531.36	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	62.59	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-89.16	
For Up To 5, Add	246.76	
For >5 To 10, Add	157.60	
For >10 To 20, Add	104.46	
For >20 To 40, Add	43.68	
For >100 To 150, Deduct	-53.14	
For >150, Deduct	-106.27	
21 13 13 00-0007 EA Concealed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	706.16	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	80.76	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-116.07	
For Up To 5, Add	332.79	
For >5 To 10, Add	216.73	
For >10 To 20, Add	146.11	
For >20 To 40, Add	60.47	
For >100 To 150, Deduct	-70.62	
For >150, Deduct	-141.23	
21 13 13 00-0008 Extra Hazard, Complete Wet-Pipe Sprinkler Systems (21 13 13 00-0001)		
21 13 13 00-0009 EA Exposed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	491.94	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	57.86	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-82.45	
For Up To 5, Add	228.65	
For >5 To 10, Add	146.19	
For >10 To 20, Add	97.00	
For >20 To 40, Add	40.53	
For >100 To 150, Deduct	-49.19	
For >150, Deduct	-98.39	



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0010 EA Concealed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	654.95	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	74.80	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-107.55	
For Up To 5, Add	308.87	
For >5 To 10, Add	201.32	
For >10 To 20, Add	135.82	
For >20 To 40, Add	56.19	
For >100 To 150, Deduct	-65.50	
For >150, Deduct	-130.99	
21 13 13 00-0011 Wet Pipe Sprinkler Components (21 13 13)		
Note: Excludes hydraulic calculations.		
21 13 13 00-0012 Wet Pipe Alarm Check Valves (21 13 13 00-0011)		
Note: Excludes trim package See CSI section 21 13 13 00-0018 for Wet Pipe Valve Trim.		
21 13 13 00-0013 EA 2-1/2" Wet Pipe Alarm Check Valve	1,319.85	157.78
21 13 13 00-0014 EA 3" Wet Pipe Alarm Check Valve.....	1,365.75	180.73
21 13 13 00-0015 EA 4" Wet Pipe Alarm Check Valve.....	1,618.20	306.95
21 13 13 00-0016 EA 6" Wet Pipe Alarm Check Valve.....	1,640.33	387.28
21 13 13 00-0017 EA 8" Wet Pipe Alarm Check Valve.....	2,757.15	490.55
21 13 13 00-0018 Wet Pipe Valve Trim (21 13 13 00-0011)		
Note: Vertical or Horizontal, closed drain, basic galvanized trim assembly package. Includes gauges, pressure switch, relief valve, drain line, and retard chamber.		
21 13 13 00-0019 EA 2-1/2" Wet Pipe Valve Trim.....	1,274.31	333.92
21 13 13 00-0020 EA 3" Wet Pipe Valve Trim.....	1,332.93	333.92
21 13 13 00-0021 EA 4" Wet Pipe Valve Trim.....	1,645.34	457.84
21 13 13 00-0022 EA 6" Wet Pipe Valve Trim.....	2,002.30	636.85
21 13 13 00-0023 EA 8" Wet Pipe Valve Trim.....	2,254.75	788.31
21 13 13 00-0024 Wet Pipe Sprinkler Heads (21 13 13 00-0011)		
21 13 13 00-0025 Upright Wet Pipe Sprinkler Heads (21 13 13 00-0024)		
21 13 13 00-0026 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Brass Wet Pipe Sprinkler Head	81.06	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.09	
For >100 To 500, Deduct	-11.65	
For >500 To 1,000, Deduct	-24.92	
For >1,000, Deduct	-37.08	
21 13 13 00-0027 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Chrome Wet Pipe Sprinkler Head.....	83.12	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.19	
For >100 To 500, Deduct	-11.91	
For >500 To 1,000, Deduct	-25.29	
For >1,000, Deduct	-37.45	
21 13 13 00-0028 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	84.44	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.26	
For >100 To 500, Deduct	-12.07	
For >500 To 1,000, Deduct	-25.53	
For >1,000, Deduct	-37.68	
21 13 13 00-0029 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head	82.09	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.14	
For >100 To 500, Deduct	-11.78	
For >500 To 1,000, Deduct	-25.11	
For >1,000, Deduct	-37.26	
21 13 13 00-0030 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....	84.24	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.25	
For >100 To 500, Deduct	-12.05	
For >500 To 1,000, Deduct	-25.49	
For >1,000, Deduct	-37.65	
21 13 13 00-0031 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	85.61	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.32	
For >100 To 500, Deduct	-12.22	
For >500 To 1,000, Deduct	-25.74	
For >1,000, Deduct	-37.89	
21 13 13 00-0032 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Brass Wet Pipe Sprinkler Head	95.62	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.82	
For >100 To 500, Deduct	-13.47	
For >500 To 1,000, Deduct	-27.54	
For >1,000, Deduct	-39.70	
21 13 13 00-0033 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	101.16	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-8.10	
For >100 To 500, Deduct	-14.16	
For >500 To 1,000, Deduct	-28.54	
For >1,000, Deduct	-40.69	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0034	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Brass Wet Pipe Sprinkler Head	95.62	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.82	
			<i>For >100 To 500, Deduct</i>	-13.47	
			<i>For >500 To 1,000, Deduct</i>	-27.54	
			<i>For >1,000, Deduct</i>	-39.70	
21 13 13 00-0035	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	101.16	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.10	
			<i>For >100 To 500, Deduct</i>	-14.16	
			<i>For >500 To 1,000, Deduct</i>	-28.54	
			<i>For >1,000, Deduct</i>	-40.69	
21 13 13 00-0036	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Brass Wet Pipe Sprinkler Head	88.45	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.46	
			<i>For >100 To 500, Deduct</i>	-12.58	
			<i>For >500 To 1,000, Deduct</i>	-26.25	
			<i>For >1,000, Deduct</i>	-38.41	
21 13 13 00-0037	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	91.16	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 500, Deduct</i>	-12.91	
			<i>For >500 To 1,000, Deduct</i>	-26.74	
			<i>For >1,000, Deduct</i>	-38.89	
21 13 13 00-0038	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Brass Wet Pipe Sprinkler Head	92.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.21	
			<i>For >500 To 1,000, Deduct</i>	-28.07	
			<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0039	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0040	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.18	
			<i>For >100 To 500, Deduct</i>	-13.69	
			<i>For >500 To 1,000, Deduct</i>	-28.76	
			<i>For >1,000, Deduct</i>	-42.26	
21 13 13 00-0041	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....	92.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.21	
			<i>For >500 To 1,000, Deduct</i>	-28.07	
			<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0042	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0043	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.18	
			<i>For >100 To 500, Deduct</i>	-13.69	
			<i>For >500 To 1,000, Deduct</i>	-28.76	
			<i>For >1,000, Deduct</i>	-42.26	
21 13 13 00-0044	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Brass Wet Pipe Sprinkler Head	87.03	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.39	
			<i>For >100 To 500, Deduct</i>	-12.40	
			<i>For >500 To 1,000, Deduct</i>	-26.00	
			<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0045	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.49	
			<i>For >100 To 500, Deduct</i>	-12.66	
			<i>For >500 To 1,000, Deduct</i>	-26.37	
			<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0046	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0047	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Brass Wet Pipe Sprinkler Head	87.03	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.39	
			<i>For >100 To 500, Deduct</i>	-12.40	
			<i>For >500 To 1,000, Deduct</i>	-26.00	
			<i>For >1,000, Deduct</i>	-38.15	



		Fire Suppression	21
		Water-Based Fire-Suppression Systems	21 10
		Fire-Suppression Sprinkler Systems	21 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0048	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.49	
			<i>For >100 To 500, Deduct</i>	-12.66	
			<i>For >500 To 1,000, Deduct</i>	-26.37	
			<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0049	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0050	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Combustible Concealed Space, Upright Brass Wet Pipe Sprinkler Head.....	89.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.51	
			<i>For >100 To 500, Deduct</i>	-12.71	
			<i>For >500 To 1,000, Deduct</i>	-26.44	
			<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0051	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head.....	114.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-9.09	
			<i>For >100 To 500, Deduct</i>	-15.98	
			<i>For >500 To 1,000, Deduct</i>	-32.06	
			<i>For >1,000, Deduct</i>	-45.57	
21 13 13 00-0052	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	116.73	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-9.21	
			<i>For >100 To 500, Deduct</i>	-16.28	
			<i>For >500 To 1,000, Deduct</i>	-32.49	
			<i>For >1,000, Deduct</i>	-45.99	
21 13 13 00-0053	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	116.73	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-9.21	
			<i>For >100 To 500, Deduct</i>	-16.28	
			<i>For >500 To 1,000, Deduct</i>	-32.49	
			<i>For >1,000, Deduct</i>	-45.99	
21 13 13 00-0054	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head.....	98.32	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.29	
			<i>For >100 To 500, Deduct</i>	-13.98	
			<i>For >500 To 1,000, Deduct</i>	-29.18	
			<i>For >1,000, Deduct</i>	-42.68	
21 13 13 00-0055	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0056	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0057	EA		1/2" NPT Thread, K=5.6, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head.....	230.07	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-14.54	
			<i>For >100 To 500, Deduct</i>	-30.28	
			<i>For >500 To 1,000, Deduct</i>	-51.74	
			<i>For >1,000, Deduct</i>	-63.90	
21 13 13 00-0058	EA		3/4" NPT Thread, K=8.0, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head.....	253.59	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-16.06	
			<i>For >100 To 500, Deduct</i>	-33.39	
			<i>For >500 To 1,000, Deduct</i>	-57.12	
			<i>For >1,000, Deduct</i>	-70.63	
21 13 13 00-0059	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head.....	134.90	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.78	
			<i>For >100 To 500, Deduct</i>	-18.38	
			<i>For >500 To 1,000, Deduct</i>	-34.61	
			<i>For >1,000, Deduct</i>	-46.77	
21 13 13 00-0060	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head.....	159.69	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-11.02	
			<i>For >100 To 500, Deduct</i>	-21.48	
			<i>For >500 To 1,000, Deduct</i>	-39.08	
			<i>For >1,000, Deduct</i>	-51.23	
21 13 13 00-0061	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Brass Wet Pipe Sprinkler Head.....	263.37	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-16.21	
			<i>For >100 To 500, Deduct</i>	-34.44	
			<i>For >500 To 1,000, Deduct</i>	-57.74	
			<i>For >1,000, Deduct</i>	-69.89	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0062	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Chrome Wet Pipe Sprinkler Head.....	327.99	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-19.44	
			<i>For >100 To 500, Deduct</i>	-42.52	
			<i>For >500 To 1,000, Deduct</i>	-69.37	
			<i>For >1,000, Deduct</i>	-81.52	
21 13 13 00-0063	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head	166.44	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-11.70	
			<i>For >100 To 500, Deduct</i>	-22.49	
			<i>For >500 To 1,000, Deduct</i>	-41.44	
			<i>For >1,000, Deduct</i>	-54.94	
21 13 13 00-0064	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head	167.19	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-11.74	
			<i>For >100 To 500, Deduct</i>	-22.59	
			<i>For >500 To 1,000, Deduct</i>	-41.57	
			<i>For >1,000, Deduct</i>	-55.08	
21 13 13 00-0065			Conventional Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0066	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Brass Wet Pipe Sprinkler Head	81.06	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100 To 500, Deduct</i>	-11.65	
			<i>For >500 To 1,000, Deduct</i>	-24.92	
			<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0067	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head	83.12	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.19	
			<i>For >100 To 500, Deduct</i>	-11.91	
			<i>For >500 To 1,000, Deduct</i>	-25.29	
			<i>For >1,000, Deduct</i>	-37.45	
21 13 13 00-0068	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional White Polyester Coated Wet Pipe Sprinkler Head.....	84.44	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.26	
			<i>For >100 To 500, Deduct</i>	-12.07	
			<i>For >500 To 1,000, Deduct</i>	-25.53	
			<i>For >1,000, Deduct</i>	-37.68	
21 13 13 00-0069	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Brass Wet Pipe Sprinkler Head.....	92.93	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.30	
			<i>For >500 To 1,000, Deduct</i>	-28.21	
			<i>For >1,000, Deduct</i>	-41.71	
21 13 13 00-0070	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head	95.35	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.14	
			<i>For >100 To 500, Deduct</i>	-13.61	
			<i>For >500 To 1,000, Deduct</i>	-28.64	
			<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0071	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional White Polyester Coated Wet Pipe Sprinkler Head.....	95.73	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.16	
			<i>For >100 To 500, Deduct</i>	-13.65	
			<i>For >500 To 1,000, Deduct</i>	-28.71	
			<i>For >1,000, Deduct</i>	-42.21	
21 13 13 00-0072	EA		1/2" NPT Thread, K=5.6, Quick Response, Conventional Stainless Steel Wet Pipe Sprinkler Head.....	230.07	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-14.54	
			<i>For >100 To 500, Deduct</i>	-30.28	
			<i>For >500 To 1,000, Deduct</i>	-51.74	
			<i>For >1,000, Deduct</i>	-63.90	
21 13 13 00-0073			Pendant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
			See CSI section 21 13 13 00-0209 for escutcheon for recessed pendant sprinkler head.		
21 13 13 00-0074	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Brass Wet Pipe Sprinkler Head.....	81.06	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.09	
			<i>For >100 To 500, Deduct</i>	-11.65	
			<i>For >500 To 1,000, Deduct</i>	-24.92	
			<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0075	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head.....	83.12	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.19	
			<i>For >100 To 500, Deduct</i>	-11.91	
			<i>For >500 To 1,000, Deduct</i>	-25.29	
			<i>For >1,000, Deduct</i>	-37.45	
21 13 13 00-0076	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant White Polyester Coated Wet Pipe Sprinkler Head	84.44	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.26	
			<i>For >100 To 500, Deduct</i>	-12.07	
			<i>For >500 To 1,000, Deduct</i>	-25.53	
			<i>For >1,000, Deduct</i>	-37.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0077 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	92.19	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-7.99	
<i>For >100 To 500, Deduct</i>	-13.21	
<i>For >500 To 1,000, Deduct</i>	-28.07	
<i>For >1,000, Deduct</i>	-41.58	
21 13 13 00-0078 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	95.35	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.14	
<i>For >100 To 500, Deduct</i>	-13.61	
<i>For >500 To 1,000, Deduct</i>	-28.64	
<i>For >1,000, Deduct</i>	-42.15	
21 13 13 00-0079 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	95.99	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.18	
<i>For >100 To 500, Deduct</i>	-13.69	
<i>For >500 To 1,000, Deduct</i>	-28.76	
<i>For >1,000, Deduct</i>	-42.26	
21 13 13 00-0080 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Brass Wet Pipe Sprinkler Head	87.03	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.39	
<i>For >100 To 500, Deduct</i>	-12.40	
<i>For >500 To 1,000, Deduct</i>	-26.00	
<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0081 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.49	
<i>For >100 To 500, Deduct</i>	-12.66	
<i>For >500 To 1,000, Deduct</i>	-26.37	
<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0082 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.51	
<i>For >100 To 500, Deduct</i>	-12.71	
<i>For >500 To 1,000, Deduct</i>	-26.44	
<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0083 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head	87.03	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.39	
<i>For >100 To 500, Deduct</i>	-12.40	
<i>For >500 To 1,000, Deduct</i>	-26.00	
<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0084 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head.....	89.09	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.49	
<i>For >100 To 500, Deduct</i>	-12.66	
<i>For >500 To 1,000, Deduct</i>	-26.37	
<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0085 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	89.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.51	
<i>For >100 To 500, Deduct</i>	-12.71	
<i>For >500 To 1,000, Deduct</i>	-26.44	
<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0086 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head, Low Lead	87.03	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.39	
<i>For >100 To 500, Deduct</i>	-12.40	
<i>For >500 To 1,000, Deduct</i>	-26.00	
<i>For >1,000, Deduct</i>	-38.15	
21 13 13 00-0087 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead	89.09	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.49	
<i>For >100 To 500, Deduct</i>	-12.66	
<i>For >500 To 1,000, Deduct</i>	-26.37	
<i>For >1,000, Deduct</i>	-38.52	
21 13 13 00-0088 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	89.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.51	
<i>For >100 To 500, Deduct</i>	-12.71	
<i>For >500 To 1,000, Deduct</i>	-26.44	
<i>For >1,000, Deduct</i>	-38.59	
21 13 13 00-0089 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	81.06	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.09	
<i>For >100 To 500, Deduct</i>	-11.65	
<i>For >500 To 1,000, Deduct</i>	-24.92	
<i>For >1,000, Deduct</i>	-37.08	
21 13 13 00-0090 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead	83.12	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.19	
<i>For >100 To 500, Deduct</i>	-11.91	
<i>For >500 To 1,000, Deduct</i>	-25.29	
<i>For >1,000, Deduct</i>	-37.45	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0091	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	84.44	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.26	
			<i>For >100 To 500, Deduct</i>	-12.07	
			<i>For >500 To 1,000, Deduct</i>	-25.53	
			<i>For >1,000, Deduct</i>	-37.68	
21 13 13 00-0092	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head	82.10	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.14	
			<i>For >100 To 500, Deduct</i>	-11.78	
			<i>For >500 To 1,000, Deduct</i>	-25.11	
			<i>For >1,000, Deduct</i>	-37.26	
21 13 13 00-0093	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	83.56	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.22	
			<i>For >100 To 500, Deduct</i>	-11.96	
			<i>For >500 To 1,000, Deduct</i>	-25.37	
			<i>For >1,000, Deduct</i>	-37.53	
21 13 13 00-0094	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	84.89	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.28	
			<i>For >100 To 500, Deduct</i>	-12.13	
			<i>For >500 To 1,000, Deduct</i>	-25.61	
			<i>For >1,000, Deduct</i>	-37.77	
21 13 13 00-0095	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....	94.15	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.08	
			<i>For >100 To 500, Deduct</i>	-13.46	
			<i>For >500 To 1,000, Deduct</i>	-28.43	
			<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0096	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	96.83	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.22	
			<i>For >100 To 500, Deduct</i>	-13.79	
			<i>For >500 To 1,000, Deduct</i>	-28.91	
			<i>For >1,000, Deduct</i>	-42.41	
21 13 13 00-0097	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	96.83	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.22	
			<i>For >100 To 500, Deduct</i>	-13.79	
			<i>For >500 To 1,000, Deduct</i>	-28.91	
			<i>For >1,000, Deduct</i>	-42.41	
21 13 13 00-0098	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	88.45	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.46	
			<i>For >100 To 500, Deduct</i>	-12.58	
			<i>For >500 To 1,000, Deduct</i>	-26.25	
			<i>For >1,000, Deduct</i>	-38.41	
21 13 13 00-0099	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	91.16	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 500, Deduct</i>	-12.91	
			<i>For >500 To 1,000, Deduct</i>	-26.74	
			<i>For >1,000, Deduct</i>	-38.89	
21 13 13 00-0100	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	95.21	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 500, Deduct</i>	-13.42	
			<i>For >500 To 1,000, Deduct</i>	-27.47	
			<i>For >1,000, Deduct</i>	-39.62	
21 13 13 00-0101	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.97	
			<i>For >500 To 1,000, Deduct</i>	-28.27	
			<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0102	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	95.21	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 500, Deduct</i>	-13.42	
			<i>For >500 To 1,000, Deduct</i>	-27.47	
			<i>For >1,000, Deduct</i>	-39.62	
21 13 13 00-0103	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.97	
			<i>For >500 To 1,000, Deduct</i>	-28.27	
			<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0104	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	84.96	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.29	
			<i>For >100 To 500, Deduct</i>	-12.14	
			<i>For >500 To 1,000, Deduct</i>	-25.62	
			<i>For >1,000, Deduct</i>	-37.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0105 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head	87.28	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.40	
<i>For >100 To 500, Deduct</i>	-12.43	
<i>For >500 To 1,000, Deduct</i>	-26.04	
<i>For >1,000, Deduct</i>	-38.20	
21 13 13 00-0106 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	88.50	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.46	
<i>For >100 To 500, Deduct</i>	-12.58	
<i>For >500 To 1,000, Deduct</i>	-26.26	
<i>For >1,000, Deduct</i>	-38.41	
21 13 13 00-0107 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head	93.17	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.03	
<i>For >100 To 500, Deduct</i>	-13.33	
<i>For >500 To 1,000, Deduct</i>	-28.25	
<i>For >1,000, Deduct</i>	-41.75	
21 13 13 00-0108 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head	95.47	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.15	
<i>For >100 To 500, Deduct</i>	-13.62	
<i>For >500 To 1,000, Deduct</i>	-28.66	
<i>For >1,000, Deduct</i>	-42.17	
21 13 13 00-0109 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	97.69	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.26	
<i>For >100 To 500, Deduct</i>	-13.90	
<i>For >500 To 1,000, Deduct</i>	-29.06	
<i>For >1,000, Deduct</i>	-42.57	
21 13 13 00-0110 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head	86.27	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.35	
<i>For >100 To 500, Deduct</i>	-12.30	
<i>For >500 To 1,000, Deduct</i>	-25.86	
<i>For >1,000, Deduct</i>	-38.01	
21 13 13 00-0111 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head	88.55	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.47	
<i>For >100 To 500, Deduct</i>	-12.59	
<i>For >500 To 1,000, Deduct</i>	-26.27	
<i>For >1,000, Deduct</i>	-38.42	
21 13 13 00-0112 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	89.79	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.53	
<i>For >100 To 500, Deduct</i>	-12.74	
<i>For >500 To 1,000, Deduct</i>	-26.49	
<i>For >1,000, Deduct</i>	-38.65	
21 13 13 00-0113 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head	94.15	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.08	
<i>For >100 To 500, Deduct</i>	-13.46	
<i>For >500 To 1,000, Deduct</i>	-28.43	
<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0114 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head	96.54	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.20	
<i>For >100 To 500, Deduct</i>	-13.76	
<i>For >500 To 1,000, Deduct</i>	-28.86	
<i>For >1,000, Deduct</i>	-42.36	
21 13 13 00-0115 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	98.85	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.32	
<i>For >100 To 500, Deduct</i>	-14.04	
<i>For >500 To 1,000, Deduct</i>	-29.27	
<i>For >1,000, Deduct</i>	-42.78	
21 13 13 00-0116 EA 1/2" NPT Thread, 1/2" Orifice, Decorative Pendant Chrome Wet Pipe Sprinkler Head	122.49	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-9.16	
<i>For >100 To 500, Deduct</i>	-16.83	
<i>For >500 To 1,000, Deduct</i>	-32.38	
<i>For >1,000, Deduct</i>	-44.53	

21 Fire Suppression
21 10 Water-Based Fire-Suppression Systems
21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0117	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Pendant White Polyester Coated Wet Pipe Sprinkler Head.....	122.49	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.16	
			<i>For >100 To 500, Deduct</i>	-16.83	
			<i>For >500 To 1,000, Deduct</i>	-32.38	
			<i>For >1,000, Deduct</i>	-44.53	
21 13 13 00-0118	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head.....	100.70	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.41	
			<i>For >100 To 500, Deduct</i>	-14.28	
			<i>For >500 To 1,000, Deduct</i>	-29.60	
			<i>For >1,000, Deduct</i>	-43.11	
21 13 13 00-0119	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head.....	102.46	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.50	
			<i>For >100 To 500, Deduct</i>	-14.50	
			<i>For >500 To 1,000, Deduct</i>	-29.92	
			<i>For >1,000, Deduct</i>	-43.43	
21 13 13 00-0120	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	102.46	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.50	
			<i>For >100 To 500, Deduct</i>	-14.50	
			<i>For >500 To 1,000, Deduct</i>	-29.92	
			<i>For >1,000, Deduct</i>	-43.43	
21 13 13 00-0121	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head.....	98.32	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.29	
			<i>For >100 To 500, Deduct</i>	-13.98	
			<i>For >500 To 1,000, Deduct</i>	-29.18	
			<i>For >1,000, Deduct</i>	-42.68	
21 13 13 00-0122	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head.....	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0123	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	99.95	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.37	
			<i>For >100 To 500, Deduct</i>	-14.18	
			<i>For >500 To 1,000, Deduct</i>	-29.47	
			<i>For >1,000, Deduct</i>	-42.97	
21 13 13 00-0124	EA		1/2" NPT Thread, K=5.6, Quick Response, Pendant Stainless Steel Wet Pipe Sprinkler Head	230.07	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-14.54	
			<i>For >100 To 500, Deduct</i>	-30.28	
			<i>For >500 To 1,000, Deduct</i>	-51.74	
			<i>For >1,000, Deduct</i>	-63.90	
21 13 13 00-0125	EA		3/4" NPT Thread, K=8.0, Quick Response, Pendant Stainless Steel Wet Pipe Sprinkler Head	253.59	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-16.06	
			<i>For >100 To 500, Deduct</i>	-33.39	
			<i>For >500 To 1,000, Deduct</i>	-57.12	
			<i>For >1,000, Deduct</i>	-70.63	
21 13 13 00-0126	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendant Brass Wet Pipe Sprinkler Head	134.90	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-9.78	
			<i>For >100 To 500, Deduct</i>	-18.38	
			<i>For >500 To 1,000, Deduct</i>	-34.61	
			<i>For >1,000, Deduct</i>	-46.77	
21 13 13 00-0127	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendant Chrome Wet Pipe Sprinkler Head.....	159.69	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-11.02	
			<i>For >100 To 500, Deduct</i>	-21.48	
			<i>For >500 To 1,000, Deduct</i>	-39.08	
			<i>For >1,000, Deduct</i>	-51.23	
21 13 13 00-0128	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendant Brass Wet Pipe Sprinkler Head	263.37	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-16.21	
			<i>For >100 To 500, Deduct</i>	-34.44	
			<i>For >500 To 1,000, Deduct</i>	-57.74	
			<i>For >1,000, Deduct</i>	-69.89	
21 13 13 00-0129	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendant Chrome Wet Pipe Sprinkler Head.....	327.99	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-19.44	
			<i>For >100 To 500, Deduct</i>	-42.52	
			<i>For >500 To 1,000, Deduct</i>	-69.37	
			<i>For >1,000, Deduct</i>	-81.52	
21 13 13 00-0130	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendant Brass Wet Pipe Sprinkler Head	166.44	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-11.70	
			<i>For >100 To 500, Deduct</i>	-22.49	
			<i>For >500 To 1,000, Deduct</i>	-41.44	
			<i>For >1,000, Deduct</i>	-54.94	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0131 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	167.19	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-11.74	
For >100 To 500, Deduct	-22.59	
For >500 To 1,000, Deduct	-41.57	
For >1,000, Deduct	-55.08	
21 13 13 00-0132 Sidewall Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0133 Horizontal Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0134 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	84.15	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.25	
For >100 To 500, Deduct	-12.04	
For >500 To 1,000, Deduct	-25.48	
For >1,000, Deduct	-37.63	
21 13 13 00-0135 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	85.80	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.33	
For >100 To 500, Deduct	-12.24	
For >500 To 1,000, Deduct	-25.77	
For >1,000, Deduct	-37.93	
21 13 13 00-0136 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall White Polyester Coated Wet Pipe Sprinkler Head.....	88.42	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.46	
For >100 To 500, Deduct	-12.57	
For >500 To 1,000, Deduct	-26.25	
For >1,000, Deduct	-38.40	
21 13 13 00-0137 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	85.08	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.29	
For >100 To 500, Deduct	-12.15	
For >500 To 1,000, Deduct	-25.65	
For >1,000, Deduct	-37.80	
21 13 13 00-0138 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	86.77	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.38	
For >100 To 500, Deduct	-12.37	
For >500 To 1,000, Deduct	-25.95	
For >1,000, Deduct	-38.10	
21 13 13 00-0139 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head	89.43	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.51	
For >100 To 500, Deduct	-12.70	
For >500 To 1,000, Deduct	-26.43	
For >1,000, Deduct	-38.58	
21 13 13 00-0140 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	91.16	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.60	
For >100 To 500, Deduct	-12.91	
For >500 To 1,000, Deduct	-26.74	
For >1,000, Deduct	-38.89	
21 13 13 00-0141 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	93.85	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.73	
For >100 To 500, Deduct	-13.25	
For >500 To 1,000, Deduct	-27.22	
For >1,000, Deduct	-39.38	
21 13 13 00-0142 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	99.28	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-8.34	
For >100 To 500, Deduct	-14.10	
For >500 To 1,000, Deduct	-29.35	
For >1,000, Deduct	-42.85	
21 13 13 00-0143 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	103.31	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-8.54	
For >100 To 500, Deduct	-14.60	
For >500 To 1,000, Deduct	-30.07	
For >1,000, Deduct	-43.58	
21 13 13 00-0144 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	96.97	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-7.89	
For >100 To 500, Deduct	-13.64	
For >500 To 1,000, Deduct	-27.79	
For >1,000, Deduct	-39.94	
21 13 13 00-0145 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
For >25 To 50, Deduct	-3.04	
For >50 To 100, Deduct	-8.02	
For >100 To 500, Deduct	-13.97	
For >500 To 1,000, Deduct	-28.27	
For >1,000, Deduct	-40.42	

21 Fire Suppression
21 10 Water-Based Fire-Suppression Systems
21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0146	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	96.97	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.89	
			<i>For >100 To 500, Deduct</i>	-13.64	
			<i>For >500 To 1,000, Deduct</i>	-27.79	
			<i>For >1,000, Deduct</i>	-39.94	
21 13 13 00-0147	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	99.64	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-8.02	
			<i>For >100 To 500, Deduct</i>	-13.97	
			<i>For >500 To 1,000, Deduct</i>	-28.27	
			<i>For >1,000, Deduct</i>	-40.42	
21 13 13 00-0148	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	82.74	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.18	
			<i>For >100 To 500, Deduct</i>	-11.86	
			<i>For >500 To 1,000, Deduct</i>	-25.22	
			<i>For >1,000, Deduct</i>	-37.38	
21 13 13 00-0149	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	84.11	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.24	
			<i>For >100 To 500, Deduct</i>	-12.03	
			<i>For >500 To 1,000, Deduct</i>	-25.47	
			<i>For >1,000, Deduct</i>	-37.62	
21 13 13 00-0150	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	85.81	15.19
			<i>For >25 To 50, Deduct</i>	-3.04	
			<i>For >50 To 100, Deduct</i>	-7.33	
			<i>For >100 To 500, Deduct</i>	-12.25	
			<i>For >500 To 1,000, Deduct</i>	-25.78	
			<i>For >1,000, Deduct</i>	-37.93	
21 13 13 00-0151	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	91.09	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.93	
			<i>For >100 To 500, Deduct</i>	-13.07	
			<i>For >500 To 1,000, Deduct</i>	-27.87	
			<i>For >1,000, Deduct</i>	-41.38	
21 13 13 00-0152	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	92.56	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.00	
			<i>For >100 To 500, Deduct</i>	-13.26	
			<i>For >500 To 1,000, Deduct</i>	-28.14	
			<i>For >1,000, Deduct</i>	-41.64	
21 13 13 00-0153	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	94.14	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.08	
			<i>For >100 To 500, Deduct</i>	-13.46	
			<i>For >500 To 1,000, Deduct</i>	-28.42	
			<i>For >1,000, Deduct</i>	-41.93	
21 13 13 00-0154	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	92.25	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-7.99	
			<i>For >100 To 500, Deduct</i>	-13.22	
			<i>For >500 To 1,000, Deduct</i>	-28.08	
			<i>For >1,000, Deduct</i>	-41.59	
21 13 13 00-0155	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	93.78	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.07	
			<i>For >100 To 500, Deduct</i>	-13.41	
			<i>For >500 To 1,000, Deduct</i>	-28.36	
			<i>For >1,000, Deduct</i>	-41.86	
21 13 13 00-0156	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	95.42	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.15	
			<i>For >100 To 500, Deduct</i>	-13.62	
			<i>For >500 To 1,000, Deduct</i>	-28.65	
			<i>For >1,000, Deduct</i>	-42.16	
21 13 13 00-0157	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	95.45	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.15	
			<i>For >100 To 500, Deduct</i>	-13.62	
			<i>For >500 To 1,000, Deduct</i>	-28.66	
			<i>For >1,000, Deduct</i>	-42.16	
21 13 13 00-0158	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	97.70	16.88
			<i>For >25 To 50, Deduct</i>	-3.38	
			<i>For >50 To 100, Deduct</i>	-8.26	
			<i>For >100 To 500, Deduct</i>	-13.90	
			<i>For >500 To 1,000, Deduct</i>	-29.06	
			<i>For >1,000, Deduct</i>	-42.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0159 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	97.70	16.88
<i>For >25 To 50, Deduct</i>	-3.38	
<i>For >50 To 100, Deduct</i>	-8.26	
<i>For >100 To 500, Deduct</i>	-13.90	
<i>For >500 To 1,000, Deduct</i>	-29.06	
<i>For >1,000, Deduct</i>	-42.57	
21 13 13 00-0160 EA 1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	137.40	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-9.91	
<i>For >100 To 500, Deduct</i>	-18.69	
<i>For >500 To 1,000, Deduct</i>	-35.06	
<i>For >1,000, Deduct</i>	-47.22	
21 13 13 00-0161 EA 1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head.....	137.40	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-9.91	
<i>For >100 To 500, Deduct</i>	-18.69	
<i>For >500 To 1,000, Deduct</i>	-35.06	
<i>For >1,000, Deduct</i>	-47.22	
21 13 13 00-0162 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Brass Wet Pipe Sprinkler Head	83.31	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.20	
<i>For >100 To 500, Deduct</i>	-11.93	
<i>For >500 To 1,000, Deduct</i>	-25.33	
<i>For >1,000, Deduct</i>	-37.48	
21 13 13 00-0163 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	83.31	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.20	
<i>For >100 To 500, Deduct</i>	-11.93	
<i>For >500 To 1,000, Deduct</i>	-25.33	
<i>For >1,000, Deduct</i>	-37.48	
21 13 13 00-0164 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall White Wet Pipe Sprinkler Head	83.31	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.20	
<i>For >100 To 500, Deduct</i>	-11.93	
<i>For >500 To 1,000, Deduct</i>	-25.33	
<i>For >1,000, Deduct</i>	-37.48	
21 13 13 00-0165 Vertical Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0166 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Brass Wet Pipe Sprinkler Head.....	86.29	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.35	
<i>For >100 To 500, Deduct</i>	-12.31	
<i>For >500 To 1,000, Deduct</i>	-25.86	
<i>For >1,000, Deduct</i>	-38.02	
21 13 13 00-0167 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head	88.36	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.46	
<i>For >100 To 500, Deduct</i>	-12.56	
<i>For >500 To 1,000, Deduct</i>	-26.24	
<i>For >1,000, Deduct</i>	-38.39	
21 13 13 00-0168 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head.....	89.24	15.19
<i>For >25 To 50, Deduct</i>	-3.04	
<i>For >50 To 100, Deduct</i>	-7.50	
<i>For >100 To 500, Deduct</i>	-12.67	
<i>For >500 To 1,000, Deduct</i>	-26.39	
<i>For >1,000, Deduct</i>	-38.55	
21 13 13 00-0169 Concealed Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0170 Concealed Pendant Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0169)</small>		
21 13 13 00-0171 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	121.61	20.26
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-4.05	
<i>For >50 To 100, Deduct</i>	-10.13	
<i>For >100 To 500, Deduct</i>	-17.23	
<i>For >500 To 1,000, Deduct</i>	-35.66	
<i>For >1,000, Deduct</i>	-51.87	
21 13 13 00-0172 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head	97.38	20.26
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-4.05	
<i>For >50 To 100, Deduct</i>	-8.92	
<i>For >100 To 500, Deduct</i>	-14.20	
<i>For >500 To 1,000, Deduct</i>	-31.30	
<i>For >1,000, Deduct</i>	-47.51	
21 13 13 00-0173 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Concealed Pendent Brass Wet Pipe Sprinkler Head	98.27	20.26
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-4.05	
<i>For >50 To 100, Deduct</i>	-8.96	
<i>For >100 To 500, Deduct</i>	-14.31	
<i>For >500 To 1,000, Deduct</i>	-31.46	
<i>For >1,000, Deduct</i>	-47.67	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0174 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	117.04	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.24	
For >100 To 500, Deduct	-16.82	
For >500 To 1,000, Deduct	-35.99	
For >1,000, Deduct	-53.55	
21 13 13 00-0175 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0176 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0177 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head	117.04	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-10.24	
For >100 To 500, Deduct	-16.82	
For >500 To 1,000, Deduct	-35.99	
For >1,000, Deduct	-53.55	
21 13 13 00-0178 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head	104.61	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.28	
For >100 To 500, Deduct	-15.10	
For >500 To 1,000, Deduct	-32.60	
For >1,000, Deduct	-48.81	
21 13 13 00-0179 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0180 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head	110.28	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.57	
For >100 To 500, Deduct	-15.81	
For >500 To 1,000, Deduct	-33.62	
For >1,000, Deduct	-49.83	
21 13 13 00-0181 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	105.95	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.35	
For >100 To 500, Deduct	-15.27	
For >500 To 1,000, Deduct	-32.84	
For >1,000, Deduct	-49.05	
21 13 13 00-0182 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Adjustable Concealed Pendent Brass Wet Pipe Sprinkler Head.....	157.57	23.63
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.73	
For >50 To 100, Deduct	-12.61	
For >100 To 500, Deduct	-22.06	
For >500 To 1,000, Deduct	-44.43	
For >1,000, Deduct	-63.34	
21 13 13 00-0183 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	101.79	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.14	
For >100 To 500, Deduct	-14.75	
For >500 To 1,000, Deduct	-32.10	
For >1,000, Deduct	-48.30	
21 13 13 00-0184 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	108.18	21.95
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.39	
For >50 To 100, Deduct	-9.80	
For >100 To 500, Deduct	-15.72	
For >500 To 1,000, Deduct	-34.40	
For >1,000, Deduct	-51.95	
21 13 13 00-0185 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	102.58	20.26
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-9.18	
For >100 To 500, Deduct	-14.85	
For >500 To 1,000, Deduct	-32.24	
For >1,000, Deduct	-48.44	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0186	EA		3/4" NPT Thread, 17/32" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	109.34	21.95
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.39	
			For >50 To 100, Deduct	-9.86	
			For >100 To 500, Deduct	-15.86	
			For >500 To 1,000, Deduct	-34.60	
			For >1,000, Deduct	-52.16	
21 13 13 00-0187	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	117.41	21.95
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.39	
			For >50 To 100, Deduct	-10.26	
			For >100 To 500, Deduct	-16.87	
			For >500 To 1,000, Deduct	-36.06	
			For >1,000, Deduct	-53.61	
21 13 13 00-0188	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate.....	175.96	23.63
			For >25 To 50, Deduct	-4.73	
			For >50 To 100, Deduct	-13.52	
			For >100 To 500, Deduct	-24.36	
			For >500 To 1,000, Deduct	-47.74	
			For >1,000, Deduct	-66.65	
21 13 13 00-0189	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate.....	175.96	23.63
			For >25 To 50, Deduct	-4.73	
			For >50 To 100, Deduct	-13.52	
			For >100 To 500, Deduct	-24.36	
			For >500 To 1,000, Deduct	-47.74	
			For >1,000, Deduct	-66.65	
21 13 13 00-0190			Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0169)</small>		
21 13 13 00-0191	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	128.35	20.26
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-10.47	
			For >100 To 500, Deduct	-18.07	
			For >500 To 1,000, Deduct	-36.88	
			For >1,000, Deduct	-53.08	
21 13 13 00-0192	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	143.00	21.95
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.39	
			For >50 To 100, Deduct	-11.54	
			For >100 To 500, Deduct	-20.07	
			For >500 To 1,000, Deduct	-40.66	
			For >1,000, Deduct	-58.22	
21 13 13 00-0193	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	108.65	20.26
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-9.48	
			For >100 To 500, Deduct	-15.61	
			For >500 To 1,000, Deduct	-33.33	
			For >1,000, Deduct	-49.53	
21 13 13 00-0194	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	112.41	21.95
			Note: Excludes coverplate		
			For >25 To 50, Deduct	-4.39	
			For >50 To 100, Deduct	-10.01	
			For >100 To 500, Deduct	-16.25	
			For >500 To 1,000, Deduct	-35.16	
			For >1,000, Deduct	-52.71	
21 13 13 00-0195			Institutional Tamper Resistant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0196	EA		1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head.....	250.84	16.88
			Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
			For >25 To 50, Deduct	-3.38	
			For >50 To 100, Deduct	-15.92	
			For >100 To 500, Deduct	-33.04	
			For >500 To 1,000, Deduct	-56.63	
			For >1,000, Deduct	-70.13	
21 13 13 00-0197	EA		1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	245.54	16.88
			Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
			For >25 To 50, Deduct	-3.38	
			For >50 To 100, Deduct	-15.65	
			For >100 To 500, Deduct	-32.38	
			For >500 To 1,000, Deduct	-55.68	
			For >1,000, Deduct	-69.18	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0198 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head.....	123.57	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-9.55	
For >100 To 500, Deduct	-17.13	
For >500 To 1,000, Deduct	-33.72	
For >1,000, Deduct	-47.23	
21 13 13 00-0199 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	134.56	16.88
For >25 To 50, Deduct	-3.38	
For >50 To 100, Deduct	-10.10	
For >100 To 500, Deduct	-18.51	
For >500 To 1,000, Deduct	-35.70	
For >1,000, Deduct	-49.20	
21 13 13 00-0200 Wet Pipe Sprinkler Head Accessories (21 13 13 00-0011)		
21 13 13 00-0201 Sprinkler Adjustable Steel Drop Nipple (21 13 13 00-0200)		
21 13 13 00-0202 EA 1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M1.150).....	47.54	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.70	
For >100 To 500, Deduct	-6.60	
For >500 To 1,000, Deduct	-13.04	
For >1,000, Deduct	-18.32	
21 13 13 00-0203 EA 1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M3.150).....	47.54	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.70	
For >100 To 500, Deduct	-6.60	
For >500 To 1,000, Deduct	-13.04	
For >1,000, Deduct	-18.32	
21 13 13 00-0204 EA 1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop Nipple (Anvil ME3.150).....	47.97	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.72	
For >100 To 500, Deduct	-6.66	
For >500 To 1,000, Deduct	-13.12	
For >1,000, Deduct	-18.40	
21 13 13 00-0205 EA 1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F1.150).....	43.52	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.50	
For >100 To 500, Deduct	-6.10	
For >500 To 1,000, Deduct	-12.32	
For >1,000, Deduct	-17.60	
21 13 13 00-0206 EA 1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150).....	43.52	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.50	
For >100 To 500, Deduct	-6.10	
For >500 To 1,000, Deduct	-12.32	
For >1,000, Deduct	-17.60	
21 13 13 00-0207 EA 1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150).....	43.52	15.83
For >25 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-3.50	
For >100 To 500, Deduct	-6.10	
For >500 To 1,000, Deduct	-12.32	
For >1,000, Deduct	-17.60	
21 13 13 00-0208 EA 1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175).....	48.32	17.22
For >25 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-3.85	
For >100 To 500, Deduct	-6.76	
For >500 To 1,000, Deduct	-13.57	
For >1,000, Deduct	-19.31	
21 13 13 00-0209 Sprinkler Head Escutcheon (21 13 13 00-0200)		
21 13 13 00-0210 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.79	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.45	
For >100 To 500, Deduct	-2.60	
For >500 To 1,000, Deduct	-5.10	
For >1,000, Deduct	-7.13	
21 13 13 00-0211 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0212 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0213 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.79	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.45	
For >100 To 500, Deduct	-2.60	
For >500 To 1,000, Deduct	-5.10	
For >1,000, Deduct	-7.13	
21 13 13 00-0214 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0215 EA 2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0216 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.41	
For >100 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.96	
For >1,000, Deduct	-6.98	
21 13 13 00-0217 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0218 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0219 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	18.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.41	
For >100 To 500, Deduct	-2.50	
For >500 To 1,000, Deduct	-4.96	
For >1,000, Deduct	-6.98	
21 13 13 00-0220 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0221 EA 2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	14.41	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.23	
For >100 To 500, Deduct	-2.05	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.34	
21 13 13 00-0222 EA 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed Escutcheon.....	18.39	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.43	
For >100 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-5.03	
For >1,000, Deduct	-7.05	
21 13 13 00-0223 EA 3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed Escutcheon.....	18.39	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.43	
For >100 To 500, Deduct	-2.55	
For >500 To 1,000, Deduct	-5.03	
For >1,000, Deduct	-7.05	
21 13 13 00-0224 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon.....	8.50	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.76	
For >100 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-2.68	
For >1,000, Deduct	-4.03	
21 13 13 00-0225 EA 2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon.....	7.95	4.46
For >25 To 50, Deduct	-0.34	
For >50 To 100, Deduct	-0.74	
For >100 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-2.58	
For >1,000, Deduct	-3.93	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0226	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon.....	8.10	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.18	
			<i>For >500 To 1,000, Deduct</i>	-2.61	
			<i>For >1,000, Deduct</i>	-3.96	
21 13 13 00-0227	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon.....	8.60	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.77	
			<i>For >100 To 500, Deduct</i>	-1.24	
			<i>For >500 To 1,000, Deduct</i>	-2.70	
			<i>For >1,000, Deduct</i>	-4.05	
21 13 13 00-0228	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon	8.05	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.18	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.95	
21 13 13 00-0229	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon.....	8.05	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.18	
			<i>For >500 To 1,000, Deduct</i>	-2.60	
			<i>For >1,000, Deduct</i>	-3.95	
21 13 13 00-0230	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon.....	9.17	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.80	
			<i>For >100 To 500, Deduct</i>	-1.32	
			<i>For >500 To 1,000, Deduct</i>	-2.80	
			<i>For >1,000, Deduct</i>	-4.15	
21 13 13 00-0231	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon	8.04	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-2.59	
			<i>For >1,000, Deduct</i>	-3.94	
21 13 13 00-0232	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon.....	8.04	4.46
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-0.74	
			<i>For >100 To 500, Deduct</i>	-1.17	
			<i>For >500 To 1,000, Deduct</i>	-2.59	
			<i>For >1,000, Deduct</i>	-3.94	
21 13 13 00-0233	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping Escutcheon.....	12.51	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.75	
21 13 13 00-0234	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon.....	12.20	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.08	
			<i>For >100 To 500, Deduct</i>	-1.76	
			<i>For >500 To 1,000, Deduct</i>	-3.80	
			<i>For >1,000, Deduct</i>	-5.69	
21 13 13 00-0235	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon.....	12.31	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.71	
21 13 13 00-0236	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon.....	12.61	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.81	
			<i>For >500 To 1,000, Deduct</i>	-3.88	
			<i>For >1,000, Deduct</i>	-5.77	
21 13 13 00-0237	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon.....	12.31	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-1.78	
			<i>For >500 To 1,000, Deduct</i>	-3.82	
			<i>For >1,000, Deduct</i>	-5.71	
21 13 13 00-0238	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon.....	12.51	6.24
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 500, Deduct</i>	-1.80	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.75	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0239 EA Flat Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0240 EA Flat White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0241 EA Conical Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0242 EA Conical White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0243 EA Chrome Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0244 EA White Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head	22.00	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.61	
For >100 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-5.68	
For >1,000, Deduct	-7.70	
21 13 13 00-0245 EA 2-Piece Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	24.72	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.74	
For >100 To 500, Deduct	-3.34	
For >500 To 1,000, Deduct	-6.17	
For >1,000, Deduct	-8.19	
21 13 13 00-0246 EA 2-Piece White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	25.35	6.08
For >25 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.77	
For >100 To 500, Deduct	-3.42	
For >500 To 1,000, Deduct	-6.28	
For >1,000, Deduct	-8.31	
21 13 13 00-0247 Coverplate For Sprinkler Heads (21 13 13 00-0200)		
21 13 13 00-0248 EA Chrome Coverplate For Concealed Pendent Sprinkler Head	46.80	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.91	
For >100 To 500, Deduct	-6.14	
For >500 To 1,000, Deduct	-10.38	
For >1,000, Deduct	-12.67	
21 13 13 00-0249 EA White Coverplate For Concealed Pendent Sprinkler Head	25.24	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.84	
For >100 To 500, Deduct	-3.44	
For >500 To 1,000, Deduct	-6.49	
For >1,000, Deduct	-8.79	
21 13 13 00-0250 EA Specialty Coverplate For Concealed Pendent Sprinkler Head	34.59	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.30	
For >100 To 500, Deduct	-4.61	
For >500 To 1,000, Deduct	-8.18	
For >1,000, Deduct	-10.47	
21 13 13 00-0251 EA Brass Coverplate For Concealed Sidewall Sprinkler Head	32.17	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-2.18	
For >100 To 500, Deduct	-4.31	
For >500 To 1,000, Deduct	-7.74	
For >1,000, Deduct	-10.04	
21 13 13 00-0252 EA Chrome Coverplate For Concealed Sidewall Sprinkler Head	26.67	6.88
For >25 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-6.75	
For >1,000, Deduct	-9.05	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0253	EA		White Coverplate For Concealed Sidewall Sprinkler Head.....	26.67	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-1.91	
			<i>For >100 To 500, Deduct</i>	-3.62	
			<i>For >500 To 1,000, Deduct</i>	-6.75	
			<i>For >1,000, Deduct</i>	-9.05	
21 13 13 00-0254	EA		Off-White Coverplate For Concealed Sidewall Sprinkler Head.....	32.17	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-7.74	
			<i>For >1,000, Deduct</i>	-10.04	
21 13 13 00-0255	EA		Black Painted Coverplate For Concealed Sidewall Sprinkler Head.....	32.17	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-7.74	
			<i>For >1,000, Deduct</i>	-10.04	
21 13 13 00-0256	EA		Black Plated Coverplate For Concealed Sidewall Sprinkler Head.....	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0257	EA		Bright Brass Coverplate For Concealed Sidewall Sprinkler Head.....	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0258	EA		Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head.....	36.52	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.40	
			<i>For >100 To 500, Deduct</i>	-4.85	
			<i>For >500 To 1,000, Deduct</i>	-8.53	
			<i>For >1,000, Deduct</i>	-10.82	
21 13 13 00-0259	EA		Specialty Coverplate For Concealed Sidewall Sprinkler Head.....	32.19	6.88
			<i>For >25 To 50, Deduct</i>	-0.57	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100 To 500, Deduct</i>	-4.31	
			<i>For >500 To 1,000, Deduct</i>	-7.75	
			<i>For >1,000, Deduct</i>	-10.04	
21 13 13 00-0260	EA		White Coverplate For Quick Release Concealed Sidewall Sprinkler Head.....	52.35	8.10
			<i>For >25 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-3.29	
			<i>For >100 To 500, Deduct</i>	-6.88	
			<i>For >500 To 1,000, Deduct</i>	-11.72	
			<i>For >1,000, Deduct</i>	-14.42	
21 13 13 00-0261			Sprinkler Escutcheon Extension Tube <small>(21 13 13 00-0200)</small>		
21 13 13 00-0262	EA		2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	13.58	4.06
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.34	
			<i>For >50 To 100, Deduct</i>	-1.02	
			<i>For >100 To 500, Deduct</i>	-1.87	
			<i>For >500 To 1,000, Deduct</i>	-3.59	
			<i>For >1,000, Deduct</i>	-4.94	
21 13 13 00-0263	EA		2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	16.96	4.26
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.20	
			<i>For >100 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-4.26	
			<i>For >1,000, Deduct</i>	-5.68	
21 13 13 00-0264	EA		2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	20.71	4.46
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.37	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100 To 500, Deduct</i>	-2.77	
			<i>For >500 To 1,000, Deduct</i>	-4.99	
			<i>For >1,000, Deduct</i>	-6.48	
21 13 13 00-0265	EA		2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	24.09	4.66
			Note: For use with 2 piece escutcheons		
			<i>For >25 To 50, Deduct</i>	-0.39	
			<i>For >50 To 100, Deduct</i>	-1.59	
			<i>For >100 To 500, Deduct</i>	-3.21	
			<i>For >500 To 1,000, Deduct</i>	-5.66	
			<i>For >1,000, Deduct</i>	-7.21	

21 13 13 00-0266 Sprinkler Head Guards (21 13 13 00-0200)



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0267 EA Universal Sprinkler Head Guard, C-1	24.61	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.24	
For >100 To 500, Deduct	-3.58	
For >500 To 1,000, Deduct	-7.87	
For >1,000, Deduct	-11.93	
21 13 13 00-0268 EA Dry Pendent Sprinkler Head Guard, C-2	26.29	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.33	
For >100 To 500, Deduct	-3.79	
For >500 To 1,000, Deduct	-8.18	
For >1,000, Deduct	-12.23	
21 13 13 00-0269 EA Upright Sprinkler Head Guard With Water Shield, C-3	29.16	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.47	
For >100 To 500, Deduct	-4.15	
For >500 To 1,000, Deduct	-8.69	
For >1,000, Deduct	-12.75	
21 13 13 00-0270 EA Pendent Sprinkler Head Guard With Water Shield, C-5	32.70	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.65	
For >100 To 500, Deduct	-4.59	
For >500 To 1,000, Deduct	-9.33	
For >1,000, Deduct	-13.38	
21 13 13 00-0271 EA Universal Sprinkler Head Guard, D-1	26.23	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.32	
For >100 To 500, Deduct	-3.79	
For >500 To 1,000, Deduct	-8.17	
For >1,000, Deduct	-12.22	
21 13 13 00-0272 EA Upright Sprinkler Head Guard With Water Shield, D-3	27.32	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.38	
For >100 To 500, Deduct	-3.92	
For >500 To 1,000, Deduct	-8.36	
For >1,000, Deduct	-12.41	
21 13 13 00-0273 EA Pendent Sprinkler Head Guard With Large Water Shield, D-4	35.44	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.79	
For >100 To 500, Deduct	-4.94	
For >500 To 1,000, Deduct	-9.82	
For >1,000, Deduct	-13.88	
21 13 13 00-0274 EA Pendent Sprinkler Head Guard With Small Water Shield, D-5.....	33.81	12.16
For >25 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.70	
For >100 To 500, Deduct	-4.73	
For >500 To 1,000, Deduct	-9.53	
For >1,000, Deduct	-13.58	
21 13 13 00-0275 Flexible Sprinkler Piping <small>(21 13 13 00-0011)</small>		
Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.		
21 13 13 00-0276 EA 2' Long Stainless Steel Flexible Sprinkler Piping	75.55	20.93
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.89	
For >100 To 500, Deduct	-10.50	
For >500 To 1,000, Deduct	-20.77	
For >1,000, Deduct	-29.21	
21 13 13 00-0277 EA 3' Long Stainless Steel Flexible Sprinkler Piping	82.85	21.60
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.22	
For >50 To 100, Deduct	-6.36	
For >100 To 500, Deduct	-11.47	
For >500 To 1,000, Deduct	-22.46	
For >1,000, Deduct	-31.35	
21 13 13 00-0278 EA 4' Long Stainless Steel Flexible Sprinkler Piping	90.37	22.95
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.34	
For >50 To 100, Deduct	-6.86	
For >100 To 500, Deduct	-12.47	
For >500 To 1,000, Deduct	-24.24	
For >1,000, Deduct	-33.62	
21 13 13 00-0279 EA 5' Long Stainless Steel Flexible Sprinkler Piping	98.22	24.31
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.48	
For >50 To 100, Deduct	-7.39	
For >100 To 500, Deduct	-13.52	
For >500 To 1,000, Deduct	-26.12	
For >1,000, Deduct	-36.05	
21 13 13 00-0280 EA 6' Long Stainless Steel Flexible Sprinkler Piping	106.38	27.01
Note: Includes ceiling mounting bracket.		
For >25 To 50, Deduct	-2.64	
For >50 To 100, Deduct	-7.96	
For >100 To 500, Deduct	-14.62	
For >500 To 1,000, Deduct	-28.12	
For >1,000, Deduct	-38.67	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

21 13 13 00-0281	Sprinkler Emergency Cabinets <small>(21 13 00-0011)</small>		
21 13 13 00-0282	EA 3 Capacity Emergency Sprinkler Cabinet, A4	105.28	
21 13 13 00-0283	EA 6 Capacity Emergency Sprinkler Cabinet, A4	112.03	
21 13 13 00-0284	EA 12 Capacity Emergency Sprinkler Cabinet, A4	113.15	
21 13 13 00-0285	EA 12 Capacity Emergency Sprinkler Cabinet, A3	305.53	
21 13 13 00-0286	EA Sprinkler Wrench, RC1	124.89	
21 13 13 00-0287	EA Sprinkler Wrench, FC	124.41	
21 13 13 00-0288	EA Sprinkler Wrench, W2	41.31	

21 13 16 Dry-Pipe Sprinkler Systems (21 13)

21 13 16 00-0001	Complete Dry Pipe Sprinkler Systems <small>(21 13 16)</small>		
	Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.		

21 13 16 00-0002	Light Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0003	EA Exposed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head	579.38	
	Note: Includes branch pipe and fittings, supports and sprinkler heads.		
	For Up To 5, Add	269.67	
	For >5 To 10, Add	152.74	
	For >10 To 20, Add	114.82	
	For >20 To 40, Add	47.93	
	For >100 To 150, Deduct	-57.94	
	For >150, Deduct	-115.88	
	For Copper Pipe, Add	67.95	
	For Polyvinyl Chloride (PVC) Pipe, Deduct	-96.92	
21 13 16 00-0004	EA Concealed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head	732.48	
	Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
	For Up To 5, Add	344.43	
	For >5 To 10, Add	201.84	
	For >10 To 20, Add	150.40	
	For >20 To 40, Add	62.34	
	For >100 To 150, Deduct	-73.25	
	For >150, Deduct	-146.50	
	For Copper Pipe, Add	84.15	
	For Polyvinyl Chloride (PVC) Pipe, Deduct	-120.78	

21 13 16 00-0005	Ordinary Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0006	EA Exposed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head	586.38	
	Note: Includes branch pipe and fittings, supports and sprinkler heads.		
	For Up To 5, Add	272.00	
	For >5 To 10, Add	152.26	
	For >10 To 20, Add	114.81	
	For >20 To 40, Add	48.04	
	For >100 To 150, Deduct	-58.64	
	For >150, Deduct	-117.28	
	For Copper Pipe, Add	69.23	
	For Polyvinyl Chloride (PVC) Pipe, Deduct	-98.55	
21 13 16 00-0007	EA Concealed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head	735.94	
	Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
	For Up To 5, Add	345.19	
	For >5 To 10, Add	200.63	
	For >10 To 20, Add	149.82	
	For >20 To 40, Add	62.20	
	For >100 To 150, Deduct	-73.59	
	For >150, Deduct	-147.19	
	For Copper Pipe, Add	84.98	
	For Polyvinyl Chloride (PVC) Pipe, Deduct	-121.78	

21 13 16 00-0008	Extra Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		
21 13 16 00-0009	EA Exposed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head	549.73	
	Note: Includes branch pipe and fittings, supports and sprinkler heads.		
	For Up To 5, Add	254.79	
	For >5 To 10, Add	142.21	
	For >10 To 20, Add	107.31	
	For >20 To 40, Add	44.93	
	For >100 To 150, Deduct	-54.97	
	For >150, Deduct	-109.95	
	For Copper Pipe, Add	65.01	
	For Polyvinyl Chloride (PVC) Pipe, Deduct	-92.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0010 EA Concealed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head.....	685.15	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	321.39	
For >5 To 10, Add	186.84	
For >10 To 20, Add	139.51	
For >20 To 40, Add	57.92	
For >100 To 150, Deduct	-68.52	
For >150, Deduct	-137.03	
For Copper Pipe, Add	79.11	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-113.36	
21 13 16 00-0011 Dry-Pipe Sprinkler System Equipment (21 13 16 00-0001)		
21 13 16 00-0012 EA Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge	2,112.51	387.51
21 13 16 00-0013 EA Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge	2,192.37	387.51
21 13 16 00-0014 EA Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge	2,259.75	387.51
21 13 16 00-0015 EA Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge	2,521.77	387.51
21 13 16 00-0016 Dry Pipe Sprinkler System Components (21 13 16)		
Note: Excludes hydraulic calculations.		
21 13 16 00-0017 Dry Pipe Valves (21 13 16 00-0016)		
Note: Excludes trim package See CSI section 21 13 16 00-0022 for Dry Pipe Valve Trim.		
21 13 16 00-0018 EA 2-1/2" Dry Pipe Valve.....	2,626.05	157.78
21 13 16 00-0019 EA 3" Dry Pipe Valve.....	2,927.81	180.73
21 13 16 00-0020 EA 4" Dry Pipe Valve.....	3,349.43	306.95
21 13 16 00-0021 EA 6" Dry Pipe Valve.....	4,245.96	387.28
21 13 16 00-0022 Dry Pipe Valve Trim (21 13 16 00-0016)		
Note: Includes gauges, pressure switch, air supply and drain lines.		
21 13 16 00-0023 EA 2-1/2" Dry Pipe Valve Trim	1,441.19	333.92
21 13 16 00-0024 EA 3" Dry Pipe Valve Trim.....	1,441.19	333.92
21 13 16 00-0025 EA 4" Dry Pipe Valve Trim.....	1,712.33	457.84
21 13 16 00-0026 EA 6" Dry Pipe Valve Trim.....	2,010.67	636.85
21 13 16 00-0027 Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)		
21 13 16 00-0028 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	196.07	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-13.85	
For >100 To 500, Deduct	-26.53	
For >500 To 1,000, Deduct	-49.07	
For >1,000, Deduct	-65.27	
21 13 16 00-0029 EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	202.70	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.19	
For >100 To 500, Deduct	-27.36	
For >500 To 1,000, Deduct	-50.26	
For >1,000, Deduct	-66.46	
21 13 16 00-0030 EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	209.33	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.52	
For >100 To 500, Deduct	-28.19	
For >500 To 1,000, Deduct	-51.45	
For >1,000, Deduct	-67.66	
21 13 16 00-0031 EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	215.98	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-14.85	
For >100 To 500, Deduct	-29.02	
For >500 To 1,000, Deduct	-52.65	
For >1,000, Deduct	-68.85	
21 13 16 00-0032 EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	222.61	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.18	
For >100 To 500, Deduct	-29.85	
For >500 To 1,000, Deduct	-53.84	
For >1,000, Deduct	-70.05	
21 13 16 00-0033 EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	229.24	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.51	
For >100 To 500, Deduct	-30.68	
For >500 To 1,000, Deduct	-55.04	
For >1,000, Deduct	-71.24	
21 13 16 00-0034 EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head	235.87	26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.84	
For >100 To 500, Deduct	-31.51	
For >500 To 1,000, Deduct	-56.23	
For >1,000, Deduct	-72.43	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0035	EA	24"	To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	242.51	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-16.18	
			<i>For >100 To 500, Deduct</i>	-32.34	
			<i>For >500 To 1,000, Deduct</i>	-57.43	
			<i>For >1,000, Deduct</i>	-73.63	
21 13 16 00-0036	EA	27"	To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	249.13	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-16.51	
			<i>For >100 To 500, Deduct</i>	-33.17	
			<i>For >500 To 1,000, Deduct</i>	-58.62	
			<i>For >1,000, Deduct</i>	-74.82	
21 13 16 00-0037	EA	30"	To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	255.77	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-16.84	
			<i>For >100 To 500, Deduct</i>	-34.00	
			<i>For >500 To 1,000, Deduct</i>	-59.81	
			<i>For >1,000, Deduct</i>	-76.02	
21 13 16 00-0038	EA	33"	To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	262.41	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-17.17	
			<i>For >100 To 500, Deduct</i>	-34.83	
			<i>For >500 To 1,000, Deduct</i>	-61.01	
			<i>For >1,000, Deduct</i>	-77.21	
21 13 16 00-0039	EA	36"	To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	269.04	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-17.50	
			<i>For >100 To 500, Deduct</i>	-35.66	
			<i>For >500 To 1,000, Deduct</i>	-62.20	
			<i>For >1,000, Deduct</i>	-78.40	
21 13 16 00-0040	EA	39"	To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	275.69	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-17.84	
			<i>For >100 To 500, Deduct</i>	-36.49	
			<i>For >500 To 1,000, Deduct</i>	-63.40	
			<i>For >1,000, Deduct</i>	-79.60	
21 13 16 00-0041	EA	42"	To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	282.31	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-18.17	
			<i>For >100 To 500, Deduct</i>	-37.31	
			<i>For >500 To 1,000, Deduct</i>	-64.59	
			<i>For >1,000, Deduct</i>	-80.79	
21 13 16 00-0042	EA	45"	To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	288.95	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-18.50	
			<i>For >100 To 500, Deduct</i>	-38.14	
			<i>For >500 To 1,000, Deduct</i>	-65.78	
			<i>For >1,000, Deduct</i>	-81.99	
21 13 16 00-0043			Sidewall Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)		
21 13 16 00-0044	EA	3-1/2"	To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	194.47	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-13.77	
			<i>For >100 To 500, Deduct</i>	-26.33	
			<i>For >500 To 1,000, Deduct</i>	-48.78	
			<i>For >1,000, Deduct</i>	-64.98	
21 13 16 00-0045	EA	6"	To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	201.11	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-14.11	
			<i>For >100 To 500, Deduct</i>	-27.16	
			<i>For >500 To 1,000, Deduct</i>	-49.97	
			<i>For >1,000, Deduct</i>	-66.18	
21 13 16 00-0046	EA	9"	To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head	207.76	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-14.44	
			<i>For >100 To 500, Deduct</i>	-28.00	
			<i>For >500 To 1,000, Deduct</i>	-51.17	
			<i>For >1,000, Deduct</i>	-67.37	
21 13 16 00-0047	EA	12"	To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	214.37	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-14.77	
			<i>For >100 To 500, Deduct</i>	-28.82	
			<i>For >500 To 1,000, Deduct</i>	-52.36	
			<i>For >1,000, Deduct</i>	-68.56	
21 13 16 00-0048	EA	15"	To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	221.01	26.74
			<i>For >25 To 50, Deduct</i>	-4.05	
			<i>For >50 To 100, Deduct</i>	-15.10	
			<i>For >100 To 500, Deduct</i>	-29.65	
			<i>For >500 To 1,000, Deduct</i>	-53.56	
			<i>For >1,000, Deduct</i>	-69.76	



Fire Suppression	21	
Water-Based Fire-Suppression Systems	21 10	12
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0049 EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 227.64		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.43	
For >100 To 500, Deduct	-30.48	
For >500 To 1,000, Deduct	-54.75	
For >1,000, Deduct	-70.95	
21 13 16 00-0050 EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 234.29		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-15.77	
For >100 To 500, Deduct	-31.31	
For >500 To 1,000, Deduct	-55.95	
For >1,000, Deduct	-72.15	
21 13 16 00-0051 EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 240.92		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.10	
For >100 To 500, Deduct	-32.14	
For >500 To 1,000, Deduct	-57.14	
For >1,000, Deduct	-73.34	
21 13 16 00-0052 EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 247.54		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.43	
For >100 To 500, Deduct	-32.97	
For >500 To 1,000, Deduct	-58.33	
For >1,000, Deduct	-74.53	
21 13 16 00-0053 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 254.17		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-16.76	
For >100 To 500, Deduct	-33.80	
For >500 To 1,000, Deduct	-59.52	
For >1,000, Deduct	-75.73	
21 13 16 00-0054 EA 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 260.81		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-17.09	
For >100 To 500, Deduct	-34.63	
For >500 To 1,000, Deduct	-60.72	
For >1,000, Deduct	-76.92	
21 13 16 00-0055 EA 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 267.45		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-17.42	
For >100 To 500, Deduct	-35.46	
For >500 To 1,000, Deduct	-61.91	
For >1,000, Deduct	-78.12	
21 13 16 00-0056 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 287.36		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-18.42	
For >100 To 500, Deduct	-37.95	
For >500 To 1,000, Deduct	-65.50	
For >1,000, Deduct	-81.70	
21 13 16 00-0057 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head 293.99		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-18.75	
For >100 To 500, Deduct	-38.77	
For >500 To 1,000, Deduct	-66.69	
For >1,000, Deduct	-82.90	
21 13 16 00-0058 EA 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head..... 296.64		26.74
For >25 To 50, Deduct	-4.05	
For >50 To 100, Deduct	-18.88	
For >100 To 500, Deduct	-39.11	
For >500 To 1,000, Deduct	-67.17	
For >1,000, Deduct	-83.37	

21 13 19 Preaction Sprinkler Systems (21 13)

21 13 19 00-0001 Complete Preaction Sprinkler Systems (21 13 19)

Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. See CSI section 23 21 13 23-1367 for individual grooved pipe, 23 21 13 23-1440 for individual grooved pipe fittings.

21 13 19 00-0002 Ordinary Hazard, Preaction Sprinkler Systems (21 13 19 00-0001)

21 13 19 00-0003 EA Exposed Piping, Ordinary Hazard, Preaction Sprinkler System, Per Head 556.83		
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	260.18	
For >5 To 10, Add	167.54	
For >10 To 20, Add	111.85	
For >20 To 40, Add	46.57	
For >100 To 150, Deduct	-55.68	
For >150, Deduct	-111.37	

21 13 19 00-0004 Extra Hazard, Preaction Sprinkler Systems (21 13 19 00-0001)

21	21	Fire Suppression
	21 10	Water-Based Fire-Suppression Systems
	21 13	Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 19 00-0005	EA		Exposed Piping, Extra Hazard, Preaction Sprinkler System, Per Head Note: Includes branch pipe and fittings, supports and sprinkler heads.	518.49	
			<i>For Up To 5, Add</i>	242.29	
			<i>For >5 To 10, Add</i>	156.04	
			<i>For >10 To 20, Add</i>	104.19	
			<i>For >20 To 40, Add</i>	43.37	
			<i>For >100 To 150, Deduct</i>	-51.85	
			<i>For >150, Deduct</i>	-103.70	
21 13 26 Deluge Fire-Suppression Sprinkler Systems (21 13)					
21 13 26 00-0001			Deluge Fire-Suppression Sprinkler Systems Equipment (21 13 26) See CSI section 23 21 13 23-0000 for pipe and fittings.		
21 13 26 00-0002			Deluge Valves With Required Trim And Release Equipment (21 13 26 00-0001)		
21 13 26 00-0003	EA		3" Deluge Valve With Trim And Release Equipment	6,433.76	750.27
21 13 26 00-0004	EA		4" Deluge Valve With Trim And Release Equipment	7,367.50	843.99
21 13 26 00-0005	EA		6" Deluge Valve With Trim And Release Equipment	9,244.11	1,227.64
21 13 39 Foam-Water Systems (21 13)					
21 13 39 00-0001			Foam Control Valves And Monitors (21 13 39)		
21 13 39 00-0002			Control Valves (21 13 39 00-0001)		
21 13 39 00-0003	EA		3" Foam Control Valve	3,290.39	750.27
21 13 39 00-0004			Supply Valves (21 13 39 00-0001)		
21 13 39 00-0005	EA		2-1/2" Foam Supply Valve	3,080.17	843.99
21 13 39 00-0006			Proportioners (21 13 39 00-0001)		
21 13 39 00-0007	EA		8" Foam Proportioner	2,900.32	1,227.64
21 13 39 00-0008			Monitors (21 13 39 00-0001)		
21 13 39 00-0009	EA		Oscillating Foam Monitor	3,003.57	168.80
21 13 41 Fire-Suppression Sprinkler Piping (21 13)					
See CSI section 23 21 13 23-0001 for threaded black steel piping, 23 21 13 23-0374 for welded black steel piping, 23 21 13 23-0769 for flanged black steel pipe fittings, 23 21 13 23-1367 for grooved pipe, 23 21 13 23-1440 for grooved pipe fittings, 33 14 13 13-0001 for ductile iron pipe and fittings.					
21 13 41 00-0001			Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41) Note: SDR 13.5		
21 13 41 00-0002			Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41 00-0001)		
21 13 41 00-0003	LF		3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	6.71	2.16
21 13 41 00-0004	LF		1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	7.83	2.29
21 13 41 00-0005	LF		1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	9.52	2.57
21 13 41 00-0006	LF		1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	11.40	2.84
21 13 41 00-0007	LF		2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	14.26	3.11
21 13 41 00-0008	LF		2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	18.93	3.51
21 13 41 00-0009	LF		3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	25.80	4.19
21 13 41 00-0010			Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0011	EA		3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	34.12	12.96
21 13 41 00-0012	EA		1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	44.36	16.20
21 13 41 00-0013	EA		1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	55.48	20.26
21 13 41 00-0014	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	62.83	22.42
21 13 41 00-0015	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	70.95	25.12
21 13 41 00-0016	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	87.22	28.50
21 13 41 00-0017	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	105.91	33.76
21 13 41 00-0018			Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0019	EA		3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	34.72	12.96
21 13 41 00-0020	EA		1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	43.39	16.20
21 13 41 00-0021	EA		1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	54.75	20.26
21 13 41 00-0022	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	61.66	22.42
21 13 41 00-0023	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	69.49	25.12
21 13 41 00-0024	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	83.56	28.50
21 13 41 00-0025	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	101.89	33.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	50.92	19.44
21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	65.61	24.44
21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	83.04	30.52
21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	94.39	33.76
21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	108.99	37.54
21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	131.33	42.81
21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	155.17	50.50
21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	60.75	22.82
21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	78.17	28.50
21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	87.24	31.47
21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	101.57	35.11
21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	118.75	39.97
21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	139.91	47.13
21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	68.48	25.93
21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	85.86	32.54
21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	107.89	40.64
21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	121.00	44.97
21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	139.58	50.10
21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	173.70	56.98
21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	23.24	8.64
21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	31.16	11.61
21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	41.19	15.25
21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	46.57	16.88
21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	53.02	18.77
21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	62.68	21.33
21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping	75.22	25.26
21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	11.79	4.32
21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	18.82	7.02
21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	21.30	7.57
21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	24.18	8.37
21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	28.20	9.45
21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	33.51	10.67
21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	42.58	12.69
21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	33.28	12.83
21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	43.94	16.74
21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	48.58	18.50
21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	55.02	20.66
21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	64.54	23.50
21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping	78.08	27.82
21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	28.03	9.45
21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	36.53	12.83
21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0075 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	28.03	9.45
21 13 41 00-0076 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	36.53	12.83
21 13 41 00-0077 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		

21	21 Fire Suppression
	21 10 Water-Based Fire-Suppression Systems
	21 13 Fire-Suppression Sprinkler Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0078 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	33.14	11.61
21 13 41 00-0079 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	42.15	14.58
21 13 41 00-0080 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	43.37	14.58
21 13 41 00-0081 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0082 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	54.64	19.44
21 13 41 00-0083 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	67.56	24.44
21 13 41 00-0084 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	87.01	30.52
21 13 41 00-0085 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	98.59	33.76
21 13 41 00-0086 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping	114.10	37.54

21 20 Fire-Extinguishing Systems (21)

21 21 Carbon-Dioxide Fire-Extinguishing Systems (21 20)

21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment (21 21)

21 21 16 00-0001 Carbon Dioxide Cylinders (21 21 16)

21 21 16 00-0002 EA Carbon Dioxide Simplex Cylinder, 75 LB	2,182.01	285.29
21 21 16 00-0003 EA Carbon Dioxide Duplex Cylinder, 75 LB (Each)	4,364.01	570.57
21 21 16 00-0004 EA Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket	349.30	145.24
21 21 16 00-0005 EA Carbon Dioxide Cylinder, Dispersion Nozzle	153.52	52.13
21 21 16 00-0006 LF Carbon Dioxide Cylinder, 1/2" Rubber Tubing	42.30	21.14

21 22 Clean-Agent Fire-Extinguishing Systems (21 20)

21 22 16 Clean-Agent Fire-Extinguishing Equipment (21 22)

21 22 16 00-0001 Ansul Fire Control Systems (21 22 16)

21 22 16 00-0002 Sapphire® Fire Suppression Systems (21 22 16 00-0001)

Note: ANSUL® SAPPPIRE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.

21 22 16 00-0003 Cylinders, Sapphire® Fire Suppression Systems (21 22 16 00-0002)

21 22 16 00-0004 EA 20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635)	1,532.96	97.26
Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0005 EA 40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636)	1,741.63	97.26
Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0006 EA 80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637)	1,769.06	97.26
Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0007 EA 140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638)	2,507.30	129.67
Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0008 EA 280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639)	2,645.24	129.67
Note: 116 to 280 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0009 EA 390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640)	2,838.24	162.10
Note: 161 to 388 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0010 EA 450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641)	3,006.43	162.10
Note: 194 to 459 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0011 EA 850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586)	4,512.06	194.51
Note: 375 to 851 LB tank capacity. Excludes Sapphire agent.		
21 22 16 00-0012 LB Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230)	37.27	194.51
Note: Add to empty tank cost.		

21 22 16 00-0013 Nozzles, Sapphire® Fire Suppression Systems (21 22 16 00-0002)

21 22 16 00-0014 EA 1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515)	149.89	16.21
21 22 16 00-0015 EA 3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516)	153.44	16.21
21 22 16 00-0016 EA 1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517)	162.35	16.21
21 22 16 00-0017 EA 1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518)	168.58	16.21
21 22 16 00-0018 EA 1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519)	177.48	16.21
21 22 16 00-0019 EA 2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520)	204.17	16.21
21 22 16 00-0020 EA 1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602)	149.89	16.21
21 22 16 00-0021 EA 3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603)	153.44	16.21
21 22 16 00-0022 EA 1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604)	162.35	16.21
21 22 16 00-0023 EA 1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605)	168.58	16.21
21 22 16 00-0024 EA 1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606)	177.48	16.21
21 22 16 00-0025 EA 2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607)	204.17	16.21



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0026 Actuation Attachments, Sapphire® Fire Suppression System <small>(21 22 16 00-0002)</small>		
21 22 16 00-0027 EA 7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....	15.22	4.86
21 22 16 00-0028 EA 7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811).....	16.75	4.86
21 22 16 00-0029 EA 1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338).....	25.20	11.35
21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597).....	53.22	14.53
21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142).....	75.31	14.53
21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815).....	89.40	14.53
21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336).....	48.13	14.53
21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....	349.23	129.67
21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549).....	322.65	97.26
21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....	680.29	129.67
21 22 16 00-0037 Nameplates, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580).....	53.78	16.21
21 22 16 00-0039 EA Warning Plate for Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581).....	57.79	16.21
21 22 16 00-0040 Cylinder Bracketing, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085).....	164.90	48.63
21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085).....	172.90	48.63
21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336).....	183.14	48.63
21 22 16 00-0044 Check Valves, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566).....	396.21	51.61
21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568).....	562.09	88.57
21 22 16 00-0047 Discharge Hose, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539).....	135.14	32.42
21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538).....	462.65	32.42
21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990).....	392.33	32.42
21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841).....	1,708.15	129.67
21 22 16 00-0052 Swivel Adaptors, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557).....	50.76	22.70
21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558).....	84.03	22.70
21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471).....	219.31	16.21
21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470).....	285.92	16.21
21 22 16 00-0057 Pressure Switches, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585).....	188.85	64.84
21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156).....	171.05	27.23
21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250).....	541.08	113.46
21 22 16 00-0061 Level Indicators, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277).....	577.55	22.70
21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278).....	604.26	22.70
21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589).....	651.29	32.42
21 22 16 00-0065 Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342).....	53.14	19.45
21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642).....	65.75	22.70
21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579).....	230.28	97.26
21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576).....	260.81	97.26
21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....	286.17	97.26
21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....	368.05	97.26
21 22 16 00-0072 Replacement Parts, Sapphire® Fire Suppression Systems <small>(21 22 16 00-0002)</small>		
21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559).....	64.67	25.94
21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553).....	93.38	16.21
21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053).....	131.15	32.42
21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543).....	367.93	129.67
21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551).....	523.66	129.67
21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535).....	1,615.59	129.67
21 22 16 00-0079 Inergen® Fire Suppression System <small>(21 22 16 00-0001)</small>		
21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 22	Clean-Agent Fire-Extinguishing Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082).....	182.63	32.12
21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958).....	211.06	34.52
21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309).....	377.75	62.48
21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876).....	767.96	142.30
21 22 16 00-0085 Check Valves, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0086 EA 2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794).....	1,737.99	187.81
21 22 16 00-0087 Components, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0088 EA 1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378).....	54.41	9.85
21 22 16 00-0089 EA Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700).....	634.69	105.53
21 22 16 00-0090 EA 30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169).....	1,976.58	330.18
21 22 16 00-0091 EA 60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170).....	1,894.63	336.37
21 22 16 00-0092 Cylinders, Inergen® Fire Suppression System (21 22 16 00-0079)		
Note: Includes CV98 valve. Factory filled with Inergen agent.		
21 22 16 00-0093 EA 200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147).....	1,661.60	302.18
21 22 16 00-0094 EA 250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148).....	1,884.76	342.36
21 22 16 00-0095 EA 350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620).....	2,673.89	443.66
21 22 16 00-0096 EA 435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150).....	2,699.28	542.15
21 22 16 00-0097 EA 250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257).....	1,963.18	381.74
21 22 16 00-0098 EA 350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621).....	2,752.90	483.18
21 22 16 00-0099 EA 435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259).....	2,883.24	582.58
21 22 16 00-0100 Inspection/Maintenance Devices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0101 EA CV90 Fill Adaptor To CV98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657).....	62.56	10.99
21 22 16 00-0102 EA CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181).....	62.56	10.99
21 22 16 00-0103 EA CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954).....	74.93	12.21
21 22 16 00-0104 EA Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923).....	1,192.25	209.69
21 22 16 00-0105 Multiple Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0106 EA 13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502).....	19.92	3.21
Note: For single row 435 cubic foot cylinders.		
21 22 16 00-0107 EA 27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503).....	28.28	4.59
Note: For double row 435 cubic foot cylinders.		
21 22 16 00-0108 Nameplates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0109 EA Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265).....	21.97	3.59
21 22 16 00-0110 EA Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266).....	20.44	3.59
21 22 16 00-0111 Nozzle Deflector Shields, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0112 EA 1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708).....	88.80	15.47
21 22 16 00-0113 EA 3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711).....	93.24	16.21
21 22 16 00-0114 EA 1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714).....	108.19	18.72
21 22 16 00-0115 EA 1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717).....	120.77	21.14
21 22 16 00-0116 EA 1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720).....	138.52	24.30
21 22 16 00-0117 Nozzles, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0118 EA 1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908).....	136.17	23.95
21 22 16 00-0119 EA 3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723).....	141.18	24.66
21 22 16 00-0120 EA 1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362).....	130.23	22.83
21 22 16 00-0121 EA 3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363).....	134.06	24.66
21 22 16 00-0122 EA 1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364).....	154.81	27.12
21 22 16 00-0123 EA 1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365).....	165.45	28.88
21 22 16 00-0124 EA 1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366).....	178.19	30.99
21 22 16 00-0125 EA 2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155).....	306.95	54.24
21 22 16 00-0126 EA 2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156).....	405.81	71.15
21 22 16 00-0127 EA 3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137).....	442.54	78.20
21 22 16 00-0128 EA 1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138).....	158.65	28.16
21 22 16 00-0129 EA 3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139).....	187.05	32.97
21 22 16 00-0130 EA 1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140).....	153.91	27.12
21 22 16 00-0131 EA 3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141).....	164.29	28.74
21 22 16 00-0132 EA 1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142).....	165.75	28.88
21 22 16 00-0133 EA 1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143).....	200.10	35.08
21 22 16 00-0134 EA 1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157).....	215.78	38.03
21 22 16 00-0135 EA 2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144).....	331.22	58.37
21 22 16 00-0136 EA 2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145).....	386.86	68.33
21 22 16 00-0137 EA 3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146).....	423.86	74.67
21 22 16 00-0138 Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)		



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Clean-Agent Fire-Extinguishing Systems	21 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0139 EA 1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677).....	178.19	30.99
21 22 16 00-0140 EA 3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678).....	218.76	38.60
21 22 16 00-0141 EA 1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679).....	235.31	41.57
21 22 16 00-0142 EA 1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680).....	331.22	58.37
21 22 16 00-0143 EA 1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681).....	362.00	63.96
21 22 16 00-0144 EA 2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682).....	425.34	74.67
21 22 16 00-0145 EA 2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057).....	494.60	87.55
21 22 16 00-0146 EA 3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058).....	584.87	103.56
21 22 16 00-0147 EA 2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823).....	743.85	204.29
21 22 16 00-0148 EA 3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824).....	950.29	239.52
21 22 16 00-0149 EA 4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825).....	1,245.38	401.54
21 22 16 00-0150 EA 2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847).....	726.93	204.29
21 22 16 00-0151 EA 3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848).....	805.10	142.69
21 22 16 00-0152 EA 4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849).....	1,245.38	401.54
21 22 16 00-0153 EA 2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853).....	741.17	204.29
21 22 16 00-0154 EA 3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854).....	836.77	148.28
21 22 16 00-0155 EA 4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855).....	1,224.02	401.54
21 22 16 00-0156 Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0157 EA 3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344).....	841.53	155.69
21 22 16 00-0158 Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0159 EA 12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 17728).....	1,373.98	241.53
21 22 16 00-0160 EA 24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 31492).....	1,944.62	321.84
21 22 16 00-0161 EA 120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 32525).....	2,054.59	327.39
21 22 16 00-0162 EA Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310).....	96.79	16.65
21 22 16 00-0163 EA LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373).....	116.79	22.05
21 22 16 00-0164 EA Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 28939).....	1,098.97	172.31
21 22 16 00-0165 Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0166 EA 1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095).....	118.90	16.36
21 22 16 00-0167 EA 3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096).....	124.67	17.23
21 22 16 00-0168 EA 1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097).....	130.61	17.52
21 22 16 00-0169 EA 1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098).....	139.79	18.11
21 22 16 00-0170 EA 1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099).....	146.00	19.86
21 22 16 00-0171 EA 2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100).....	147.46	21.47
21 22 16 00-0172 EA 2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984).....	328.83	57.53
21 22 16 00-0173 EA 3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985).....	331.81	58.12
21 22 16 00-0174 EA 4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986).....	425.34	74.47
21 22 16 00-0175 Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0176 EA Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704).....	154.81	27.12
21 22 16 00-0177 EA Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705).....	224.98	61.99
Note: Includes saddle, padding and fasteners.		
21 22 16 00-0178 Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0179 EA 2-1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426856).....	387.72	40.08
Note: Includes gasket and fasteners.		
21 22 16 00-0180 EA 3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426857).....	339.51	59.85
Note: Includes gasket and fasteners.		
21 22 16 00-0181 EA 4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426858).....	752.40	401.54
Note: Includes gasket and fasteners.		
21 22 16 00-0182 EA 2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859).....	212.83	37.44
Note: Includes gasket and fasteners.		
21 22 16 00-0183 EA 3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860).....	249.81	43.68
Note: Includes gasket and fasteners.		
21 22 16 00-0184 EA 4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861).....	747.91	401.54
Note: Includes gasket and fasteners.		
21 22 16 00-0185 EA 2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862).....	221.69	39.21
Note: Includes gasket and fasteners.		
21 22 16 00-0186 EA 3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863).....	259.60	45.69
Note: Includes gasket and fasteners.		
21 22 16 00-0187 EA 4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864).....	770.15	401.54
Note: Includes gasket and fasteners.		

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0188 EA 2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828)	41.01	2.98
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0189 EA 3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829)	41.60	3.27
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0190 EA 4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830)	45.00	3.87
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0191 Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0192 EA Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508)	27.14	4.76
21 22 16 00-0193 EA Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027)	221.73	36.22
21 22 16 00-0194 EA 85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592)	170.14	36.22
Note: Includes upright, left, right and center.		
21 22 16 00-0195 Autopulse® Fire Detection And Control Equipment (21 22 16 00-0001)		
21 22 16 00-0196 Accessory Switches, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0197 EA Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495)	175.22	31.25
21 22 16 00-0198 EA Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494)	199.21	35.63
21 22 16 00-0199 EA Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497)	253.35	45.27
21 22 16 00-0200 EA Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496)	272.89	48.77
21 22 16 00-0201 EA Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499)	341.85	61.33
21 22 16 00-0202 EA Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498)	363.76	65.13
21 22 16 00-0203 EA Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956)	697.63	125.58
21 22 16 00-0204 EA Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490)	55.78	9.35
21 22 16 00-0205 Alarm Devices, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0206 EA Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698)	151.84	27.16
21 22 16 00-0207 EA Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699)	222.58	39.72
21 22 16 00-0208 EA Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702)	20.30	3.62
21 22 16 00-0209 Annunciators, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0210 EA 80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492)	1,750.61	315.12
21 22 16 00-0211 EA 16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496)	1,467.45	264.01
21 22 16 00-0212 EA 16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497)	1,139.19	205.02
21 22 16 00-0213 EA 32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500)	992.11	178.44
21 22 16 00-0214 EA Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501)	992.11	178.44
21 22 16 00-0215 EA Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502)	794.70	142.81
21 22 16 00-0216 EA Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650)	1,467.45	264.01
21 22 16 00-0217 EA 24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651)	298.34	53.45
21 22 16 00-0218 EA 48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652)	374.11	67.17
21 22 16 00-0219 EA 8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653)	750.29	134.92
21 22 16 00-0220 EA Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660)	126.68	22.63
21 22 16 00-0221 EA Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576)	172.54	31.25
Note: For up to 4 LDM modules.		
21 22 16 00-0222 EA Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657)	298.35	53.45
21 22 16 00-0223 Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		
21 22 16 00-0224 EA CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586)	232.91	43.52
21 22 16 00-0225 EA REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639)	14.56	2.98
21 22 16 00-0226 EA REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640)	92.75	3.62
21 22 16 00-0227 EA REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765)	15.95	3.62
21 22 16 00-0228 Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment (21 22 16 00-0195)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0229 EA Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564).....	518.19	97.54
21 22 16 00-0230 EA Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566).....	310.46	58.12
21 22 16 00-0231 Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0232 EA 7 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692).....	225.93	37.38
21 22 16 00-0233 EA 12 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693).....	473.00	79.14
21 22 16 00-0234 EA 18 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694).....	533.97	89.65
21 22 16 00-0235 EA 25 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695).....	693.64	109.23
21 22 16 00-0236 EA 55 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997).....	1,125.47	189.54
21 22 16 00-0237 EA BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578).....	169.31	30.08
21 22 16 00-0238 EA BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079).....	302.79	54.32
Note: Holds six XP5 modules or 25AH battery pack.		
21 22 16 00-0239 EA BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410).....	615.93	110.69
Note: For mounting in BB-55 battery box.		
21 22 16 00-0240 EA Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207).....	1,790.94	322.42
Note: For mounting in BB-55 battery box.		
21 22 16 00-0241 EA 120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563).....	1,309.68	235.68
21 22 16 00-0242 Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0243 EA Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097).....	138.07	24.97
21 22 16 00-0244 EA Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098).....	129.77	24.83
21 22 16 00-0245 EA Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480).....	176.95	35.63
21 22 16 00-0246 EA 2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100).....	259.28	46.44
21 22 16 00-0247 EA NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101).....	202.43	37.67
21 22 16 00-0248 EA Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102).....	190.59	36.22
21 22 16 00-0249 EA Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487).....	30.36	5.78
21 22 16 00-0250 EA Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125).....	111.58	20.44
21 22 16 00-0251 EA Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066).....	111.29	19.86
21 22 16 00-0252 EA HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067).....	44.52	16.36
21 22 16 00-0253 EA Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138).....	10.22	1.81
Note: Converts BX501 to low profile base.		
21 22 16 00-0254 EA Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945).....	107.13	19.13
21 22 16 00-0255 EA EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699).....	62.80	11.28
21 22 16 00-0256 EA XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078).....	169.59	29.79
21 22 16 00-0257 EA BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080).....	88.79	15.77
21 22 16 00-0258 Manual Pull Stations, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0259 EA Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661).....	25.40	4.24
21 22 16 00-0260 EA Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336).....	15.60	2.33
21 22 16 00-0261 Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0262 EA Transmitter Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470).....	222.58	39.72
Note: Includes municipal box and remote station connection.		
21 22 16 00-0263 EA Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control Equipment (Ansul 417471).....	666.61	114.19
21 22 16 00-0264 EA Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul 419411).....	1,278.92	230.13
21 22 16 00-0265 EA Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635).....	34.02	5.96
21 22 16 00-0266 Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0001)</small>		
21 22 16 00-0267 Batteries And Power Supplies, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0268 EA Transformer Only, VSP-TRAN-120, Vesda® Aspirating Smoke Detection System (Ansul 430482).....	171.72	28.04
21 22 16 00-0269 EA Battery Cabinet, VBC-001, Vesda® Aspirating Smoke Detection System (Ansul 430379).....	297.40	42.27

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0270	EA		120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspirating Smoke Detection System (Ansul 430374)	958.93	163.54
21 22 16 00-0271	EA		220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspirating Smoke Detection System (Ansul 430375)	958.93	163.54
21 22 16 00-0272	EA		120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspirating Smoke Detection System (Ansul 430376)	1,440.58	245.32
			Note: Includes housing and battery cab.		
21 22 16 00-0273	EA		220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspirating Smoke Detection System (Ansul 430377)	1,440.58	245.32
			Note: Includes housing and battery cab.		
21 22 16 00-0274	EA		48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspirating Smoke Detection System (Ansul 430378)	2,080.90	312.49
21 22 16 00-0275			Blank Plates, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0276	EA		Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspirating Smoke Detection System (Ansul 430459)	30.91	5.26
21 22 16 00-0277	EA		Blank Plate With VESDA Logo, VSP-000, Vesda® Aspirating Smoke Detection System (Ansul 430458)	45.25	5.26
21 22 16 00-0278	EA		Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspirating Smoke Detection System (Ansul 430484)	66.86	9.93
21 22 16 00-0279	EA		Single Blank Plate, VRE-001, Vesda® Aspirating Smoke Detection System (Ansul 430446)	101.88	11.10
21 22 16 00-0280	EA		Double Blank Plate, VRE-002, Vesda® Aspirating Smoke Detection System (Ansul 430447)	132.36	22.19
21 22 16 00-0281	EA		Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430480)	238.47	28.04
21 22 16 00-0282			Detectors, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0283	EA		LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspirating Smoke Detection System (Ansul 430350)	7,312.75	1,372.62
			Note: Includes 3 blank plates.		
21 22 16 00-0284	EA		LaserPLUS Detector, VLP-012, Vesda® Aspirating Smoke Detection System (Ansul 430354)	9,300.74	1,693.87
			Note: Includes centrally mounted LCD programmer module and standard display.		
21 22 16 00-0285	EA		LaserPLUS Detector, VLP-010, Vesda® Aspirating Smoke Detection System (Ansul 430356)	8,418.30	1,547.85
			Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0286	EA		7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspirating Smoke Detection System (Ansul 430357)	11,650.01	2,044.34
21 22 16 00-0287	EA		12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspirating Smoke Detection System (Ansul 430358)	12,270.04	2,161.16
21 22 16 00-0288	EA		7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspirating Smoke Detection System (Ansul 430359)	11,781.66	2,073.54
			Note: Includes 1 fire alarm (any SCT) and OK/FOK LEDs.		
21 22 16 00-0289	EA		12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspirating Smoke Detection System (Ansul 430360)	12,443.10	2,190.36
			Note: Includes 1 fire alarm (any SCT) and OK/FOK LED.		
21 22 16 00-0290	EA		7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspirating Smoke Detection System (Ansul 430361)	12,811.54	2,277.97
			Note: Includes 2 blank plates and scan display module at far right.		
21 22 16 00-0291	EA		12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspirating Smoke Detection System (Ansul 430363)	13,376.68	2,394.80
			Note: Includes 2 blank plates and scanner display.		
21 22 16 00-0292	EA		7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspirating Smoke Detection System (Ansul 430365)	14,057.24	2,511.61
			Note: Includes centrally mounted programmer module.		
21 22 16 00-0293	EA		12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspirating Smoke Detection System (Ansul 430367)	14,662.43	2,628.43
			Note: Includes centrally mounted LCD programmer module and scanner display module.		
21 22 16 00-0294	EA		12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369)	13,740.97	2,394.80
			Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0295			Displays, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0296	EA		VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381)	2,174.87	321.25
			Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0297	EA		VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385)	2,184.67	321.25
			Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0298	EA		VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383)	1,970.20	292.05
			Note: Includes a remote termination card without relays.		
21 22 16 00-0299	EA		VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387)	1,981.58	292.05
			Note: Includes a remote termination card.		
21 22 16 00-0300	EA		VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389)	2,443.91	350.46
			Note: Includes a remote termination card and 12 relays.		
21 22 16 00-0301	EA		VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391)	2,079.90	303.73
21 22 16 00-0302	EA		VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393)	2,281.22	341.11
21 22 16 00-0303			Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0304	EA		LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370)	5,550.00	963.76
21 22 16 00-0305	EA		LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372)	4,559.04	771.01
21 22 16 00-0306	EA		Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380)	1,622.02	292.05
21 22 16 00-0307	EA		VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395)	1,157.09	189.83
21 22 16 00-0308	EA		System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399)	1,607.63	255.83
21 22 16 00-0309	EA		PC-Link High-Level Interface, VH-X0200, Vesda® Aspirating Smoke Detection System (Ansul 430442)	2,142.32	315.41
			Note: Interface connects PC and LaserPLUS system.		
21 22 16 00-0310	EA		Modem Cable, PC-HLI To Modem Connection, VH-X00090, Vesda® Aspirating Smoke Detection System (Ansul 430443)	302.75	47.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0311 EA Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444)	2,011.83	292.05
21 22 16 00-0312 EA Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460)	1,454.55	242.40
21 22 16 00-0313 EA VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463)	1,140.57	186.91
21 22 16 00-0314 EA Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461)	1,456.68	242.40
21 22 16 00-0315 EA Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464)	1,454.55	242.40
21 22 16 00-0316 EA Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487)	1,432.06	227.80
21 22 16 00-0317 EA Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466)	169.35	20.44
21 22 16 00-0318 EA Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467)	6,930.09	1,121.47
21 22 16 00-0319 EA Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470)	12,080.10	1,962.56
21 22 16 00-0320 EA Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475)	940.17	146.02
21 22 16 00-0321 EA Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477)	21.19	2.92
21 22 16 00-0322 EA Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478)	11.40	0.58
21 22 16 00-0323 EA US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481)	520.15	84.69
21 22 16 00-0324 EA Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483)	630.27	102.80
21 22 16 00-0325 EA Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486)	910.12	148.95
21 22 16 00-0326 EA RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488)	134.23	22.19
21 22 16 00-0327 EA Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502)	21.60	4.67
21 22 16 00-0328 Labels And Decals, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0329 EA Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509)	19.23	3.50
21 22 16 00-0330 EA Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505)	20.42	4.08
21 22 16 00-0331 EA Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506)	30.91	5.26
21 22 16 00-0332 EA Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507)	30.96	5.26
21 22 16 00-0333 EA Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508)	112.64	19.86
21 22 16 00-0334 Mounting Hardware, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0335 EA Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456)	274.50	42.05
21 22 16 00-0336 EA Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472)	369.53	56.07
21 22 16 00-0337 EA Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471)	380.15	61.33
21 22 16 00-0338 EA Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457)	892.24	87.61
21 22 16 00-0339 EA Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445)	1,346.79	192.75
21 22 16 00-0340 Pipe And Fittings, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0341 LF 3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491)	6.72	2.16
21 22 16 00-0342 EA 3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497)	11.91	4.32
21 22 16 00-0343 EA 3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494)	33.49	12.96
21 22 16 00-0344 EA 3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493)	34.30	12.96
21 22 16 00-0345 EA 3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495)	23.43	8.64
21 22 16 00-0346 EA 3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496)	37.09	12.96
21 22 16 00-0347 EA 3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498)	51.13	19.44
21 22 16 00-0348 EA 3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499)	62.85	22.82
21 22 16 00-0349 LF 1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500)	5.72	2.11
21 22 16 00-0350 EA Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479)	21.63	6.43
21 22 16 00-0351 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503)	24.73	4.67
21 22 16 00-0352 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504)	35.31	6.43
21 22 16 00-0353 Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0354 EA VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396)	1,574.91	224.30
Note: Remote box includes 7 relays for VLP/VLC.		
21 22 16 00-0355 EA VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490)	1,621.05	258.17
21 22 16 00-0356 EA 12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485)	981.97	157.71
21 22 16 00-0357 EA RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489)	1,120.94	178.15
21 22 16 00-0358 EA VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397)	1,574.91	224.30
Note: Remote box includes 7 relays for VLS.		

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 22	Clean-Agent Fire-Extinguishing Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0359	EA		VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398) 1,893.84	1,893.84	258.17
			Note: Remote box includes 12 relays for VLS.		
21 22 16 00-0360	EA		Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468) 540.52	540.52	79.43
21 22 16 00-0361	EA		Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469) 814.07	814.07	121.49
21 22 16 00-0362	EA		7-Relay, Head Termination Card, VSP-014, Vesda® Aspirating Smoke Detection System (Ansul 430474) 1,545.11	1,545.11	251.17
21 22 16 00-0363	EA		12-Relay, Head Termination Card, VSP-016, Vesda® Aspirating Smoke Detection System (Ansul 430476) 2,266.44	2,266.44	367.98
21 22 16 00-0364			Preferred® Low Pressure CO2 System (21 22 16 00-0001)		
21 22 16 00-0365			Manual Pull Stations, Preferred® Low Pressure CO2 System (21 22 16 00-0364)		
21 22 16 00-0366	EA		Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658) 122.66	122.66	20.44
			Note: Excludes FMM-101.		
21 22 16 00-0367	EA		Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659) 91.70	91.70	15.19
21 22 16 00-0368			Industrial Fire Control System (21 22 16 00-0001)		
21 22 16 00-0369			Alarm Devices, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0370	EA		Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947) 2,992.29	2,992.29	538.83
21 22 16 00-0371	EA		6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751) 89.34	89.34	12.38
21 22 16 00-0372	EA		24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697) 90.28	90.28	16.07
21 22 16 00-0373	EA		Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700) 53.81	53.81	9.64
21 22 16 00-0374	EA		Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701) 21.97	21.97	3.91
21 22 16 00-0375			Manual Pull Stations, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0376	EA		SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655) 101.38	101.38	16.94
21 22 16 00-0377	EA		DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656) 142.97	142.97	23.95
21 22 16 00-0378	EA		Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657) 1,116.85	1,116.85	188.08
21 22 16 00-0379	EA		Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660) 32.45	32.45	5.43
21 22 16 00-0380	EA		Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654) 14.54	14.54	2.42
21 22 16 00-0381			Marine Fire Control System (21 22 16 00-0001)		
21 22 16 00-0382			Alarm Devices, Marine Fire Control System (21 22 16 00-0381)		
21 22 16 00-0383	EA		Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747) 58.79	58.79	9.81
21 22 16 00-0384	EA		6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805) 108.82	108.82	18.98
21 22 16 00-0385	EA		10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806) 108.82	108.82	18.98
21 22 16 00-0386			FM200 System Equipment (21 22 16)		
21 22 16 00-0387	EA		26 LB Cylinder, Filled, For FM200 Fire Protection system 2,999.81	2,999.81	140.89
21 22 16 00-0388	EA		44 LB Cylinder, Filled, For FM200 Fire Protection system 4,276.10	4,276.10	161.32
21 22 16 00-0389	EA		63 LB Cylinder, Filled, For FM200 Fire Protection system 5,075.14	5,075.14	190.20
21 22 16 00-0390	EA		101 LB Cylinder, Filled, For FM200 Fire Protection system 6,710.51	6,710.51	225.42
21 22 16 00-0391	EA		196 LB Cylinder, Filled, For FM200 Fire Protection system 10,447.30	10,447.30	281.78
21 22 16 00-0392	EA		Electro/Mechanical Release, For FM200 Fire Protection system 810.65	810.65	281.78
21 22 16 00-0393	EA		Manual Pull Station, For FM200 Fire Protection system 280.02	280.02	93.69
21 22 16 00-0394	EA		Pneumatic Damper Release, For FM200 Fire Protection system 315.91	315.91	70.45
21 22 16 00-0395	LB		FM200 Gas 24.04	24.04	
21 22 16 00-0396	EA		Master Cylinder, For FM200 Fire Protection system 4,803.37	4,803.37	75.80
21 22 16 00-0397	EA		Shuttle Check Valve, For FM200 Fire Protection system 746.45	746.45	105.95
21 22 16 00-0398	EA		Flex Head Cylinder, For FM200 Fire Protection system 748.69	748.69	113.56
21 22 16 00-0399	EA		Nozzles, For FM200 Fire Protection system 193.58	193.58	40.15
21 22 16 00-0400	EA		Cylinder Support, For FM200 Fire Protection system 243.90	243.90	75.80
21 22 16 00-0401	EA		Solenoid Valve, For FM200 Fire Protection system 950.01	950.01	113.56
21 22 16 00-0402	EA		Battery Back-Up, For FM200 Fire Protection system 843.24	843.24	299.53
21 22 16 00-0403	EA		Control Panel, Single Zone, For FM200 Fire Protection system 3,802.17	3,802.17	562.71
21 22 16 00-0404	EA		Control Panel, Multi Zone, For FM200 Fire Protection system 6,289.38	6,289.38	1,126.70
21 22 16 00-0405	EA		Smoke Or Heat Detector, For FM200 Fire Protection system 346.35	346.35	113.56
21 22 16 00-0406	EA		Annunciator, For FM200 Fire Protection system 3,061.70	3,061.70	426.47
21 22 16 00-0407	EA		Pressure Switch, For FM200 Fire Protection system 370.09	370.09	113.56
21 22 16 00-0408	EA		Alarm Horn, For FM200 Fire Protection system 344.05	344.05	113.56
21 22 16 00-0409	EA		Testing, For FM200 Fire Protection system 1,448.58	1,448.58	
21 22 16 00-0410	EA		Abort Switch, For FM200 Fire Protection system 222.48	222.48	52.83
21 23 Wet-Chemical Fire-Extinguishing Systems (21 20)					
21 23 16 Wet-Chemical Fire-Extinguishing Equipment (21 23)					
21 23 16 00-0001			Kidde Fire Systems (21 23 16)		
			Note: Kidde or equal.		
21 23 16 00-0002			Cylinders And Hardware (21 23 16 00-0001)		
21 23 16 00-0003	EA		125 Cylinder And Valve Assembly With 1.25 Gallon of Wet Agent 1,092.72	1,092.72	116.71
21 23 16 00-0004	EA		260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent 1,256.67	1,256.67	145.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0005 EA 400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent	1,540.02	179.34
21 23 16 00-0006 EA 600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....	1,818.67	212.80
21 23 16 00-0007 EA Discharge Adapter Kit (One Required Per Cylinder).....	61.20	6.10
21 23 16 00-0008 EA System Valve Actuator	220.09	24.25
21 23 16 00-0009 EA Vent Plug.....	41.32	4.93
21 23 16 00-0010 EA Gauge Shield.....	84.12	12.97
21 23 16 00-0011 EA 125 Cylinder Wall Mounting Bracket.....	113.48	12.97
21 23 16 00-0012 EA 260 Cylinder Wall Mounting Bracket.....	120.29	13.74
21 23 16 00-0013 EA 400S And M Cylinder Wall Mounting Bracket	228.62	25.94
21 23 16 00-0014 EA 600 And 400M Cylinder Shelf Bracket	225.11	29.44
21 23 16 00-0015 EA 600 And 400M Cylinder Floor Mounting Kit	243.51	29.50
21 23 16 00-0016 EA 125 And 260 Cylinder Replacement Bracket Strap.....	34.58	
21 23 16 00-0017 EA 400 And 600 Cylinder Replacement Bracket Strap.....	36.24	
21 23 16 00-0018 Nozzles And Accessories <small>(21 23 16 00-0001)</small>		
21 23 16 00-0019 EA ADP, F, GRW Or R Nozzle.....	101.78	11.93
21 23 16 00-0020 EA LPF Or DM Nozzle.....	110.53	11.93
21 23 16 00-0021 EA LPR Nozzle.....	128.55	11.93
21 23 16 00-0022 EA 3/8" Swivel Adapter For Nozzles.....	76.32	8.43
21 23 16 00-0023 EA Removal And Replacement Of Nozzle Seals.....	12.04	
21 23 16 00-0024 EA Chrome Nozzle Disc Cap.....	7.42	0.77
21 23 16 00-0025 EA LPR Nozzle Disc Cap	37.03	11.86
21 23 16 00-0026 Control Systems <small>(21 23 16 00-0001)</small>		
21 23 16 00-0027 EA XV Control System	1,004.99	77.81
Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit.		
21 23 16 00-0028 EA 7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System).....	89.10	12.97
21 23 16 00-0029 EA 24" High Pressure Hose	104.06	12.97
21 23 16 00-0030 EA 60" High Pressure Hose	137.31	12.97
21 23 16 00-0031 EA XV Solenoid Kit (Electric Actuator), 24 Volt DC	203.13	25.94
21 23 16 00-0032 EA XV Microswitch Kit, SPDT.....	69.26	12.19
21 23 16 00-0033 EA XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release.....	74.25	12.19
21 23 16 00-0034 EA EMT Connector Kit (EMT Connector And O-Ring)	32.75	9.73
21 23 16 00-0035 EA KRS-50 Control Box Assembly.....	569.23	50.25
Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.		
21 23 16 00-0036 EA SPDT Microswitch For KRS-50.....	106.61	12.19
21 23 16 00-0037 EA DPDT Microswitch For KRS-50	192.80	21.14
21 23 16 00-0038 EA SPDT Pressure Switch (Fire Department Tie-In).....	592.31	67.82
21 23 16 00-0039 Mechanical Actuation Components <small>(21 23 16 00-0001)</small>		
21 23 16 00-0040 EA Universal Detector Link Housing Kit, Mechanical Actuation Systems	68.65	19.45
Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.		
21 23 16 00-0041 EA XV Low Profile Link Detector Housing Kit.....	82.12	19.45
Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook.		
21 23 16 00-0042 EA XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip.....	198.81	12.97
21 23 16 00-0043 EA XV Remote Manual Release, Pull-To-Trip.....	153.93	12.97
21 23 16 00-0044 EA Corner Pulley, Mechanical Actuation Systems	29.74	3.50
21 23 16 00-0045 EA Double Tee Pulley, Mechanical Actuation Systems.....	408.47	21.40
21 23 16 00-0046 EA In-Line Tee Pulley, Mechanical Actuation Systems	49.83	5.70
21 23 16 00-0047 EA Corner Pulley / Quik-Seal Adapter Combination.....	81.12	6.48
21 23 16 00-0048 LF 1/16" Cable, Mechanical Actuation Systems	3.14	1.30
21 23 16 00-0049 EA Cable Clamp	11.27	0.64
21 23 16 00-0050 EA Cable Crimp Sleeve, Mechanical Actuation Systems	1.99	0.52
21 23 16 00-0051 EA "S" Hook, Mechanical Actuation Systems.....	1.92	0.52
21 23 16 00-0052 EA 1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems.....	106.31	12.06
21 23 16 00-0053 Mechanical Detection Links <small>(21 23 16 00-0001)</small>		
21 23 16 00-0054 EA KGS Standard Response Link.....	23.12	6.48
21 23 16 00-0055 EA KGS Rapid Response Link	33.27	6.48
21 23 16 00-0056 EA KFA Type "A" Fusible Link.....	28.72	6.48
21 23 16 00-0057 EA KML Type "ML" Fusible Link.....	24.61	6.48
21 23 16 00-0058 EA 500 Degree, KML Type "ML" Fusible Link	34.58	6.48
21 23 16 00-0059 Gas Valves <small>(21 23 16 00-0001)</small>		
21 23 16 00-0060 EA 3/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....	477.74	28.01
21 23 16 00-0061 EA 1" NPT Mechanical Cable Operated Gas Shut-off Valve	520.51	34.50
21 23 16 00-0062 EA 1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....	598.24	43.57
21 23 16 00-0063 EA 1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....	656.76	50.18
21 23 16 00-0064 EA 2" NPT Mechanical Cable Operated Gas Shut-off Valve	709.99	59.26
21 23 16 00-0065 EA 2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve.....	1,175.93	86.62
21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve	1,313.53	100.24
21 23 16 00-0067 EA Pneumatic Release (Single Unit).....	542.66	31.64
21 23 16 00-0068 EA Removal And Replacement Of Cable Block And Set Screw Assembly For Gas Valve	56.02	
21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve.....	498.33	26.07

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve.....	502.24	28.01
21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve.....	774.26	34.50
21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve.....	820.49	43.57
21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve.....	942.01	50.18
21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve.....	1,210.49	59.26
21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve.....	2,000.18	86.62
21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve.....	2,512.28	100.24
21 23 16 00-0077 EA Manual Reset Relay.....	689.44	130.32
21 23 16 00-0078 Liquid Tight Sealing Adapters (21 23 16 00-0001)		
21 23 16 00-0079 EA 3/8" Tubing, Compression Seal Adapter.....	54.63	5.44
21 23 16 00-0080 EA 1/2" Tubing, 1/4" Pipe, Compression Seal Adapter.....	53.84	5.97
21 23 16 00-0081 EA 5/8" Tubing, 3/8" Pipe, Compression Seal Adapter.....	63.23	7.13
21 23 16 00-0082 EA 3/4" Tubing, 1/2" Pipe, Compression Seal Adapter.....	72.94	7.65
21 23 16 00-0083 EA 1/2" Electrical Metallic Tubing (EMT), Compression Seal Adapter.....	63.23	7.13
21 23 16 00-0084 EA 3/8" NPT Female, Quik-Seal Adapter.....	53.84	5.97
21 23 16 00-0085 EA 1/2" NPT Female, Quik-Seal Adapter.....	53.84	5.97
21 23 16 00-0086 EA 3/4" NPT Female, Quik-Seal Adapter.....	88.43	10.11
21 23 16 00-0087 EA 1" NPT Female, Quik-Seal Adapter.....	117.74	13.36
21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter.....	53.84	
21 23 16 00-0089 Pressure Operated Releasing Systems (21 23 16 00-0001)		
21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder.....	391.53	39.17
21 23 16 00-0091 EA KRS-100 Actuator Assembly.....	351.10	39.94
21 23 16 00-0092 EA KRS-100 Mounting Bracket.....	275.09	9.86
21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder.....	1,008.09	112.95
21 23 16 00-0094 EA KRS-700 Mounting Bracket.....	214.59	24.12
21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit.....	324.62	24.12
21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems.....	321.19	17.11
21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems.....	98.90	10.90
21 23 16 00-0098 EA Removal And Replacement Of Receiver Gasket For KRS-100 Actuator Assembly.....	13.04	
21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch.....	808.04	90.78
21 23 16 00-0100 Pyro-Chem Kitchen Fire Suppression Systems (21 23 16)		
21 23 16 00-0101 Cylinders, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194).....	656.50	92.07
21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193).....	945.73	132.66
21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196).....	1,248.36	181.41
21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053).....	136.98	21.66
21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208).....	901.20	141.60
21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966).....	550.24	86.36
21 23 16 00-0108 Fusible Links, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0109 EA 165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522).....	17.76	2.86
21 23 16 00-0110 EA 212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523).....	17.76	2.86
21 23 16 00-0111 EA 280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524).....	18.13	2.86
21 23 16 00-0112 EA 360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525).....	17.76	2.86
21 23 16 00-0113 EA 450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526).....	17.76	2.86
21 23 16 00-0114 EA 500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527).....	19.10	2.86
21 23 16 00-0115 EA Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131).....	30.79	4.80
21 23 16 00-0116 EA Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132).....	40.01	6.36
21 23 16 00-0117 EA Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876).....	71.27	32.81
21 23 16 00-0118 EA 225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6).....	395.65	73.01
21 23 16 00-0119 Gas Valves, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0120 EA 3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593).....	301.07	28.01
21 23 16 00-0121 EA 1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594).....	345.26	34.50
21 23 16 00-0122 EA 1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595).....	378.33	43.57
21 23 16 00-0123 EA 1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596).....	418.08	50.05
21 23 16 00-0124 EA 2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049).....	482.33	59.14
21 23 16 00-0125 EA 2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185).....	1,077.78	86.49
21 23 16 00-0126 EA 3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186).....	1,157.08	100.11
21 23 16 00-0127 EA 3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358).....	241.62	28.01
21 23 16 00-0128 EA 1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359).....	400.25	34.50
21 23 16 00-0129 EA 1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360).....	424.39	43.57
21 23 16 00-0130 EA 1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361).....	483.45	50.05
21 23 16 00-0131 EA 2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362).....	660.64	59.14
21 23 16 00-0132 EA 2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363).....	1,253.10	86.49
21 23 16 00-0133 EA 3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643).....	1,329.45	100.11
21 23 16 00-0134 Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0135 EA Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	63.35	9.60
21 23 16 00-0136 EA Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	88.67	12.19



Fire Suppression	21	
Fire-Extinguishing Systems	21 20	12
Wet-Chemical Fire-Extinguishing Systems	21 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0137 EA Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem)	311.48	12.19
21 23 16 00-0138 Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0139 EA Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059).....	23.55	3.76
21 23 16 00-0140 EA PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104)	771.11	121.76
21 23 16 00-0141 EA PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690)	983.03	155.74
21 23 16 00-0142 Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0143 EA 24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303)	504.14	79.75
21 23 16 00-0144 EA 120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302)	608.24	96.09
21 23 16 00-0145 Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0146 EA Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203).....	556.19	87.92
21 23 16 00-0147 EA Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200).....	580.72	91.94
21 23 16 00-0148 EA 24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201)	756.20	119.56
21 23 16 00-0149 EA 120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202)	867.74	137.46
21 23 16 00-0150 EA Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853)	70.49	11.15
21 23 16 00-0151 Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0152 EA Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670).....	16.80	1.81
21 23 16 00-0153 EA Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250)	17.63	2.33
21 23 16 00-0154 EA Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166).....	56.50	8.94
21 23 16 00-0155 EA Removal And Replacement Of Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272).....	0.79	
21 23 16 00-0156 Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0157 EA SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227).....	61.42	9.73
21 23 16 00-0158 EA DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237)	122.99	19.33
21 23 16 00-0159 EA Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978)	260.26	40.98
21 23 16 00-0160 Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0161 LF 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821)	1.37	0.39
21 23 16 00-0162 EA Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122).....	0.96	0.39
21 23 16 00-0163 EA High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551).....	3.04	0.52
21 23 16 00-0164 EA "S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121).....	0.64	
21 23 16 00-0165 Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0166 EA Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698)	58.45	9.34
21 23 16 00-0167 EA Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831)	60.99	9.73
21 23 16 00-0168 EA Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705)	7.13	1.17
21 23 16 00-0169 EA 225 psi, Wet Gage, Kitchen Fire Suppression Systems (Pyro-Chem 551236)	83.29	12.71
21 23 16 00-0170 EA Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....	11.74	1.81
21 23 16 00-0171 EA Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707)	16.37	2.60
21 23 16 00-0172 EA Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715)	7.13	1.17
21 23 16 00-0173 EA Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528).....	10.08	1.56
21 23 16 00-0174 EA Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529).....	9.85	1.56
21 23 16 00-0175 EA Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530).....	2.82	0.39
21 23 16 00-0176 EA Removal And Replacement Of Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257)	4.75	
21 23 16 00-0177 EA O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063)	91.16	
21 23 16 00-0178 EA 3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024)	608.99	
21 23 16 00-0179 EA 4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902)	796.41	
21 23 16 00-0180 EA 6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901)	922.82	
21 23 16 00-0181 Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0182 EA 3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857)	28.55	4.41
21 23 16 00-0183 EA 1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859)	29.60	4.67
21 23 16 00-0184 EA Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788)	56.96	8.94
21 23 16 00-0185 EA Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240).....	80.61	
21 23 16 00-0186 EA 3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188).....	173.24	
21 23 16 00-0187 Pull Stations/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0188 EA Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074)	115.24	18.28
21 23 16 00-0189 EA Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166)	128.67	25.67
21 23 16 00-0190 EA Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088).....	30.79	4.80
21 23 16 00-0191 EA Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661)	4.97	1.69

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0192 Asco Gas Valve Control Panels <small>(21 23 16)</small>		
21 23 16 00-0193 EA Relay Control Panel For AC Solenoid Valves (Asco 108D90C).....	2,214.85	285.29
21 23 16 00-0194 EA Relay Control Panel For DC Solenoid Valves (Asco 108D10C).....	2,283.12	285.29
21 23 16 00-0195 EA Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89).....	726.80	64.84
21 23 16 00-0196 EA Emergency Stop Station For Relay Control Panel (Asco 173A19).....	682.20	64.84
21 24 Dry-Chemical Fire-Extinguishing Systems <small>(21 20)</small>		
21 24 16 Dry-Chemical Fire-Extinguishing Equipment <small>(21 24)</small>		
21 24 16 00-0001 Amerex KP Restaurant Fire Suppression Systems <small>(21 24 16)</small>		
Note: Amerex or equal.		
21 24 16 00-0002 EA 3.75 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	685.90	100.63
21 24 16 00-0003 EA 6 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	953.68	126.90
21 24 16 00-0004 EA Recharge - KP Liquid Agent (3.75 Gallon).....	226.50	
21 24 16 00-0005 EA Recharge - KP Liquid Agent (6 Gallon).....	398.16	
21 24 16 00-0006 EA 3.75 Gallon, Bracket Assembly Agent Cylinder With Distribution Hose Assembly And Distribution Outlet.....	158.56	21.13
21 24 16 00-0007 EA 6 Gallon, Bracket Assembly Agent Cylinder.....	92.36	12.25
21 24 16 00-0008 EA 6 Gallon, 3/4 NPT, Agent Cylinder Discharge Adapter Kit.....	40.05	
21 24 16 00-0009 EA 6 Gallon, Pneumatic Actuator, Agent Cylinder.....	158.56	21.13
21 24 16 00-0010 EA MRM Actuator (Less N2 Cylinder And Enclosure).....	398.16	52.96
21 24 16 00-0011 EA Painted Steel, MRM Enclosure.....	212.20	28.17
21 24 16 00-0012 EA Stainless Steel, MRM Enclosure.....	257.70	28.17
21 24 16 00-0013 EA Stainless Steel, Single Cylinder System Cabinet.....	631.83	84.08
21 24 16 00-0014 EA N2 - 1/4" x 16" Actuation Hose.....	47.68	6.34
21 24 16 00-0015 EA 10 CU. Inch, Nitrogen Cylinder.....	212.20	28.17
Note: Use For 1-10 Agent Cylinders		
21 24 16 00-0016 EA Vent Check.....	38.15	5.07
21 24 16 00-0017 EA Detector.....	28.61	3.80
Note: Includes bracket, linkage and conduit fittings.		
21 24 16 00-0018 EA 280 To 450 Degree F, Fusible Link.....	10.74	1.41
21 24 16 00-0019 EA Test Link.....	3.65	
21 24 16 00-0020 EA Corner Pulley.....	14.78	1.97
21 24 16 00-0021 EA 1/16", 500 Foot Spool, Cable.....	238.41	31.69
21 24 16 00-0022 EA Pulley Tee.....	107.28	14.23
21 24 16 00-0023 EA Manual Pull Station (Standard).....	95.36	12.67
21 24 16 00-0024 EA Manual Pull Station, Adapter Kit (Recess Standard Pull Station).....	44.73	5.91
21 24 16 00-0025 EA Manual Pull Station (Oversized).....	106.33	14.09
21 24 16 00-0026 EA Conduit Offset.....	21.22	2.82
21 24 16 00-0027 EA 3/8" Pipe Thread, Seal (Quick-Seal).....	29.24	3.94
21 24 16 00-0028 EA 1/2" Pipe Thread, Seal (Quick-Seal).....	23.85	3.24
21 24 16 00-0029 EA 3/8" Pipe Compression Seal.....	39.81	5.35
21 24 16 00-0030 EA 1/2" Pipe Compression Seal.....	39.81	5.35
21 24 16 00-0031 EA Cap, Nozzle Blow-Off (Standard).....	11.67	3.66
21 24 16 00-0032 EA Cap, Nozzle Blow-Off (High Temperature).....	26.54	3.66
21 24 16 00-0033 EA 2 Flow Points, Fryer/Griddle Nozzle.....	47.68	6.34
21 24 16 00-0034 EA 1 Flow Point Each, Appliance, Plenum Nozzle.....	47.68	6.34
21 24 16 00-0035 EA Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each.....	47.68	6.34
21 24 16 00-0036 EA 1/2 Flow Points Each, Upright Charbroiler Nozzle.....	47.68	6.34
21 24 16 00-0037 EA 2 Flow Points Each, Duct (Only) Nozzle.....	47.68	6.34
21 24 16 00-0038 EA 2 Flow Points Each, Four Burner Range Nozzle.....	68.57	9.15
21 24 16 00-0039 EA 3/4" Or 1" Mechanical Gas Valve.....	377.39	37.32
21 24 16 00-0040 EA 1-1/4" Or 1-1/2" Mechanical Gas Valve.....	446.20	54.22
21 24 16 00-0041 EA 2" Mechanical Gas Valve.....	555.17	64.08
21 24 16 00-0042 EA Manual Reset Relay (Required With Every Electric Gas Valve).....	600.80	79.86
21 24 16 00-0043 EA SPDT Microswitch With 18" Leads.....	31.63	4.22
21 24 16 00-0044 EA Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve.....	51.02	6.76
21 24 16 00-0045 EA Gas Valve Trip Assembly.....	107.29	14.23
21 24 16 00-0046 Range Guard Fire Suppression Systems <small>(21 24 16)</small>		
Note: Range Guard or equal.		
21 24 16 00-0047 EA 1-1/4 Gallon Charged Cylinder With Valve.....	728.53	108.79
21 24 16 00-0048 EA 2-1/2 Gallon Charged Cylinder With Valve.....	909.41	135.77
21 24 16 00-0049 EA 4 Gallon Charged Cylinder With Valve.....	1,122.72	167.67
21 24 16 00-0050 EA 6 Gallon Charged Cylinder With Valve.....	1,333.55	199.05
21 24 16 00-0051 EA Vent Plug.....	30.61	4.54
21 24 16 00-0052 EA Discharge Adapter Kit.....	39.42	
21 24 16 00-0053 EA 1-1/4 Gallon Wall Bracket.....	81.09	12.06
21 24 16 00-0054 EA 2-1/2 Gallon Wall Bracket.....	85.82	12.84
21 24 16 00-0055 EA 4 Gallon Wall Bracket.....	162.08	24.25
21 24 16 00-0056 EA 6 Gallon Wall Bracket.....	179.63	26.84
21 24 16 00-0057 EA Mechanical Control Head, No Microswitch.....	633.72	94.66
21 24 16 00-0058 EA Mechanical Control Head, 1 Microswitch.....	661.16	98.68
21 24 16 00-0059 EA Mechanical Control Head, 2 Microswitches.....	758.46	113.21
21 24 16 00-0060 EA Tandem Control Head.....	576.34	86.11
21 24 16 00-0061 EA Electric Control Head, 120 Volt AC / 24 Volt DC.....	975.52	145.63
21 24 16 00-0062 EA Mechanical Control Box.....	434.12	64.84
21 24 16 00-0063 EA Tandem Control Box.....	434.12	64.84
21 24 16 00-0064 EA Mechanical Control Box Adapter.....	127.24	19.06



			Fire Suppression	21
			Fire-Extinguishing Systems	21 20
			Dry-Chemical Fire-Extinguishing Systems	21 24

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0065	EA		A+ Control head With 1 Pressure Operated Actuator	382.39	57.05
21 24 16 00-0066	EA		Pressure Operated Actuator	157.18	23.47
21 24 16 00-0067	EA		BMCS-1 Nitrogen Cylinder.....	254.49	38.00
21 24 16 00-0068	EA		BMCS-1 Actuator Assembly	259.48	38.77
21 24 16 00-0069	EA		BMCS-1 Mounting Bracket	63.61	9.47
21 24 16 00-0070	EA		BMCS-7 Nitrogen Cylinder.....	734.30	109.58
21 24 16 00-0071	EA		BMCS-7 Mounting Bracket	157.18	23.47
21 24 16 00-0072	EA		BMCS-7 Discharge Adapter Kit	157.18	23.47
21 24 16 00-0073	EA		Check Valve.....	133.52	27.88
21 24 16 00-0074	EA		Vent Check For Use With BMCS Systems	71.11	10.63
21 24 16 00-0075	EA		Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator	30.94	4.62
21 24 16 00-0076	EA		Removal And Replacement Of Receiver Gasket For BMCS-Actuator Assembly	8.14	
21 24 16 00-0077	EA		Pneumatic Control Head For Slave Cylinders.....	162.17	24.25
21 24 16 00-0078	EA		Nozzles; ADP, F, R And GRW	74.35	11.15
21 24 16 00-0079	EA		Nozzles; DM And LPF	82.83	12.31
21 24 16 00-0080	EA		Swivel Adapter.....	52.39	7.78
21 24 16 00-0081	EA		Corner Pulley.....	22.45	3.37
21 24 16 00-0082	LF		1/16" Stainless Steel Cable	1.02	0.39
21 24 16 00-0083	EA		Cable Crimp Sleeve.....	1.24	0.39
21 24 16 00-0084	EA		"S" Hook	0.95	0.26
21 24 16 00-0085	EA		Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT	77.31	11.54
21 24 16 00-0086	EA		Cable Clamp	6.89	1.04
21 24 16 00-0087	EA		Nico Sleeves - 1/16" Cable.....	0.96	0.26
21 24 16 00-0088	EA		3/8" Cable Anchor.....	81.70	12.19
21 24 16 00-0089	EA		1/2" Cable Anchor.....	81.70	12.19
21 24 16 00-0090	EA		Mechanical Remote Manual Release (Pull Cable).....	132.16	19.71
21 24 16 00-0091	EA		Tee Pulley, Use For Mechanical Pull And Gas Valve	141.04	21.01
21 24 16 00-0092	EA		Surface Remote Manual Release, End-of-line.....	165.24	24.64
21 24 16 00-0093	EA		Surface Remote Manual Release, In line Conservation Kit	51.77	7.78
21 24 16 00-0094	EA		Surface Remote Manual Release, In line And End Of Line	216.94	32.28
21 24 16 00-0095	EA		Recessed Remote Manual Release, End-of-line	165.24	24.64
21 24 16 00-0096	EA		Recessed Remote Manual Release, In Line Kit.....	196.99	29.44
21 24 16 00-0097	EA		Pulley Tee, Remote In Line Only	35.40	5.31
21 24 16 00-0098	EA		Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve.....	39.31	5.84
21 24 16 00-0099	EA		Fusible Link 165F To 360F	12.87	1.94
21 24 16 00-0100	EA		Fusible Link 500F	20.14	1.94
21 24 16 00-0101	EA		Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves	39.31	5.84
21 24 16 00-0102	EA		Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve	29.25	5.84
21 24 16 00-0103	EA		Quartzoid Link 400 F	211.95	31.64
21 24 16 00-0104	EA		Quartzoid Link 500 F	211.95	31.64
21 24 16 00-0105	EA		SPDT Micro Switch For Use With A Plus Control Box	75.97	11.28
21 24 16 00-0106	EA		DPDT Micro Switch For Use With A Plus Control Box	132.16	19.71
21 24 16 00-0107	EA		SPDT Micro Switch For Use With A Mechanical Control Box	78.54	11.67
21 24 16 00-0108	EA		DPDT Micro Switch For Use With A Mechanical Control Box	136.12	20.36
21 24 16 00-0109	EA		SPDT Micro Switch For Use With PRCB.....	99.74	14.91
21 24 16 00-0110	EA		DPDT Micro Switch For Use With PRCB.....	143.88	21.40
21 24 16 00-0111	EA		Pressure Switch, SPDT (Fire Dept. Tie In)	421.41	62.89
21 24 16 00-0112	EA		Circuit Monitor 12 Or 24 Volt DC	189.51	28.27
21 24 16 00-0113	EA		Circuit Monitor 120 Volt AC.....	189.51	28.27
21 24 16 00-0114	EA		Electric Manual Pull Station	138.39	20.61
21 24 16 00-0115	EA		6", 24 Volt DC, Motor Bell	77.30	11.54
21 24 16 00-0116	EA		10", 115 Volt AC Motor Bell	109.72	16.34
21 24 16 00-0117	EA		Fuse, 1.2 For ECH.....	8.89	1.30
21 24 16 00-0118	EA		Indicator Lamp 12 Or 24 Volt DC.....	39.31	5.84
21 24 16 00-0119	EA		Indicator Lamp 120 Volt AC	39.31	5.84
21 24 16 00-0120	EA		B-10 Manual Station Dual Action, SPDT	144.63	21.53
21 24 16 00-0121	EA		B-11 Manual Station Dual Action, DPDT	159.59	23.86
21 24 16 00-0122	EA		Break Rods For B10/B11 Manual Pull Station	4.41	1.69
21 24 16 00-0123	EA		Spare Key For B10/B11 Manual Stations	19.95	2.98
21 24 16 00-0124	EA		MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill	214.44	32.03
21 24 16 00-0125	EA		Suppression Abort Station	226.92	33.84
21 24 16 00-0126	EA		Suppression Abort Station With Surface Mount Back Box.....	264.31	39.42
21 24 16 00-0127	EA		Surface Mount Back Box	87.28	12.97
21 24 16 00-0128	EA		Single Hazard Control Unit, 120 Volt AC IP	1,620.79	241.58
21 24 16 00-0129	EA		Single Hazard Control Unit, 240 Volt AC IP	1,620.79	241.58
21 24 16 00-0130	EA		1 Lead Acid Battery; 24 Volt DC, 1.2 A.H.	134.65	20.10
21 24 16 00-0131	EA		Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W)	5.21	0.91
21 24 16 00-0132	EA		Spare Scorpio Circuit Board	1,171.88	
21 24 16 00-0133	EA		Extra Scorpio Key	19.95	
21 24 16 00-0134	EA		Extra Scorpio Manual	12.46	
21 24 16 00-0135	EA		Compression Seal Adapter 3/8" Pipe.....	33.91	5.06
21 24 16 00-0136	EA		Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe	36.82	5.44
21 24 16 00-0137	EA		Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe	44.29	6.61
21 24 16 00-0138	EA		Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe	47.37	7.00
21 24 16 00-0139	EA		Quik Seal Adapter 3/8" NPT Female	36.82	5.44
21 24 16 00-0140	EA		Quik Seal Adapter 1/2" NPT Female	36.82	5.44
21 24 16 00-0141	EA		Quik Seal Adapter 3/4" NPT Female	62.99	9.47
21 24 16 00-0142	EA		Quik Seal Adapter 1" NPT Female	83.52	12.44
21 24 16 00-0143	EA		Quik Patch (Up To 1-1/8" Diameter)	36.82	5.44
21 24 16 00-0144	EA		1-1/4 Gallon Karbaloy Charge	81.95	

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0145	EA		2-1/2 Gallon Karbaloy Charge	140.88	
21 24 16 00-0146	EA		4 Gallon Karbaloy Charge.....	212.93	
21 24 16 00-0147	EA		6 Gallon Karbaloy Charge.....	311.58	
21 24 16 00-0148	EA		Inlet Flushing Adapter.....	61.09	9.07
21 24 16 00-0149	EA		1/2" Flushing Adapter (Outlet).....	61.09	9.07
21 24 16 00-0150	EA		1/8" Flushing Adapter (Outlet).....	61.09	9.07
21 24 16 00-0151	EA		1/4" Flushing Adapter (Outlet).....	61.09	9.07
21 24 16 00-0152	EA		3/8" Flushing Adapter (Outlet).....	61.09	9.07
21 24 16 00-0153	EA		Recharge Adapter (Old Style Cylinder Valve Assembly Only).....	84.77	
21 24 16 00-0154	EA		Instruction Label (In Case Of Fire) - MCB.....	6.83	
21 24 16 00-0155	EA		Caution Sign (Turn On Fan).....	8.14	
21 24 16 00-0156	EA		Inspection Label (Authorized installers only).....	5.77	
21 24 16 00-0157	EA		Label, Warning, A+ Control Box.....	4.20	
21 24 16 00-0158	EA		Wet Chemical System Kits, RG-1.25G Kit; #23315	1,072.15	159.89
21 24 16 00-0159	EA		Wet Chemical System Kits, RG-2.5G Kit; #23316	1,251.69	186.60
21 24 16 00-0160	EA		Wet Chemical System Kits, RG-4GS Kit; #23317	1,558.41	232.38
21 24 16 00-0161	EA		Wet Chemical System Kits, RG-4GT Kit; #23318	1,558.41	232.38
21 24 16 00-0162	EA		Wet Chemical System Kits, RG-6G Kit; #23319	1,959.84	292.16
21 24 16 00-0163	EA		Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320	928.80	138.49
21 24 16 00-0164	EA		Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321	872.69	130.06
21 24 16 00-0165	EA		Wet Chemical System Kits, A Plus Control Box Kit; #23322.....	705.63	105.16
21 24 16 00-0166	EA		Wet Chemical System Kits, Valve Rebuild Kit; #23210.....	1,221.75	182.20
21 24 16 00-0167	EA		Wet Chemical System Kits, BMCS-1 Package; #23208	1,119.52	166.89

21 30 Fire Pumps ⁽²¹⁾**21 31 Centrifugal Fire Pumps** ^(21 30)**21 31 13 Electric-Drive, Centrifugal Fire Pumps** ^(21 31)**21 31 13 00-0001 Electric-Drive Fire Pumps** ^(21 31 13)

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

21 31 13 00-0002	EA		20 HP Electric Fire Pump.....	49,937.94	2,524.46
			<i>For Duplex Pumping System, Add</i>	<i>47,413.48</i>	
21 31 13 00-0003	EA		30 HP Electric Fire Pump.....	58,095.17	2,840.02
			<i>For Duplex Pumping System, Add</i>	<i>55,465.53</i>	
21 31 13 00-0004	EA		40 HP Electric Fire Pump.....	78,868.86	3,155.58
			<i>For Duplex Pumping System, Add</i>	<i>75,947.03</i>	
21 31 13 00-0005	EA		50 HP Electric Fire Pump.....	97,235.43	3,513.92
			<i>For Duplex Pumping System, Add</i>	<i>93,721.52</i>	
21 31 13 00-0006	EA		75 HP Electric Fire Pump.....	108,505.95	3,833.37
			<i>For Duplex Pumping System, Add</i>	<i>104,672.58</i>	

21 31 16 Diesel-Drive, Centrifugal Fire Pumps ^(21 31)**21 31 16 00-0001 Diesel-Drive Fire Pumps** ^(21 31 16)

Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.

21 31 16 00-0002	EA		30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	73,098.93	2,875.03
21 31 16 00-0003	EA		40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	82,666.52	3,194.48
21 31 16 00-0004	EA		50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	86,925.63	3,513.92
21 31 16 00-0005	EA		75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	98,849.54	3,833.37
21 31 16 00-0006	EA		150 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	105,092.83	4,472.27
21 31 16 00-0007	EA		175 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	113,516.52	5,750.05
21 31 16 00-0008	EA		200 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	123,280.62	6,388.95
21 31 16 00-0009	EA		250 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	140,958.94	7,283.40
21 31 16 00-0010	EA		300 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	168,470.74	7,858.41
21 31 16 00-0011	EA		350 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	197,546.00	8,944.53
21 31 16 00-0012	EA		400 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	234,033.25	9,583.43
21 31 16 00-0013	EA		500 HP Diesel Driven Fire Pump , NFPA-20 Specific.....	263,297.85	10,222.32

END OF SECTION 21



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	41.78
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	43.91
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	48.35
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	51.78
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	56.45
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	72.33
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	93.86
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	110.32
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	126.83
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	64.78
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	68.76
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.14
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	83.69
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	92.57
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	119.86
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	148.73
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	171.59
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	195.40
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	90.96
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	95.34
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	105.41
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	115.64
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	130.67
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	161.03
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	193.90
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	234.74
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	287.14
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	295.65
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	316.41

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Removal And Replacement Of Fixture And/Or Trim ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s). See CSI section 22 42 00 00-0000 for faucet replacement installation and demolition prices.

22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	71.21
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory.....	21.82

22 Plumbing**22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	34.11	
22 01 40 81-0005	EA	Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line	48.19	
22 01 40 81-0006	EA	Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line.....	74.45	
22 01 40 81-0007	EA	Removal And Replacement Of Shower Head, Polished Chrome	45.02	
22 01 40 81-0008	EA	Removal And Replacement Of Shower Arm.....	41.16	
22 01 40 81-0009	EA	Removal And Replacement Of Shower Head.....	44.71	
22 01 40 81-0010	EA	Removal And Replacement Of Shower Knob.....	39.06	
22 01 40 81-0011	EA	Removal And Replacement Of Shower and Tub Control Trim.....	117.89	
		Note: Excludes balancing valve.		
22 01 40 81-0012	EA	Removal And Replacement Of Sink Basket Strainer.....	29.21	
22 01 40 81-0013	EA	Removal And Replacement Of 1-1/2" Sink Drain Without Stopper.....	16.86	
22 01 40 81-0014	EA	Removal And Replacement Of 4-1/2" Sink Drain Without Stopper.....	17.59	
22 01 40 81-0015	EA	Removal And Replacement Of 1-1/2" Sink Drain With Stopper.....	16.86	
22 01 40 81-0016	EA	Removal And Replacement Of 1" Sink Rubber Stopper.....	10.55	
22 01 40 81-0017	EA	Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8".....	31.19	
22 01 40 81-0018	EA	Removal And Replacement Of Sink Trap, Adjustable, 1-1/2".....	48.48	
22 01 40 81-0019	EA	Removal And Replacement Of Lavatory Pop-Up Rod.....	28.40	
22 01 40 81-0020	EA	Removal And Replacement Of Lavatory Pop-up Drain Stopper.....	35.26	
22 01 40 81-0021	EA	Removal And Replacement Of Faucet Handle.....	38.55	
22 01 40 81-0022	EA	Removal And Replacement Of Faucet O-Ring.....	31.28	
22 01 40 81-0023	EA	Removal And Replacement Of 1-1/2" Faucet Hole Cover.....	21.37	
22 01 40 81-0024	EA	Removal And Replacement Of Toilet Ballcock.....	44.57	
22 01 40 81-0025	EA	Removal And Replacement Of Toilet Bowl Ring, Flat Wax.....	8.57	
		Note: Excludes removal of toilet.		
22 01 40 81-0026	EA	Removal And Replacement Of Toilet Tank.....	171.44	
22 01 40 81-0027	EA	Removal And Replacement Of 10" Toilet Bowl.....	222.38	
22 01 40 81-0028	EA	Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl.....	236.65	
22 01 40 81-0029	EA	Removal And Replacement Of 12" Toilet Bowl.....	250.41	
22 01 40 81-0030	EA	Removal And Replacement Of 18", Elongated, Toilet Bowl.....	227.18	
22 01 40 81-0031	EA	Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers.....	28.76	
22 01 40 81-0032	EA	Removal And Replacement Of Toilet Flapper With Chain.....	20.08	
22 01 40 81-0033	EA	Removal And Replacement Of Toilet Flush Tank Lever.....	22.08	
22 01 40 81-0034	EA	Removal And Replacement Of Elongated Toilet Seat With Lid.....	107.30	
22 01 40 81-0035	EA	Removal And Replacement Of Elongated Toilet Seat Without Lid.....	91.55	
22 01 40 81-0036	EA	Removal And Replacement Of Handicap Toilet Seat, Complete With Rails.....	157.87	
22 01 40 81-0037	EA	Removal And Replacement Of Diverter Tub Spout.....	54.97	
22 01 40 81-0038	EA	Removal And Replacement Of Tub Spout.....	42.11	
22 01 40 81-0039	EA	Removal And Replacement Of 2" Tub Stopper.....	12.72	
22 01 40 81-0040	EA	Removal And Replacement Of Tub Waste/Overflow.....	85.41	
22 01 40 81-0041	EA	Removal And Replacement Of Tub Stem Bonnet Assembly.....	45.65	
22 01 40 81-0042	EA	Removal And Replacement Of Faucet Bonnet.....	49.54	
22 01 40 81-0043	EA	Removal And Replacement Of Faucet Diverter Stem.....	31.40	
22 01 40 81-0044	EA	Removal And Replacement Of Faucet Diverter Stem And Bonnet.....	41.26	
22 01 40 81-0045	EA	Removal And Replacement Of Faucet Spout.....	45.96	
22 01 40 81-0046	EA	Removal And Replacement Of Faucet Stem.....	34.22	
22 01 40 81-0047	EA	Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard.....	179.20	
22 01 40 81-0048	EA	Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve.....	218.59	
22 01 40 81-0049	EA	Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve.....	142.98	

22 05 Common Work Results for Plumbing ⁽²²⁾**22 05 13 Common Motor Requirements for Plumbing Equipment** ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 16 Expansion Fittings and Loops for Plumbing Piping ^(22 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

22 05 17 Sleeves and Sleeve Seals for Plumbing Piping ^(22 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

22 05 19 Meters and Gages for Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages, 33 19 00 00-0000 for water utility service metering.

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for valves.

22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve ^(22 05 23)**22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves** ^(22 05 23 00-0001)

22 05 23 00-0003	EA	3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	172.28	15.50
22 05 23 00-0004	EA	1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	196.39	17.61

22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves ^(22 05 23 00-0001)

22 05 23 00-0006	EA	1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	231.44	18.74
22 05 23 00-0007	EA	1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	307.01	21.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves <small>(22 05 23 00-0001)</small>		
22 05 23 00-0009 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	208.96	15.50
22 05 23 00-0010 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	221.86	17.61
22 05 23 00-0011 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	251.81	18.74
22 05 23 00-0012 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	337.57	21.69
22 05 23 00-0013 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	739.32	25.63
22 05 23 00-0014 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	885.48	34.50
22 05 23 00-0015 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,141.89	40.20
22 05 23 00-0016 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,322.16	45.38
22 05 23 00-0017 60 PSI Flanged Earthquake Gas Shutoff Valves <small>(22 05 23 00-0001)</small>		
22 05 23 00-0018 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,049.78	187.75
22 05 23 00-0019 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,289.61	220.45
22 05 23 00-0020 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,838.51	369.57
22 05 23 00-0021 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,914.80	415.01
22 05 23 00-0022 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,688.46	530.29
22 05 23 00-0023 Emergency Shut-Off Valve With Fusible Link <small>(22 05 23)</small>		
22 05 23 00-0024 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) <small>(22 05 23 00-0023)</small>		
<small>Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.</small>		
22 05 23 00-0025 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	76.30	22.68
<small>For Work In Restricted Working Space, Add</small>		
	12.30	
22 05 23 00-0026 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	78.51	23.94
<small>For Work In Restricted Working Space, Add</small>		
	12.97	
22 05 23 00-0027 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	118.07	22.68
<small>For Work In Restricted Working Space, Add</small>		
	13.63	
22 05 23 00-0028 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	222.49	30.56
<small>For Work In Restricted Working Space, Add</small>		
	18.37	
22 05 23 00-0029 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series).....	531.33	37.04
<small>For Work In Restricted Working Space, Add</small>		
	22.24	
22 05 23 00-0030 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(22 05 23 00-0023)</small>		
<small>Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.</small>		
22 05 23 00-0031 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	424.14	21.69
22 05 23 00-0032 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	461.65	25.63
22 05 23 00-0033 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	769.67	40.20
22 05 23 00-0034 Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(22 05 23 00-0023)</small>		
<small>Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.</small>		
22 05 23 00-0035 EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	651.58	187.75
22 05 23 00-0036 EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	1,022.94	220.45
22 05 23 00-0037 EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	2,279.43	369.57
22 05 29 Hangers and Supports for Plumbing Piping and Equipment <small>(22 05)</small>		
<small>See CSI section 23 05 29 00-0000 for hangers and supports.</small>		
22 05 33 Heat Tracing for Plumbing Piping <small>(22 05)</small>		
<small>See CSI section 23 83 13 00-0000 for heat tracing cables.</small>		
22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment <small>(22 05)</small>		
22 05 48 13 Vibration Controls for Plumbing Piping and Equipment <small>(22 05 48)</small>		
<small>See CSI section 23 05 48 13-0000 for vibration and seismic control.</small>		
22 05 53 Identification for Plumbing Piping and Equipment <small>(22 05)</small>		
<small>See CSI section 23 05 53 00-0000 for identification.</small>		
22 05 76 Facility Drainage Piping Cleanouts <small>(22 05)</small>		
22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover <small>(22 05 76)</small>		
<small>Note: For floor installation.</small>		
22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover <small>(22 05 76 00-0001)</small>		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	660.67	74.93
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	719.85	93.94
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA		4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	897.17	113.52
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006	EA		5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,271.10	127.04
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007	EA		6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,556.01	137.60
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008			Cast Iron Heavy Duty Cleanout With Plug And Round Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0009	EA		2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	756.17	74.93
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010	EA		3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	816.77	93.80
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011	EA		4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	994.19	113.52
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012	EA		5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,368.19	127.04
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013	EA		6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,652.99	137.60
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014			Wall Cover For Cleanout <small>(22 05 76)</small>		
			Note: Cover and screw only.		
22 05 76 00-0015			Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
			Note: Cover and screw only.		
22 05 76 00-0016	EA		4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	104.54	23.52
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017	EA		5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	113.94	28.17
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	143.72 9.00 19.50	31.69
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	235.66 9.00 19.50	35.21
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed..... <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	348.81 9.00 19.50	38.73
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	498.93 19.50 22.50	23.52
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	714.73 19.50 22.50	24.65
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	763.58 19.50 22.50	26.06
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	854.32 19.50 22.50	29.58
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	507.75 19.50 22.50	23.52
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	727.72 19.50 22.50	24.65
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	777.47 19.50 22.50	26.06
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	869.84 19.50 22.50	29.58
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	492.82 19.50 22.50	23.52
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	678.65 19.50 22.50	24.65
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	958.81 19.50 22.50	26.06
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,159.98 19.50 22.50	29.58
22 05 76 00-0036 Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	488.95 18.00 45.00	74.93
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	562.18 18.00 45.00	93.80
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	730.23 18.00 45.00	113.52
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,687.84 18.00 45.00	137.60
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	828.08 18.00 45.00	74.93

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	901.31	93.80
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	1,046.85	113.52
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	2,145.89	137.60
For Vandal Proof Screws, Add	18.00	
For Galvanized Cast Iron Parts, Add	45.00	
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug.....	400.65	61.26
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug.....	447.29	66.90
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug.....	595.64	88.03
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug.....	883.66	104.23
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug.....	1,484.36	123.23
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	82.03	17.61
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug.....	97.58	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug.....	163.30	21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug.....	183.09	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug.....	207.11	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug.....	288.45	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug.....	420.69	35.21
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug.....	703.50	38.73
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug.....	1,007.65	42.26
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head.....	38.38	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head.....	38.93	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head.....	42.38	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head.....	47.81	21.12
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head.....	56.34	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head.....	65.88	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head.....	70.63	29.67
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head.....	75.73	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head.....	96.15	35.21
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	37.95	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head.....	38.55	17.60
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head.....	43.57	19.16
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head.....	47.99	21.13
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head.....	55.83	24.65
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head.....	65.07	28.17
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head.....	75.28	31.69
For Plug Tapped For Center Screw, Add	9.50	
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head.....	88.98	35.21
For Plug Tapped For Center Screw, Add	9.50	

22 07 Plumbing Insulation (22)**22 07 16 Plumbing Equipment Insulation (22 07)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 16 00-0001 Lavatory Insulation <small>(22 07 16)</small>		
22 07 16 00-0002 EA Neoprene Insulation Kit For Under Lavatories.....	292.30	29.55
 22 07 19 Plumbing Piping Insulation <small>(22 07)</small>		
22 07 19 00-0001 Fiberglass Pipe Insulation <small>(22 07 19)</small>		
<small>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</small>		
22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.44	2.89
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.17</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.35</i>	
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.62	2.89
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.19</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.35</i>	
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.22	3.02
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.20</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.49</i>	
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.57	3.15
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.22</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.53</i>	
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.86	3.15
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.24</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.58</i>	
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.48	3.28
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.25</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.72</i>	
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.01	3.41
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.29</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.77</i>	
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.64	3.54
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.33</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.86</i>	
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.29	3.81
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.42</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.10</i>	
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.84	4.47
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.51</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.61</i>	
 22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation <small>(22 07 19 00-0001)</small>		
22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.72	3.94
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.20</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.24</i>	
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.00	3.94
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.23</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.24</i>	
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.21	3.94
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.24</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.29</i>	
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.65	4.07
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.27</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.33</i>	
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.01	4.07
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.29</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.38</i>	
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	14.57	4.21
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.32</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.47</i>	
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.34	4.47
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.35</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.61</i>	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.09	4.60
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.39</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.71</i>	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.10	4.86
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.51</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.99</i>	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.88	5.64
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.62</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>4.50</i>	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.61	6.31
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.88</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>5.16</i>	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.14	7.49
<i>For Single Layer Of Felt Finish, Add</i>	<i>1.03</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.10</i>	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.60	8.53
For Single Layer Of Felt Finish, Add	1.17	
For Work In Restricted Working Space, Add	7.04	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.19	9.33
For Single Layer Of Felt Finish, Add	1.36	
For Work In Restricted Working Space, Add	7.28	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.17	4.05
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.34	4.05
For Single Layer Of Felt Finish, Add	0.43	
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.22	4.30
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.57	
22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.77	4.39
For Single Layer Of Felt Finish, Add	0.49	
For Work In Restricted Working Space, Add	3.64	
22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.24	4.47
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	3.71	
22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.37	4.70
For Single Layer Of Felt Finish, Add	0.56	
For Work In Restricted Working Space, Add	3.91	
22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.12	4.78
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	3.98	
22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.75	4.95
For Single Layer Of Felt Finish, Add	0.63	
For Work In Restricted Working Space, Add	4.11	
22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.75	5.36
For Single Layer Of Felt Finish, Add	0.73	
For Work In Restricted Working Space, Add	4.45	
22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.20	6.25
For Single Layer Of Felt Finish, Add	0.83	
For Work In Restricted Working Space, Add	5.19	
22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.16	6.59
For Single Layer Of Felt Finish, Add	1.04	
For Work In Restricted Working Space, Add	5.48	
22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.34	7.89
For Single Layer Of Felt Finish, Add	1.31	
For Work In Restricted Working Space, Add	6.56	
22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	39.04	9.20
For Single Layer Of Felt Finish, Add	1.43	
For Work In Restricted Working Space, Add	7.64	
22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	43.63	10.07
For Single Layer Of Felt Finish, Add	1.65	
For Work In Restricted Working Space, Add	8.37	
22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.51	4.47
For Single Layer Of Felt Finish, Add	0.65	
For Work In Restricted Working Space, Add	3.71	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.71	4.47
For Single Layer Of Felt Finish, Add	0.67	
For Work In Restricted Working Space, Add	3.71	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.32	4.60
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	3.75	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.86	4.60
For Single Layer Of Felt Finish, Add	0.75	
For Work In Restricted Working Space, Add	3.80	
22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.42	4.73
For Single Layer Of Felt Finish, Add	0.80	
For Work In Restricted Working Space, Add	3.85	
22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.19	4.86
For Single Layer Of Felt Finish, Add	0.83	
For Work In Restricted Working Space, Add	3.99	
22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.24	4.99
For Single Layer Of Felt Finish, Add	0.89	
For Work In Restricted Working Space, Add	4.13	
22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.38	5.25
For Single Layer Of Felt Finish, Add	0.96	
For Work In Restricted Working Space, Add	4.27	
22 07 19 00-0052 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.49	5.51
For Single Layer Of Felt Finish, Add	1.10	
For Work In Restricted Working Space, Add	4.50	
22 07 19 00-0053 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.18	6.47
For Single Layer Of Felt Finish, Add	1.28	
For Work In Restricted Working Space, Add	5.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.06	6.84
<i>For Single Layer Of Felt Finish, Add</i>	1.58	
<i>For Work In Restricted Working Space, Add</i>	5.70	
22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.76	8.18
<i>For Single Layer Of Felt Finish, Add</i>	1.89	
<i>For Work In Restricted Working Space, Add</i>	6.83	
22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.01	9.81
<i>For Single Layer Of Felt Finish, Add</i>	2.08	
<i>For Work In Restricted Working Space, Add</i>	8.17	
22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.37	10.70
<i>For Single Layer Of Felt Finish, Add</i>	2.35	
<i>For Work In Restricted Working Space, Add</i>	11.40	
22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	63.47	12.54
<i>For Single Layer Of Felt Finish, Add</i>	2.67	
<i>For Work In Restricted Working Space, Add</i>	11.40	
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.16	13.17
<i>For Single Layer Of Felt Finish, Add</i>	3.18	
<i>For Work In Restricted Working Space, Add</i>	11.97	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.57	15.05
<i>For Single Layer Of Felt Finish, Add</i>	3.57	
<i>For Work In Restricted Working Space, Add</i>	13.68	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	92.75	18.19
<i>For Single Layer Of Felt Finish, Add</i>	3.95	
<i>For Work In Restricted Working Space, Add</i>	16.53	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.81	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.11	5.25
<i>For Single Layer Of Felt Finish, Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	4.28	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.97	5.25
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.34	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.61	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	4.37	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.28	5.38
<i>For Single Layer Of Felt Finish, Add</i>	1.11	
<i>For Work In Restricted Working Space, Add</i>	4.41	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.33	5.64
<i>For Single Layer Of Felt Finish, Add</i>	1.16	
<i>For Work In Restricted Working Space, Add</i>	4.59	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.77	5.77
<i>For Single Layer Of Felt Finish, Add</i>	1.25	
<i>For Work In Restricted Working Space, Add</i>	4.75	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.08	6.04
<i>For Single Layer Of Felt Finish, Add</i>	1.33	
<i>For Work In Restricted Working Space, Add</i>	4.91	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.05	6.31
<i>For Single Layer Of Felt Finish, Add</i>	1.55	
<i>For Work In Restricted Working Space, Add</i>	5.18	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.73	6.70
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	5.89	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.48	8.01
<i>For Single Layer Of Felt Finish, Add</i>	2.79	
<i>For Work In Restricted Working Space, Add</i>	6.56	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	57.79	9.20
<i>For Single Layer Of Felt Finish, Add</i>	3.42	
<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.03	11.43
<i>For Single Layer Of Felt Finish, Add</i>	3.64	
<i>For Work In Restricted Working Space, Add</i>	9.41	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.51	12.61
<i>For Single Layer Of Felt Finish, Add</i>	4.23	
<i>For Work In Restricted Working Space, Add</i>	10.28	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.12	16.02
<i>For Single Layer Of Felt Finish, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	13.13	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	94.64	16.81
<i>For Single Layer Of Felt Finish, Add</i>	5.11	
<i>For Work In Restricted Working Space, Add</i>	13.79	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.45	19.18
<i>For Single Layer Of Felt Finish, Add</i>	5.77	
<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.60	23.16
<i>For Single Layer Of Felt Finish, Add</i>	6.63	
<i>For Work In Restricted Working Space, Add</i>	19.04	

22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.16	5.81
For Single Layer Of Felt Finish, Add	0.99	
For Work In Restricted Working Space, Add	4.73	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.48	5.81
For Single Layer Of Felt Finish, Add	1.02	
For Work In Restricted Working Space, Add	4.73	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.36	5.86
For Single Layer Of Felt Finish, Add	1.10	
For Work In Restricted Working Space, Add	4.78	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.05	5.90
For Single Layer Of Felt Finish, Add	1.16	
For Work In Restricted Working Space, Add	4.81	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.83	5.97
For Single Layer Of Felt Finish, Add	1.22	
For Work In Restricted Working Space, Add	4.86	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.91	6.19
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	5.04	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.48	6.40
For Single Layer Of Felt Finish, Add	1.38	
For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.94	6.63
For Single Layer Of Felt Finish, Add	1.46	
For Work In Restricted Working Space, Add	5.40	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.23	7.00
For Single Layer Of Felt Finish, Add	1.70	
For Work In Restricted Working Space, Add	5.70	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	40.35	7.95
For Single Layer Of Felt Finish, Add	1.97	
For Work In Restricted Working Space, Add	6.48	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	53.25	8.85
For Single Layer Of Felt Finish, Add	3.06	
For Work In Restricted Working Space, Add	7.22	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	63.48	10.21
For Single Layer Of Felt Finish, Add	3.75	
For Work In Restricted Working Space, Add	8.33	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	72.55	12.70
For Single Layer Of Felt Finish, Add	3.99	
For Work In Restricted Working Space, Add	10.35	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	81.86	13.86
For Single Layer Of Felt Finish, Add	4.64	
For Work In Restricted Working Space, Add	11.30	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	96.83	17.72
For Single Layer Of Felt Finish, Add	5.11	
For Work In Restricted Working Space, Add	14.44	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	103.98	18.61
For Single Layer Of Felt Finish, Add	5.61	
For Work In Restricted Working Space, Add	15.17	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	118.09	21.27
For Single Layer Of Felt Finish, Add	6.33	
For Work In Restricted Working Space, Add	17.34	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	139.11	25.68
For Single Layer Of Felt Finish, Add	7.28	
For Work In Restricted Working Space, Add	20.95	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.16	6.31
For Single Layer Of Felt Finish, Add	1.04	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.53	6.31
For Single Layer Of Felt Finish, Add	1.08	
For Work In Restricted Working Space, Add	5.18	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.79	6.31
For Single Layer Of Felt Finish, Add	1.20	
For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0104 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.52	6.44
For Single Layer Of Felt Finish, Add	1.26	
For Work In Restricted Working Space, Add	5.25	
22 07 19 00-0105 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.42	6.44
For Single Layer Of Felt Finish, Add	1.33	
For Work In Restricted Working Space, Add	5.32	
22 07 19 00-0106 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.53	6.70
For Single Layer Of Felt Finish, Add	1.39	
For Work In Restricted Working Space, Add	5.49	
22 07 19 00-0107 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.27	6.96
For Single Layer Of Felt Finish, Add	1.50	
For Work In Restricted Working Space, Add	5.69	
22 07 19 00-0108 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	34.77	7.22
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	5.89	
22 07 19 00-0109 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	38.50	7.62
For Single Layer Of Felt Finish, Add	1.86	
For Work In Restricted Working Space, Add	6.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0110	LF		6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.05	8.66
			<i>For Single Layer Of Felt Finish, Add</i>	2.15	
			<i>For Work In Restricted Working Space, Add</i>	7.07	
22 07 19 00-0111	LF		8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.14	9.59
			<i>For Single Layer Of Felt Finish, Add</i>	3.35	
			<i>For Work In Restricted Working Space, Add</i>	7.87	
22 07 19 00-0112	LF		10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	69.34	11.03
			<i>For Single Layer Of Felt Finish, Add</i>	4.10	
			<i>For Work In Restricted Working Space, Add</i>	9.08	
22 07 19 00-0113	LF		12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.23	13.78
			<i>For Single Layer Of Felt Finish, Add</i>	4.37	
			<i>For Work In Restricted Working Space, Add</i>	11.30	
22 07 19 00-0114	LF		14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.43	15.10
			<i>For Single Layer Of Felt Finish, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	12.33	
22 07 19 00-0115	LF		16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.78	19.18
			<i>For Single Layer Of Felt Finish, Add</i>	5.59	
			<i>For Work In Restricted Working Space, Add</i>	15.76	
22 07 19 00-0116	LF		18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	113.56	20.22
			<i>For Single Layer Of Felt Finish, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 07 19 00-0117	LF		20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	129.00	23.11
			<i>For Single Layer Of Felt Finish, Add</i>	6.92	
			<i>For Work In Restricted Working Space, Add</i>	18.92	
22 07 19 00-0118	LF		24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	151.93	27.84
			<i>For Single Layer Of Felt Finish, Add</i>	7.96	
			<i>For Work In Restricted Working Space, Add</i>	22.85	
22 07 19 00-0119			4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0120	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.74	7.09
			<i>For Single Layer Of Felt Finish, Add</i>	1.21	
			<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0121	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.15	7.09
			<i>For Single Layer Of Felt Finish, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	5.76	
22 07 19 00-0122	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.33	7.09
			<i>For Single Layer Of Felt Finish, Add</i>	1.35	
			<i>For Work In Restricted Working Space, Add</i>	5.86	
22 07 19 00-0123	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.29	7.22
			<i>For Single Layer Of Felt Finish, Add</i>	1.42	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 07 19 00-0124	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.64	7.49
			<i>For Single Layer Of Felt Finish, Add</i>	1.50	
			<i>For Work In Restricted Working Space, Add</i>	6.11	
22 07 19 00-0125	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.90	7.75
			<i>For Single Layer Of Felt Finish, Add</i>	1.56	
			<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0126	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.42	7.75
			<i>For Single Layer Of Felt Finish, Add</i>	1.69	
			<i>For Work In Restricted Working Space, Add</i>	6.40	
22 07 19 00-0127	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.26	8.14
			<i>For Single Layer Of Felt Finish, Add</i>	1.80	
			<i>For Work In Restricted Working Space, Add</i>	6.63	
22 07 19 00-0128	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.27	8.53
			<i>For Single Layer Of Felt Finish, Add</i>	2.09	
			<i>For Work In Restricted Working Space, Add</i>	7.00	
22 07 19 00-0129	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.55	9.72
			<i>For Single Layer Of Felt Finish, Add</i>	2.42	
			<i>For Work In Restricted Working Space, Add</i>	7.94	
22 07 19 00-0130	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.41	10.50
			<i>For Single Layer Of Felt Finish, Add</i>	3.77	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
22 07 19 00-0131	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.03	12.48
			<i>For Single Layer Of Felt Finish, Add</i>	4.61	
			<i>For Work In Restricted Working Space, Add</i>	10.23	
22 07 19 00-0132	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.15	15.49
			<i>For Single Layer Of Felt Finish, Add</i>	4.91	
			<i>For Work In Restricted Working Space, Add</i>	12.71	
22 07 19 00-0133	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	100.63	16.94
			<i>For Single Layer Of Felt Finish, Add</i>	5.71	
			<i>For Work In Restricted Working Space, Add</i>	13.88	
22 07 19 00-0134	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.06	21.67
			<i>For Single Layer Of Felt Finish, Add</i>	6.29	
			<i>For Work In Restricted Working Space, Add</i>	17.75	
22 07 19 00-0135	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	127.69	22.72
			<i>For Single Layer Of Felt Finish, Add</i>	6.90	
			<i>For Work In Restricted Working Space, Add</i>	18.59	
22 07 19 00-0136	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	143.40	26.00
			<i>For Single Layer Of Felt Finish, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	21.28	
22 07 19 00-0137	LF		24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	170.95	31.39
			<i>For Single Layer Of Felt Finish, Add</i>	8.95	
			<i>For Work In Restricted Working Space, Add</i>	25.71	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0138	LF		26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	195.60	37.03
			<i>For Single Layer Of Felt Finish, Add</i>	9.93	
			<i>For Work In Restricted Working Space, Add</i>	30.30	
22 07 19 00-0139	LF		28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	221.14	43.59
			<i>For Single Layer Of Felt Finish, Add</i>	10.73	
			<i>For Work In Restricted Working Space, Add</i>	35.69	
22 07 19 00-0140	LF		30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	250.25	51.48
			<i>For Single Layer Of Felt Finish, Add</i>	11.48	
			<i>For Work In Restricted Working Space, Add</i>	42.27	
22 07 19 00-0141	LF		36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	303.38	65.44
			<i>For Single Layer Of Felt Finish, Add</i>	13.04	
			<i>For Work In Restricted Working Space, Add</i>	53.75	
22 07 19 00-0142	LF		42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	356.52	79.71
			<i>For Single Layer Of Felt Finish, Add</i>	14.61	
			<i>For Work In Restricted Working Space, Add</i>	65.22	
22 07 19 00-0143	LF		44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	384.11	87.59
			<i>For Single Layer Of Felt Finish, Add</i>	15.17	
			<i>For Work In Restricted Working Space, Add</i>	71.89	
22 07 19 00-0144	LF		46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	408.79	94.29
			<i>For Single Layer Of Felt Finish, Add</i>	15.78	
			<i>For Work In Restricted Working Space, Add</i>	77.55	
22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)					
22 07 19 00-0146	LF		1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.75	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.38	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0147	LF		3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.23	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.43	
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 07 19 00-0148	LF		1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.57	7.63
			<i>For Single Layer Of Felt Finish, Add</i>	1.53	
			<i>For Work In Restricted Working Space, Add</i>	6.30	
22 07 19 00-0149	LF		1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.64	7.77
			<i>For Single Layer Of Felt Finish, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	6.37	
22 07 19 00-0150	LF		1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.13	8.05
			<i>For Single Layer Of Felt Finish, Add</i>	1.71	
			<i>For Work In Restricted Working Space, Add</i>	6.57	
22 07 19 00-0151	LF		2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.53	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.78	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 07 19 00-0152	LF		2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.24	8.33
			<i>For Single Layer Of Felt Finish, Add</i>	1.92	
			<i>For Work In Restricted Working Space, Add</i>	6.88	
22 07 19 00-0153	LF		3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.27	8.75
			<i>For Single Layer Of Felt Finish, Add</i>	2.05	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0154	LF		4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.77	9.18
			<i>For Single Layer Of Felt Finish, Add</i>	2.38	
			<i>For Work In Restricted Working Space, Add</i>	7.52	
22 07 19 00-0155	LF		6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.71	10.44
			<i>For Single Layer Of Felt Finish, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	8.54	
22 07 19 00-0156	LF		8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.57	11.29
			<i>For Single Layer Of Felt Finish, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	9.52	
22 07 19 00-0157	LF		10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	86.63	13.41
			<i>For Single Layer Of Felt Finish, Add</i>	5.25	
			<i>For Work In Restricted Working Space, Add</i>	11.00	
22 07 19 00-0158	LF		12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	98.77	16.66
			<i>For Single Layer Of Felt Finish, Add</i>	5.59	
			<i>For Work In Restricted Working Space, Add</i>	13.66	
22 07 19 00-0159	LF		14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	111.59	18.21
			<i>For Single Layer Of Felt Finish, Add</i>	6.50	
			<i>For Work In Restricted Working Space, Add</i>	14.92	
22 07 19 00-0160	LF		16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.74	23.29
			<i>For Single Layer Of Felt Finish, Add</i>	7.16	
			<i>For Work In Restricted Working Space, Add</i>	19.07	
22 07 19 00-0161	LF		18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	141.40	24.42
			<i>For Single Layer Of Felt Finish, Add</i>	7.85	
			<i>For Work In Restricted Working Space, Add</i>	19.99	
22 07 19 00-0162	LF		20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	158.69	27.95
			<i>For Single Layer Of Felt Finish, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	22.88	
22 07 19 00-0163	LF		24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	189.12	33.73
			<i>For Single Layer Of Felt Finish, Add</i>	10.18	
			<i>For Work In Restricted Working Space, Add</i>	27.64	
22 07 19 00-0164	LF		26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	216.20	39.81
			<i>For Single Layer Of Felt Finish, Add</i>	11.30	
			<i>For Work In Restricted Working Space, Add</i>	32.58	
22 07 19 00-0165	LF		28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	244.12	46.86
			<i>For Single Layer Of Felt Finish, Add</i>	12.21	
			<i>For Work In Restricted Working Space, Add</i>	38.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	275.87	55.33
For Single Layer Of Felt Finish, Add	13.06	
For Work In Restricted Working Space, Add	45.44	
22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	333.93	70.35
For Single Layer Of Felt Finish, Add	14.84	
For Work In Restricted Working Space, Add	57.78	
22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	391.99	85.69
For Single Layer Of Felt Finish, Add	16.62	
For Work In Restricted Working Space, Add	70.12	
22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	421.97	94.16
For Single Layer Of Felt Finish, Add	17.26	
For Work In Restricted Working Space, Add	77.28	
22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	448.86	101.35
For Single Layer Of Felt Finish, Add	17.95	
For Work In Restricted Working Space, Add	83.36	
22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.46	8.38
For Single Layer Of Felt Finish, Add	1.55	
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.98	8.38
For Single Layer Of Felt Finish, Add	1.61	
For Work In Restricted Working Space, Add	6.80	
22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.47	8.38
For Single Layer Of Felt Finish, Add	1.72	
For Work In Restricted Working Space, Add	6.92	
22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.69	8.54
For Single Layer Of Felt Finish, Add	1.82	
For Work In Restricted Working Space, Add	7.01	
22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.36	8.85
For Single Layer Of Felt Finish, Add	1.92	
For Work In Restricted Working Space, Add	7.23	
22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.88	9.17
For Single Layer Of Felt Finish, Add	2.00	
For Work In Restricted Working Space, Add	7.45	
22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.81	9.17
For Single Layer Of Felt Finish, Add	2.16	
For Work In Restricted Working Space, Add	7.56	
22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.09	9.63
For Single Layer Of Felt Finish, Add	2.31	
For Work In Restricted Working Space, Add	7.84	
22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.11	10.09
For Single Layer Of Felt Finish, Add	2.68	
For Work In Restricted Working Space, Add	8.28	
22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.85	11.49
For Single Layer Of Felt Finish, Add	3.10	
For Work In Restricted Working Space, Add	9.39	
22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.83	12.42
For Single Layer Of Felt Finish, Add	4.82	
For Work In Restricted Working Space, Add	10.47	
22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.54	14.75
For Single Layer Of Felt Finish, Add	5.90	
For Work In Restricted Working Space, Add	12.10	
22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	109.99	18.32
For Single Layer Of Felt Finish, Add	6.29	
For Work In Restricted Working Space, Add	15.02	
22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	124.30	20.03
For Single Layer Of Felt Finish, Add	7.31	
For Work In Restricted Working Space, Add	16.41	
22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	146.61	25.62
For Single Layer Of Felt Finish, Add	8.05	
For Work In Restricted Working Space, Add	20.98	
22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.40	26.86
For Single Layer Of Felt Finish, Add	8.83	
For Work In Restricted Working Space, Add	21.99	
22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	176.62	30.75
For Single Layer Of Felt Finish, Add	9.74	
For Work In Restricted Working Space, Add	25.17	
22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	210.45	37.11
For Single Layer Of Felt Finish, Add	11.46	
For Work In Restricted Working Space, Add	30.41	
22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	240.50	43.79
For Single Layer Of Felt Finish, Add	12.71	
For Work In Restricted Working Space, Add	35.83	
22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	271.44	51.55
For Single Layer Of Felt Finish, Add	13.73	
For Work In Restricted Working Space, Add	42.20	
22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.58	60.87
For Single Layer Of Felt Finish, Add	14.70	
For Work In Restricted Working Space, Add	49.99	
22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	370.85	77.40
For Single Layer Of Felt Finish, Add	16.70	
For Work In Restricted Working Space, Add	63.56	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	435.14 18.70 77.13	94.26
22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	468.27 19.42 85.01	103.57
22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	498.02 20.20 91.70	111.49
22 07 19 00-0197 Foamglas Pipe Insulation, Rigid, Closed Cell (22 07 19) Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0198 1" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0199 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.83 5.82	6.41
22 07 19 00-0200 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.44 5.82	6.41
22 07 19 00-0201 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.35 5.91	6.50
22 07 19 00-0202 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.83 5.99	6.59
22 07 19 00-0203 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.53 6.08	6.68
22 07 19 00-0204 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.88 6.25	6.87
22 07 19 00-0205 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.61 6.50	7.15
22 07 19 00-0206 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.37 6.67	7.34
22 07 19 00-0207 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.32 7.18	7.89
22 07 19 00-0208 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.21 8.10	8.90
22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0210 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.10 6.25	7.10
22 07 19 00-0211 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.49 6.25	7.10
22 07 19 00-0212 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.16 6.33	7.19
22 07 19 00-0213 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.71 6.41	7.28
22 07 19 00-0214 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.24 6.50	7.38
22 07 19 00-0215 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.15 6.71	7.63
22 07 19 00-0216 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.27 6.97	7.92
22 07 19 00-0217 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.03 7.18	8.16
22 07 19 00-0218 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.11 7.64	8.68
22 07 19 00-0219 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.65 8.65	9.84
22 07 19 00-0220 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.02 9.65	10.97
22 07 19 00-0221 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	61.23 11.12	12.65
22 07 19 00-0222 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.37 13.82	15.71
22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.14 15.02	16.53
22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	89.61 16.79	18.46
22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.51 19.85	21.84
22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	114.29 21.98	24.18
22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	139.15 24.35	26.79
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.81 6.67	7.34
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.42 6.67	7.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.28 6.75	7.41
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.51 6.84	7.53
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.75 6.92	7.62
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.85 7.18	7.89
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.44 7.43	8.18
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.76 7.68	8.44
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.03 8.10	8.91
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.90 9.20	10.12
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.69 10.26	11.29
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.25 11.84	13.01
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	84.59 14.71	16.18
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	90.76 16.05	17.67
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	109.05 20.52	22.58
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	117.95 21.54	23.70
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	131.39 24.63	27.09
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	163.51 29.75	32.73
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.79 7.23	7.96
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.80 7.23	7.95
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.23 7.35	8.08
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.44 7.40	8.14
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.67 7.46	8.21
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.12 7.77	8.53
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.43 8.03	8.83
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.62 8.31	9.14
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.50 8.77	9.64
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.81 9.97	10.97
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.65 11.11	12.22
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	76.20 12.81	14.09
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	94.85 15.92	17.52
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	99.77 17.39	19.12
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	119.56 22.22	24.44
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	129.09 23.33	25.65
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	148.24 26.66	29.33
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	184.34 32.21	35.44
22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	38.45 7.69	8.46
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.06 7.69	8.46
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.11 7.82	8.60
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.90 7.87	8.65
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.74 7.94	8.73

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	44.56 8.26	9.08
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.23 8.54	9.41
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.71 8.84	9.73
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.30 9.32	10.25
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.37 10.60	11.66
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.67 11.82	13.00
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	87.36 13.63	15.00
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.70 16.94	18.63
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	110.35 18.49	20.34
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	133.45 23.63	26.00
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	142.33 24.82	27.30
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	166.01 28.37	31.20
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	202.50 34.27	37.70
22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.37 9.32	10.25
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.14 9.32	10.25
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.13 9.39	10.32
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	49.10 9.45	10.38
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.27 9.56	10.51
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.63 9.89	10.89
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.04 10.24	11.27
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.13 10.60	11.66
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.38 11.21	12.33
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	76.23 12.72	13.99
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.35 14.17	15.58
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.65 16.35	17.99
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	122.37 20.33	22.36
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	128.71 22.19	24.41
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.19 28.37	31.20
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	170.18 29.78	32.77
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	193.91 34.06	37.47
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	237.38 41.13	45.24
22 07 19 00-0304 4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.58 11.46	12.61
22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.58 11.46	12.61
22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.23 11.66	12.82
22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	60.69 11.79	12.98
22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.91 12.16	13.38
22 07 19 00-0310 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.33 12.54	13.78
22 07 19 00-0311 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.13 12.74	14.01
22 07 19 00-0312 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	74.49 13.20	14.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0313 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation.....	81.73	16.19
For Work In Restricted Working Space, Add	14.72	
22 07 19 00-0314 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation.....	93.24	17.38
For Work In Restricted Working Space, Add	15.81	
22 07 19 00-0315 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation.....	104.51	18.85
For Work In Restricted Working Space, Add	17.14	
22 07 19 00-0316 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation.....	120.48	22.41
For Work In Restricted Working Space, Add	20.37	
22 07 19 00-0317 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation.....	142.35	27.83
For Work In Restricted Working Space, Add	25.29	
22 07 19 00-0318 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation.....	154.93	30.38
For Work In Restricted Working Space, Add	27.63	
22 07 19 00-0319 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation.....	186.57	38.85
For Work In Restricted Working Space, Add	35.33	
22 07 19 00-0320 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation.....	205.15	40.73
For Work In Restricted Working Space, Add	37.02	
22 07 19 00-0321 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation.....	230.89	46.60
For Work In Restricted Working Space, Add	42.37	
22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation.....	290.15	56.31
For Work In Restricted Working Space, Add	51.19	
22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19)		
Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.21	3.92
For Work In Restricted Working Space, Add	2.36	
22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.22	3.92
For Work In Restricted Working Space, Add	2.36	
22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.53	4.07
For Work In Restricted Working Space, Add	2.44	
22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	8.86	4.21
For Work In Restricted Working Space, Add	2.53	
22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.12	4.29
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.42	4.35
For Work In Restricted Working Space, Add	2.61	
22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.54	4.35
For Work In Restricted Working Space, Add	2.62	
22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.84	4.35
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.48	4.48
For Work In Restricted Working Space, Add	2.71	
22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.78	4.56
For Work In Restricted Working Space, Add	2.75	
22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.04	4.29
For Work In Restricted Working Space, Add	2.57	
22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.13	4.29
For Work In Restricted Working Space, Add	2.58	
22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.26	4.35
For Work In Restricted Working Space, Add	2.61	
22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.41	4.38
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.79	4.48
For Work In Restricted Working Space, Add	2.69	
22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.11	4.56
For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.47	4.62
For Work In Restricted Working Space, Add	2.78	
22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.89	4.69
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.62	4.83
For Work In Restricted Working Space, Add	2.90	
22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.35	4.90
For Work In Restricted Working Space, Add	2.94	
22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.02	4.96
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.45	5.03
For Work In Restricted Working Space, Add	3.02	
22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.98	4.62
For Work In Restricted Working Space, Add	2.78	
22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.11	4.69
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.64	4.83
For Work In Restricted Working Space, Add	2.90	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0352	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.89 2.94	4.90
22 07 19 00-0353	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.52 3.02	5.03
22 07 19 00-0354	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.12 3.06	5.11
22 07 19 00-0355	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.40 3.08	5.13
22 07 19 00-0356	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.44 3.11	5.17
22 07 19 00-0357	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.93 3.19	5.30
22 07 19 00-0358	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.06 3.23	5.38
22 07 19 00-0359	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.12 3.27	5.45
22 07 19 00-0360	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.59 3.31	5.51
22 07 19 00-0361		1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0362	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.24 3.06	5.11
22 07 19 00-0363	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.49 3.11	5.17
22 07 19 00-0364	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.20 3.19	5.30
22 07 19 00-0365	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.44 3.23	5.38
22 07 19 00-0366	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.47 3.31	5.51
22 07 19 00-0367	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.04 3.39	5.66
22 07 19 00-0368	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.27 3.43	5.72
22 07 19 00-0369	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.22 3.47	5.79
22 07 19 00-0370	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.96 3.56	5.94
22 07 19 00-0371	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.57 3.60	6.00
22 07 19 00-0372		Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19) Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0373		3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0374	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.63 2.36	3.92
22 07 19 00-0375	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.76 2.36	3.92
22 07 19 00-0376	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.10 2.44	4.07
22 07 19 00-0377	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.30 2.48	4.13
22 07 19 00-0378	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.52 2.53	4.21
22 07 19 00-0379	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.80 2.57	4.29
22 07 19 00-0380	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.05 2.61	4.35
22 07 19 00-0381	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.29 2.62	4.35
22 07 19 00-0382	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.50 2.63	4.35
22 07 19 00-0383	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.72 2.65	4.42
22 07 19 00-0384	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.04 2.69	4.48
22 07 19 00-0385	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.32 2.71	4.48
22 07 19 00-0386	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.52 2.73	4.56
22 07 19 00-0387	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.80 2.75	4.56
22 07 19 00-0388	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.40 2.78	4.62
22 07 19 00-0389	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.10 2.81	4.69
22 07 19 00-0390	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.86 2.83	4.72
22 07 19 00-0391		1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.71	4.29
For Work In Restricted Working Space, Add	2.97	
22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.83	4.29
For Work In Restricted Working Space, Add	2.58	
22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.97	4.35
For Work In Restricted Working Space, Add	2.61	
22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.17	4.35
For Work In Restricted Working Space, Add	2.62	
22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	10.33	4.35
For Work In Restricted Working Space, Add	2.63	
22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	10.72	4.48
For Work In Restricted Working Space, Add	2.69	
22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.10	4.56
For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.43	4.62
For Work In Restricted Working Space, Add	2.78	
22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	11.76	4.66
For Work In Restricted Working Space, Add	2.79	
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.03	4.69
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.03	4.77
For Work In Restricted Working Space, Add	2.86	
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.63	4.83
For Work In Restricted Working Space, Add	2.90	
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.09	4.87
For Work In Restricted Working Space, Add	2.92	
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.48	4.90
For Work In Restricted Working Space, Add	2.94	
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.76	4.94
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.00	4.96
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.15	5.03
For Work In Restricted Working Space, Add	3.02	
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.43	5.07
For Work In Restricted Working Space, Add	3.04	
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.53	5.11
For Work In Restricted Working Space, Add	3.06	
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.87	5.24
For Work In Restricted Working Space, Add	3.14	
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.35	5.38
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.10	4.62
For Work In Restricted Working Space, Add	2.78	
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.39	4.69
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	11.84	4.83
For Work In Restricted Working Space, Add	2.90	
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.10	4.87
For Work In Restricted Working Space, Add	2.92	
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	12.23	4.90
For Work In Restricted Working Space, Add	2.94	
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	12.87	5.03
For Work In Restricted Working Space, Add	3.02	
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.37	5.11
For Work In Restricted Working Space, Add	3.06	
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	13.89	5.17
For Work In Restricted Working Space, Add	3.11	
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.02	5.17
For Work In Restricted Working Space, Add	3.11	
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.21	5.21
For Work In Restricted Working Space, Add	3.13	
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	14.80	5.24
For Work In Restricted Working Space, Add	3.15	
22 07 19 00-0425 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.13	5.30
For Work In Restricted Working Space, Add	3.19	
22 07 19 00-0426 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	15.79	5.34
For Work In Restricted Working Space, Add	3.20	
22 07 19 00-0427 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.26	5.38
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0428 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	16.97	5.42
For Work In Restricted Working Space, Add	3.25	
22 07 19 00-0429 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	17.24	5.45
For Work In Restricted Working Space, Add	3.27	
22 07 19 00-0430 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	18.30	5.51
For Work In Restricted Working Space, Add	3.31	
22 07 19 00-0431 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	19.15	5.55
For Work In Restricted Working Space, Add	3.33	
22 07 19 00-0432 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	20.55	5.58
For Work In Restricted Working Space, Add	3.35	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0433	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.06 3.39	5.66
22 07 19 00-0434	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.88 3.47	5.79
22 07 19 00-0435		1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0436	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.92 3.06	5.09
22 07 19 00-0437	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.29 3.11	5.17
22 07 19 00-0438	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.76 3.19	5.30
22 07 19 00-0439	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.13 3.20	5.34
22 07 19 00-0440	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.47 3.23	5.38
22 07 19 00-0441	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.07 3.31	5.51
22 07 19 00-0442	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.99 3.39	5.66
22 07 19 00-0443	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.46 3.43	5.66
22 07 19 00-0444	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.07 3.46	5.72
22 07 19 00-0445	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.29 3.47	5.79
22 07 19 00-0446	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.60 3.52	5.87
22 07 19 00-0447	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.63 3.56	5.94
22 07 19 00-0448	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.90 3.58	5.98
22 07 19 00-0449	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.29 3.60	6.00
22 07 19 00-0450	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.97 3.62	6.04
22 07 19 00-0451	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.30 3.64	6.07
22 07 19 00-0452	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.77 3.72	6.21
22 07 19 00-0453	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.45 3.77	6.28
22 07 19 00-0454	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.89 3.81	6.34
22 07 19 00-0455	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.51 3.89	6.49
22 07 19 00-0456		1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0457	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.14 3.43	5.71
22 07 19 00-0458	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.62 3.51	5.84
22 07 19 00-0459	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.00 3.53	5.87
22 07 19 00-0460	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.38 3.54	5.93
22 07 19 00-0461	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.95 3.62	6.06
22 07 19 00-0462	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.88 3.76	6.28
22 07 19 00-0463	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.10 3.80	6.19
22 07 19 00-0464	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.17 3.84	6.33
22 07 19 00-0465	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.84 3.89	6.49
22 07 19 00-0466	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.87 3.93	6.57
22 07 19 00-0467	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.78 3.97	6.64
22 07 19 00-0468	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.69 4.00	6.67
22 07 19 00-0469	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.58 4.02	6.68
22 07 19 00-0470	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.63 4.04	6.72
22 07 19 00-0471	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.29 4.05	6.75
22 07 19 00-0472	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.91 4.19	7.00
22 07 19 00-0473	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.86 4.26	7.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	42.49	7.21
<i>For Work In Restricted Working Space, Add</i>	4.33	
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	47.13	7.43
<i>For Work In Restricted Working Space, Add</i>	4.46	
22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	27.14	6.31
<i>For Work In Restricted Working Space, Add</i>	3.78	
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	28.18	6.40
<i>For Work In Restricted Working Space, Add</i>	3.86	
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	29.90	6.45
<i>For Work In Restricted Working Space, Add</i>	3.88	
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	30.49	6.50
<i>For Work In Restricted Working Space, Add</i>	3.89	
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.99	6.63
<i>For Work In Restricted Working Space, Add</i>	3.97	
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	33.87	6.94
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	34.93	6.78
<i>For Work In Restricted Working Space, Add</i>	4.19	
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	36.85	7.01
<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	38.69	7.24
<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	39.91	7.34
<i>For Work In Restricted Working Space, Add</i>	4.39	
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	42.40	7.43
<i>For Work In Restricted Working Space, Add</i>	4.43	
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	42.73	7.44
<i>For Work In Restricted Working Space, Add</i>	4.46	
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	45.04	7.45
<i>For Work In Restricted Working Space, Add</i>	4.48	
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	46.66	7.49
<i>For Work In Restricted Working Space, Add</i>	4.50	
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	48.37	7.53
<i>For Work In Restricted Working Space, Add</i>	4.51	
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	54.17	7.88
<i>For Work In Restricted Working Space, Add</i>	4.71	
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	57.54	8.04
<i>For Work In Restricted Working Space, Add</i>	4.82	
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	58.57	8.19
<i>For Work In Restricted Working Space, Add</i>	4.92	
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	65.54	8.52
<i>For Work In Restricted Working Space, Add</i>	5.11	
22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
<small>Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.</small>		
22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.36	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.44	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	8.74	4.07
<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.11	4.21
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.33	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.70	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.96	4.35
<i>For Work In Restricted Working Space, Add</i>	2.62	
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.16	4.48
<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0506 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.04	4.48
<i>For Work In Restricted Working Space, Add</i>	2.71	
22 07 19 00-0507 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.81	4.56
<i>For Work In Restricted Working Space, Add</i>	2.75	
22 07 19 00-0508 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.74	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0509 1/2" Wall Flexible Polyolefin Tubing Foam Insulation <small>(22 07 19 00-0496)</small>		
22 07 19 00-0510 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.31	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0511 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.39	4.29
<i>For Work In Restricted Working Space, Add</i>	2.58	
22 07 19 00-0512 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.56	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0513 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.79	4.35
<i>For Work In Restricted Working Space, Add</i>	2.63	
22 07 19 00-0514 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.08	4.48
<i>For Work In Restricted Working Space, Add</i>	2.69	
22 07 19 00-0515 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.49	4.56
<i>For Work In Restricted Working Space, Add</i>	2.73	
22 07 19 00-0516 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.93	4.62
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0517 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.35	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0518 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.29	4.83
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-0519 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.11	4.90
<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0520 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.65	5.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0521 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0522 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.39	4.62
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0523 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.70	4.69
<i>For Work In Restricted Working Space, Add</i>	2.81	
22 07 19 00-0524 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.10	4.83
<i>For Work In Restricted Working Space, Add</i>	2.90	
22 07 19 00-0525 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.68	4.90
<i>For Work In Restricted Working Space, Add</i>	2.94	
22 07 19 00-0526 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.24	5.03
<i>For Work In Restricted Working Space, Add</i>	3.02	
22 07 19 00-0527 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.13	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0528 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.71	5.11
<i>For Work In Restricted Working Space, Add</i>	3.08	
22 07 19 00-0529 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.37	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0530 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.67	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0531 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.83	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0532 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.05	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0533 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0534 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.19	5.11
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 07 19 00-0535 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.38	5.17
<i>For Work In Restricted Working Space, Add</i>	3.11	
22 07 19 00-0536 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.79	5.30
<i>For Work In Restricted Working Space, Add</i>	3.19	
22 07 19 00-0537 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.59	5.38
<i>For Work In Restricted Working Space, Add</i>	3.23	
22 07 19 00-0538 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.29	5.51
<i>For Work In Restricted Working Space, Add</i>	3.31	
22 07 19 00-0539 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.02	5.66
<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0540 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.69	5.66
<i>For Work In Restricted Working Space, Add</i>	3.43	
22 07 19 00-0541 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.15	5.79
<i>For Work In Restricted Working Space, Add</i>	3.47	
22 07 19 00-0542 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.12	5.94
<i>For Work In Restricted Working Space, Add</i>	3.56	
22 07 19 00-0543 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	20.52	6.00
<i>For Work In Restricted Working Space, Add</i>	3.60	
22 07 19 00-0544 Flexible Elastomeric Unicellular Insulation (22 07 19)		
Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0545 3/8" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0546 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	8.35	3.92
<i>For Work In Restricted Working Space, Add</i>	2.36	
22 07 19 00-0547 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	8.70	4.07
<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0548 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.04	4.22
<i>For Work In Restricted Working Space, Add</i>	2.53	
22 07 19 00-0549 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.26	4.29
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0550 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.49	4.35
<i>For Work In Restricted Working Space, Add</i>	2.61	
22 07 19 00-0551 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation.....	9.72	4.38
<i>For Work In Restricted Working Space, Add</i>	2.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0552 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.14 2.69	4.49
22 07 19 00-0553 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.81 2.71	4.52
22 07 19 00-0554 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.36 2.75	4.59
22 07 19 00-0555 1/2" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0556 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.17 2.53	4.22
22 07 19 00-0557 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.50 2.61	4.35
22 07 19 00-0558 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.66 2.63	4.35
22 07 19 00-0559 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	9.97 2.69	4.48
22 07 19 00-0560 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.21 2.73	4.56
22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.53 2.78	4.62
22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.01 2.81	4.69
22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.86 2.90	4.83
22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.39 2.94	4.90
22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.35 2.98	4.96
22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.85 3.02	5.03
22 07 19 00-0567 3/4" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.31 2.75	4.60
22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	10.88 2.90	4.83
22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.27 2.94	4.90
22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	11.87 3.02	5.04
22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.25 3.06	5.11
22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.08 3.11	5.17
22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.73 3.13	5.21
22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	14.81 3.19	5.32
22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.54 3.23	5.38
22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	16.70 3.27	5.45
22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	17.28 3.31	5.51
22 07 19 00-0579 1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
22 07 19 00-0580 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.27 3.06	5.11
22 07 19 00-0581 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	12.82 3.19	5.32
22 07 19 00-0582 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	13.47 3.23	5.38
22 07 19 00-0583 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	14.33 3.31	5.51
22 07 19 00-0584 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.14 3.39	5.66
22 07 19 00-0585 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	15.68 3.43	5.72
22 07 19 00-0586 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	16.68 3.47	5.79
22 07 19 00-0587 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	19.06 3.56	5.94
22 07 19 00-0588 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	20.73 3.60	6.00
22 07 19 00-0589 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	21.67 3.64	6.07
22 07 19 00-0590 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	23.60 3.72	6.21

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0591 Insulation Foam Rubber <small>(22 07 19)</small>		
22 07 19 00-0592 Covering 4x6 Sheet <small>(22 07 19 00-0591)</small>		
22 07 19 00-0593 SF 1" Thick Foam Rubber Sheet Insulation.....	24.49	9.33
22 07 19 00-0594 Insulation Protective Jacketing <small>(22 07 19)</small>		
Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595 Aluminum Insulation Protective Jacketing With Bands <small>(22 07 19 00-0594)</small>		
22 07 19 00-0596 Aluminum Roll, Insulation Protective Jacketing With Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0597 SF 0.006" Aluminum Insulation Jacket With Bands.....	19.58	8.40
22 07 19 00-0598 SF 0.010" Aluminum Insulation Jacket With Bands.....	19.85	8.40
22 07 19 00-0599 SF 0.016" Aluminum Insulation Jacket With Bands.....	20.11	8.40
22 07 19 00-0600 SF 0.020" Aluminum Insulation Jacket With Bands.....	20.35	8.40
22 07 19 00-0601 SF 0.024" Aluminum Insulation Jacket With Bands.....	20.58	8.40
22 07 19 00-0602 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0603 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing.....	9.91	2.38
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0604 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing.....	10.24	2.44
For Stucco Embossed, Add	0.00	
For Corrugated, Add	0.01	
22 07 19 00-0605 LF 1" ID, 0.016" Aluminum Insulation Jacketing.....	10.58	2.51
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0606 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	10.93	2.57
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0607 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	11.19	2.60
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0608 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	11.45	2.64
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0609 LF 2" ID, 0.016" Aluminum Insulation Jacketing.....	11.77	2.70
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0610 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	12.11	2.75
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0611 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	12.47	2.81
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0612 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	12.76	2.86
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0613 LF 3" ID, 0.016" Aluminum Insulation Jacketing.....	13.13	2.92
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0614 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	13.51	2.99
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0615 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	13.88	3.06
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0616 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	14.22	3.11
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0617 LF 4" ID, 0.016" Aluminum Insulation Jacketing.....	14.63	3.18
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0618 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	15.05	3.26
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0619 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	15.50	3.35
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0620 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing.....	15.86	3.41
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0621 LF 5" ID, 0.016" Aluminum Insulation Jacketing.....	16.33	3.50
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0622 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing.....	16.83	3.60
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0623 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing.....	17.23	3.67
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.77 0.03 0.07	3.78
22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.33 0.03 0.07	3.89
22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.68 0.03 0.07	3.95
22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.03 0.03 0.07	4.01
22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.61 0.03 0.08	4.10
22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.10 0.03 0.08	4.21
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.48 0.03 0.09	4.27
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.99 0.04 0.09	4.35
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.49 0.04 0.10	4.42
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.15 0.04 0.10	4.53
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.70 0.04 0.11	4.61
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.25 0.04 0.11	4.69
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.80 0.05 0.12	4.78
22 07 19 00-0637 LF 11" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.55 0.05 0.12	4.91
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.15 0.05 0.13	5.00
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.76 0.05 0.13	5.10
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.58 0.06 0.14	5.25
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.01 0.06 0.14	5.30
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.67 0.06 0.16	5.36
22 07 19 00-0643 LF 15" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.17	5.47
22 07 19 00-0644 LF 16" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.21 0.07 0.18	5.53
22 07 19 00-0645 LF 17" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.13 0.08 0.19	5.64
22 07 19 00-0646 LF 18" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.66 0.08 0.20	5.70
22 07 19 00-0647 LF 19" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.74 0.08 0.21	5.84
22 07 19 00-0648 LF 20" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.45 0.09 0.22	5.91
22 07 19 00-0649 LF 21" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.42 0.09 0.23	6.04
22 07 19 00-0650 LF 22" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.13 0.10 0.24	6.11
22 07 19 00-0651 LF 23" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.15 0.10 0.25	6.26

22	Plumbing
22 07	Plumbing Insulation
22 07 19	Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0652 LF 24" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.88 0.11 0.26	6.33
22 07 19 00-0653 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0654 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.96 0.00 0.01	2.63
22 07 19 00-0655 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.34 0.01 0.02	2.69
22 07 19 00-0656 LF 1" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.74 0.01 0.02	2.75
22 07 19 00-0657 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.15 0.01 0.02	2.82
22 07 19 00-0658 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.44 0.01 0.03	2.86
22 07 19 00-0659 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.75 0.01 0.03	2.91
22 07 19 00-0660 LF 2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.13 0.01 0.03	2.97
22 07 19 00-0661 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.51 0.01 0.04	3.03
22 07 19 00-0662 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.91 0.02 0.04	3.09
22 07 19 00-0663 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.27 0.02 0.04	3.14
22 07 19 00-0664 LF 3" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.69 0.02 0.05	3.21
22 07 19 00-0665 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.12 0.02 0.05	3.28
22 07 19 00-0666 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.57 0.02 0.05	3.36
22 07 19 00-0667 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.93 0.02 0.06	3.42
22 07 19 00-0668 LF 4" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.40 0.02 0.06	3.50
22 07 19 00-0669 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.89 0.03 0.06	3.59
22 07 19 00-0670 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.41 0.03 0.07	3.68
22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.83 0.03 0.07	3.75
22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.37 0.03 0.07	3.85
22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.93 0.03 0.08	3.95
22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.39 0.03 0.08	4.04
22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.01 0.03 0.08	4.16
22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.64 0.04 0.09	4.28
22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.03 0.04 0.09	4.35
22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.44 0.04 0.09	4.41
22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.11 0.04 0.10	4.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.67 0.04 0.10	4.62
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.11 0.04 0.11	4.70
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.71 0.05 0.11	4.78
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.28 0.05 0.12	4.86
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.06 0.05 0.13	4.98
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.70 0.05 0.14	5.07
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.33 0.06 0.14	5.16
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.98 0.06 0.15	5.25
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.84 0.06 0.16	5.40
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.54 0.07 0.16	5.50
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.24 0.07 0.17	5.61
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.18 0.07 0.18	5.77
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.69 0.07 0.18	5.84
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.49 0.08 0.20	5.90
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.53 0.08 0.21	6.02
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.34 0.09 0.23	6.09
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.41 0.10 0.24	6.22
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.05 0.10 0.25	6.28
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.33 0.11 0.27	6.42
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.19 0.11 0.28	6.49
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.34 0.12 0.29	6.64
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.18 0.12 0.31	6.72
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.39 0.13 0.32	6.88
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.27 0.13 0.34	6.96
22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.01 0.01 0.01	2.87
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.44 0.01 0.02	2.93
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.88 0.01 0.02	3.00

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.33 0.01 0.03	3.08
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.69 0.01 0.03	3.12
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.03 0.01 0.03	3.17
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.46 0.02 0.04	3.23
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.89 0.02 0.04	3.30
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.35 0.02 0.05	3.37
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.74 0.02 0.05	3.43
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.22 0.02 0.06	3.50
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.71 0.02 0.06	3.58
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.20 0.03 0.06	3.66
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.63 0.03 0.07	3.73
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.15 0.03 0.07	3.82
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.69 0.03 0.08	3.91
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.28 0.03 0.08	4.01
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.75 0.03 0.08	4.09
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.35 0.04 0.09	4.21
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.96 0.04 0.09	4.32
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.51 0.04 0.10	4.41
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.19 0.04 0.10	4.54
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.88 0.04 0.11	4.67
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.33 0.04 0.11	4.74
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.79 0.05 0.11	4.81
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.54 0.05 0.12	4.92
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.18 0.05 0.13	5.04
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.66 0.05 0.13	5.12
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.36 0.06 0.14	5.21
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.01 0.06 0.15	5.29
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.88 0.06 0.15	5.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.60 0.06 0.16	5.53
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.34 0.07 0.17	5.62
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.06 0.07 0.18	5.73
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.03 0.07 0.19	5.90
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.83 0.08 0.20	6.01
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.62 0.08 0.20	6.12
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.68 0.08 0.21	6.31
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.25 0.09 0.22	6.37
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.19 0.09 0.24	6.43
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.39 0.10 0.25	6.57
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.33 0.11 0.27	6.63
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.55 0.11 0.29	6.78
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.30 0.12 0.30	6.85
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.78 0.13 0.32	7.00
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.76 0.13 0.34	7.08
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.07 0.14 0.35	7.24
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.06 0.15 0.37	7.33
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.42 0.15 0.39	7.51
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.43 0.16 0.40	7.60
22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0756 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.01 0.02	3.18
22 07 19 00-0757 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.96 0.01 0.02	3.25
22 07 19 00-0758 LF 1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.48 0.01 0.03	3.33
22 07 19 00-0759 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.02 0.01 0.03	3.41
22 07 19 00-0760 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.04	3.46
22 07 19 00-0761 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.87 0.02 0.05	3.51
22 07 19 00-0762 LF 2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.38 0.02 0.05	3.58
22 07 19 00-0763 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.90 0.02 0.06	3.66

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0764	LF		2-1/2" ID, 0.032" Aluminum Insulation Jacketing	17.45	3.73
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0765	LF		2-3/4" ID, 0.032" Aluminum Insulation Jacketing	17.92	3.79
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0766	LF		3" ID, 0.032" Aluminum Insulation Jacketing.....	18.50	3.88
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0767	LF		3-1/4" ID, 0.032" Aluminum Insulation Jacketing	19.08	3.97
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0768	LF		3-1/2" ID, 0.032" Aluminum Insulation Jacketing	19.66	4.06
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0769	LF		3-3/4" ID, 0.032" Aluminum Insulation Jacketing	20.16	4.13
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0770	LF		4" ID, 0.032" Aluminum Insulation Jacketing.....	20.78	4.24
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0771	LF		4-1/4" ID, 0.032" Aluminum Insulation Jacketing	21.42	4.34
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0772	LF		4-1/2" ID, 0.032" Aluminum Insulation Jacketing	22.12	4.45
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0773	LF		4-3/4" ID, 0.032" Aluminum Insulation Jacketing	22.68	4.54
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0774	LF		5" ID, 0.032" Aluminum Insulation Jacketing.....	23.38	4.66
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0775	LF		5-1/4" ID, 0.032" Aluminum Insulation Jacketing	24.11	4.79
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0776	LF		5-1/2" ID, 0.032" Aluminum Insulation Jacketing	24.73	4.89
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0777	LF		5-3/4" ID, 0.032" Aluminum Insulation Jacketing	25.54	5.03
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0778	LF		6" ID, 0.032" Aluminum Insulation Jacketing.....	26.34	5.17
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0779	LF		6-1/4" ID, 0.032" Aluminum Insulation Jacketing	26.88	5.25
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0780	LF		6-1/2" ID, 0.032" Aluminum Insulation Jacketing	27.42	5.33
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0781	LF		7" ID, 0.032" Aluminum Insulation Jacketing.....	28.33	5.45
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0782	LF		7-1/4" ID, 0.032" Aluminum Insulation Jacketing	29.07	5.59
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0783	LF		7-1/2" ID, 0.032" Aluminum Insulation Jacketing	29.66	5.68
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0784	LF		8" ID, 0.032" Aluminum Insulation Jacketing.....	30.49	5.77
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0785	LF		8-1/2" ID, 0.032" Aluminum Insulation Jacketing	31.29	5.88
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0786	LF		9" ID, 0.032" Aluminum Insulation Jacketing.....	32.34	6.03
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0787	LF		9-1/2" ID, 0.032" Aluminum Insulation Jacketing	33.22	6.13
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0788	LF		10" ID, 0.032" Aluminum Insulation Jacketing.....	34.10	6.24
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0789	LF		10-1/2" ID, 0.032" Aluminum Insulation Jacketing	34.99	6.35
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0790	LF		11" ID, 0.0106 Aluminum Insulation Jacketing.....	36.15	6.53
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0791	LF		11-1/2" ID, 0.032" Aluminum Insulation Jacketing	37.10	6.65
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing	38.06	6.78
<i>For Stucco Embossed, Add</i>	<i>0.11</i>	
<i>For Corrugated, Add</i>	<i>0.27</i>	
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing	39.31	6.98
<i>For Stucco Embossed, Add</i>	<i>0.11</i>	
<i>For Corrugated, Add</i>	<i>0.28</i>	
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing	40.03	7.05
<i>For Stucco Embossed, Add</i>	<i>0.12</i>	
<i>For Corrugated, Add</i>	<i>0.30</i>	
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing	41.21	7.13
<i>For Stucco Embossed, Add</i>	<i>0.13</i>	
<i>For Corrugated, Add</i>	<i>0.32</i>	
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing	42.69	7.27
<i>For Stucco Embossed, Add</i>	<i>0.14</i>	
<i>For Corrugated, Add</i>	<i>0.34</i>	
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing	43.90	7.35
<i>For Stucco Embossed, Add</i>	<i>0.14</i>	
<i>For Corrugated, Add</i>	<i>0.36</i>	
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing	45.40	7.52
<i>For Stucco Embossed, Add</i>	<i>0.15</i>	
<i>For Corrugated, Add</i>	<i>0.38</i>	
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing	46.32	7.60
<i>For Stucco Embossed, Add</i>	<i>0.16</i>	
<i>For Corrugated, Add</i>	<i>0.40</i>	
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing	48.18	7.77
<i>For Stucco Embossed, Add</i>	<i>0.17</i>	
<i>For Corrugated, Add</i>	<i>0.43</i>	
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing	49.43	7.85
<i>For Stucco Embossed, Add</i>	<i>0.18</i>	
<i>For Corrugated, Add</i>	<i>0.45</i>	
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing	51.02	8.03
<i>For Stucco Embossed, Add</i>	<i>0.19</i>	
<i>For Corrugated, Add</i>	<i>0.47</i>	
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing	52.28	8.12
<i>For Stucco Embossed, Add</i>	<i>0.20</i>	
<i>For Corrugated, Add</i>	<i>0.49</i>	
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing	53.95	8.32
<i>For Stucco Embossed, Add</i>	<i>0.21</i>	
<i>For Corrugated, Add</i>	<i>0.52</i>	
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing	55.21	8.42
<i>For Stucco Embossed, Add</i>	<i>0.22</i>	
<i>For Corrugated, Add</i>	<i>0.54</i>	
22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing	15.54	3.65
<i>For Stucco Embossed, Add</i>	<i>0.01</i>	
<i>For Corrugated, Add</i>	<i>0.02</i>	
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing	16.15	3.74
<i>For Stucco Embossed, Add</i>	<i>0.01</i>	
<i>For Corrugated, Add</i>	<i>0.03</i>	
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing	16.78	3.82
<i>For Stucco Embossed, Add</i>	<i>0.01</i>	
<i>For Corrugated, Add</i>	<i>0.04</i>	
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing	17.43	3.92
<i>For Stucco Embossed, Add</i>	<i>0.02</i>	
<i>For Corrugated, Add</i>	<i>0.04</i>	
22 07 19 00-0811 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing	17.94	3.97
<i>For Stucco Embossed, Add</i>	<i>0.02</i>	
<i>For Corrugated, Add</i>	<i>0.05</i>	
22 07 19 00-0812 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing	18.46	4.03
<i>For Stucco Embossed, Add</i>	<i>0.02</i>	
<i>For Corrugated, Add</i>	<i>0.06</i>	
22 07 19 00-0813 LF 2" ID, 0.040" Aluminum Insulation Jacketing	19.06	4.12
<i>For Stucco Embossed, Add</i>	<i>0.03</i>	
<i>For Corrugated, Add</i>	<i>0.06</i>	
22 07 19 00-0814 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing	19.68	4.21
<i>For Stucco Embossed, Add</i>	<i>0.03</i>	
<i>For Corrugated, Add</i>	<i>0.07</i>	
22 07 19 00-0815 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing	20.34	4.30
<i>For Stucco Embossed, Add</i>	<i>0.03</i>	
<i>For Corrugated, Add</i>	<i>0.08</i>	
22 07 19 00-0816 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing	20.91	4.37
<i>For Stucco Embossed, Add</i>	<i>0.03</i>	
<i>For Corrugated, Add</i>	<i>0.09</i>	
22 07 19 00-0817 LF 3" ID, 0.040" Aluminum Insulation Jacketing	21.60	4.47
<i>For Stucco Embossed, Add</i>	<i>0.04</i>	
<i>For Corrugated, Add</i>	<i>0.09</i>	
22 07 19 00-0818 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing	22.27	4.57
<i>For Stucco Embossed, Add</i>	<i>0.04</i>	
<i>For Corrugated, Add</i>	<i>0.10</i>	
22 07 19 00-0819 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing	22.98	4.67
<i>For Stucco Embossed, Add</i>	<i>0.04</i>	
<i>For Corrugated, Add</i>	<i>0.11</i>	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0820	LF		3-3/4" ID, 0.040" Aluminum Insulation Jacketing	23.58	4.76
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0821	LF		4" ID, 0.040" Aluminum Insulation Jacketing.....	24.31	4.87
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0822	LF		4-1/4" ID, 0.040" Aluminum Insulation Jacketing	25.08	4.99
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0823	LF		4-1/2" ID, 0.040" Aluminum Insulation Jacketing	25.89	5.12
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0824	LF		4-3/4" ID, 0.040" Aluminum Insulation Jacketing	26.57	5.22
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0825	LF		5" ID, 0.040" Aluminum Insulation Jacketing.....	27.39	5.36
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0826	LF		5-1/4" ID, 0.040" Aluminum Insulation Jacketing	28.26	5.50
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0827	LF		5-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.99	5.62
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0828	LF		5-3/4" ID, 0.040" Aluminum Insulation Jacketing	29.95	5.78
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0829	LF		6" ID, 0.040" Aluminum Insulation Jacketing.....	30.91	5.96
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0830	LF		6-1/4" ID, 0.040" Aluminum Insulation Jacketing	31.54	6.05
			<i>For Stucco Embossed, Add</i>	0.07	
			<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0831	LF		6-1/2" ID, 0.040" Aluminum Insulation Jacketing	32.18	6.14
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0832	LF		7" ID, 0.040" Aluminum Insulation Jacketing.....	33.27	6.28
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0833	LF		7-1/4" ID, 0.040" Aluminum Insulation Jacketing	34.15	6.43
			<i>For Stucco Embossed, Add</i>	0.08	
			<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0834	LF		7-1/2" ID, 0.040" Aluminum Insulation Jacketing	34.85	6.53
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0835	LF		8" ID, 0.040" Aluminum Insulation Jacketing.....	35.85	6.65
			<i>For Stucco Embossed, Add</i>	0.09	
			<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0836	LF		8-1/2" ID, 0.040" Aluminum Insulation Jacketing	36.81	6.75
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0837	LF		9" ID, 0.040" Aluminum Insulation Jacketing.....	38.06	6.93
			<i>For Stucco Embossed, Add</i>	0.10	
			<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0838	LF		9-1/2" ID, 0.040" Aluminum Insulation Jacketing	39.14	7.05
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.27	
22 07 19 00-0839	LF		10" ID, 0.040" Aluminum Insulation Jacketing.....	40.18	7.17
			<i>For Stucco Embossed, Add</i>	0.11	
			<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0840	LF		10-1/2" ID, 0.040" Aluminum Insulation Jacketing	41.26	7.30
			<i>For Stucco Embossed, Add</i>	0.12	
			<i>For Corrugated, Add</i>	0.30	
22 07 19 00-0841	LF		11" ID, 0.0106 Aluminum Insulation Jacketing.....	42.62	7.52
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0842	LF		11-1/2" ID, 0.040" Aluminum Insulation Jacketing	43.77	7.66
			<i>For Stucco Embossed, Add</i>	0.13	
			<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0843	LF		12" ID, 0.040" Aluminum Insulation Jacketing.....	44.92	7.81
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0844	LF		12-1/2" ID, 0.040" Aluminum Insulation Jacketing	46.40	8.04
			<i>For Stucco Embossed, Add</i>	0.14	
			<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0845	LF		13" ID, 0.040" Aluminum Insulation Jacketing.....	47.29	8.12
			<i>For Stucco Embossed, Add</i>	0.15	
			<i>For Corrugated, Add</i>	0.37	
22 07 19 00-0846	LF		14" ID, 0.040" Aluminum Insulation Jacketing.....	48.75	8.20
			<i>For Stucco Embossed, Add</i>	0.16	
			<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0847	LF		15" ID, 0.040" Aluminum Insulation Jacketing.....	50.52	8.37
			<i>For Stucco Embossed, Add</i>	0.17	
			<i>For Corrugated, Add</i>	0.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.00 0.18 0.45	8.46
22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.84 0.19 0.48	8.64
22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.96 0.20 0.50	8.73
22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.21 0.21 0.54	8.93
22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.75 0.23 0.57	9.03
22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.67 0.24 0.59	9.24
22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	62.20 0.25 0.62	9.35
22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	64.22 0.26 0.65	9.57
22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.78 0.27 0.68	9.68

22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0595)

22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	20.45	3.75
22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	21.00	3.89
22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.00	4.04
22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.26	4.10
22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.51	4.17
22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.92	4.27
22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.93	4.38
22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.38	4.49
22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.04	4.57
22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	27.59	4.65
22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.51	4.78
22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.14	4.86
22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.50	4.96
22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	29.88	5.05
22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.50	5.15
22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	33.60	5.25
22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.34	5.41
22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.79	5.53
22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.22	5.70
22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	36.72	5.84
22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	40.26	6.04
22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	44.27	6.18
22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	44.56	6.26
22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	54.06	6.33
22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.06	6.41
22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	65.87	6.57
22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	66.54	6.73
22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	56.42	6.82
22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	56.79	6.91
22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.78	7.00
22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	58.16	7.10
22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.02	7.29
22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.43	7.39
22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.68	7.62
22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	91.13	7.73
22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	112.60	7.96
22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	117.27	8.21
22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	125.47	8.34
22 07 19 00-0896 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.32	4.17
22 07 19 00-0897 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.73	4.27
22 07 19 00-0898 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	23.90	4.38
22 07 19 00-0899 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.35	4.49
22 07 19 00-0900 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	25.55	4.57
22 07 19 00-0901 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.87	4.65
22 07 19 00-0902 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	26.51	4.78
22 07 19 00-0903 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.91	4.86
22 07 19 00-0904 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.27	4.96
22 07 19 00-0905 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.65	5.05
22 07 19 00-0906 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	30.51	5.15
22 07 19 00-0907 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.93	5.25
22 07 19 00-0908 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.06	5.41
22 07 19 00-0909 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.24	5.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0910 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	38.52	6.04
22 07 19 00-0911 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.09	6.18
22 07 19 00-0912 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	39.81	6.33
22 07 19 00-0913 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	40.12	6.41
22 07 19 00-0914 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.30	6.57
22 07 19 00-0915 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.97	6.73
22 07 19 00-0916 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.32	6.82
22 07 19 00-0917 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	52.69	6.91
22 07 19 00-0918 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.43	7.00
22 07 19 00-0919 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	51.81	7.10
22 07 19 00-0920 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.31	7.29
22 07 19 00-0921 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.72	7.39
22 07 19 00-0922 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	63.92	7.73
22 07 19 00-0923 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	72.35	7.96
22 07 19 00-0924 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	95.26	8.21
22 07 19 00-0925 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	101.03	8.34
22 07 19 00-0926 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	99.96	8.47
22 07 19 00-0927 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	109.83	8.61
22 07 19 00-0928 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	127.10	8.75
22 07 19 00-0929 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	124.66	8.90
22 07 19 00-0930 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	132.36	9.05
22 07 19 00-0931 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing	62.68	5.97
22 07 19 00-0932 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing	63.24	6.11
22 07 19 00-0933 EA 3" ID, Aluminum Tee Insulation Jacketing	68.85	6.26
22 07 19 00-0934 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing	69.46	6.41
22 07 19 00-0935 EA 3-1/2" ID Aluminum Tee Insulation Jacketing	72.20	6.57
22 07 19 00-0936 EA 4" ID, Aluminum Tee Insulation Jacketing	73.37	6.73
22 07 19 00-0937 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing	76.77	6.91
22 07 19 00-0938 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing	77.11	7.10
22 07 19 00-0939 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing	77.90	7.29
22 07 19 00-0940 EA 5" ID, Aluminum Tee Insulation Jacketing	80.55	7.51
22 07 19 00-0941 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing	81.44	7.73
22 07 19 00-0942 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing	84.60	7.96
22 07 19 00-0943 EA 6" ID, Aluminum Tee Insulation Jacketing	85.60	8.21
22 07 19 00-0944 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing	92.99	8.75
22 07 19 00-0945 EA 7" ID, Aluminum Tee Insulation Jacketing	94.20	9.05
22 07 19 00-0946 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing	101.98	9.38
22 07 19 00-0947 EA 8" ID, Aluminum Tee Insulation Jacketing	103.36	9.73
22 07 19 00-0948 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing	106.56	10.10
22 07 19 00-0949 EA 9" ID, Aluminum Tee Insulation Jacketing	108.18	10.50
22 07 19 00-0950 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing	91.98	10.72
22 07 19 00-0951 EA 10" ID, Aluminum Tee Insulation Jacketing	92.87	10.95
22 07 19 00-0952 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing	97.01	11.18
22 07 19 00-0953 EA 11" ID, Aluminum Tee Insulation Jacketing	97.99	11.42
22 07 19 00-0954 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing	101.85	11.67
22 07 19 00-0955 EA 12" ID, Aluminum Tee Insulation Jacketing	102.91	11.94
22 07 19 00-0956 EA 13" ID, Aluminum Tee Insulation Jacketing	106.76	12.21
22 07 19 00-0957 EA 14" ID, Aluminum Tee Insulation Jacketing	110.76	12.51
22 07 19 00-0958 EA 15" ID, Aluminum Tee Insulation Jacketing	116.95	12.81
22 07 19 00-0959 EA 16" ID, Aluminum Tee Insulation Jacketing	119.87	13.13
22 07 19 00-0960 EA 17" ID, Aluminum Tee Insulation Jacketing	131.30	13.47
22 07 19 00-0961 EA 18" ID, Aluminum Tee Insulation Jacketing	135.73	13.82
22 07 19 00-0962 EA 19" ID, Aluminum Tee Insulation Jacketing	145.74	14.20
22 07 19 00-0963 EA 20" ID, Aluminum Tee Insulation Jacketing	149.26	14.59
22 07 19 00-0964 EA 22" ID, Aluminum Tee Insulation Jacketing	175.66	15.01
22 07 19 00-0965 EA 23" ID, Aluminum Tee Insulation Jacketing	180.64	15.45
22 07 19 00-0966 EA 24" ID, Aluminum Tee Insulation Jacketing	189.72	16.94
22 07 19 00-0967 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)		
22 07 19 00-0968 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)		
22 07 19 00-0969 SF 0.010" Stainless Steel Insulation Jacket With Bands	23.81	9.85
22 07 19 00-0970 SF 0.016" Stainless Steel Insulation Jacket With Bands	29.06	11.82
22 07 19 00-0971 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)		
22 07 19 00-0972 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	11.84	2.10
22 07 19 00-0973 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.31	2.14
22 07 19 00-0974 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing	12.80	2.19
22 07 19 00-0975 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.30	2.23
22 07 19 00-0976 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	13.81	2.28
22 07 19 00-0977 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.31	2.33
22 07 19 00-0978 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing	14.82	2.38
22 07 19 00-0979 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.35	2.44
22 07 19 00-0980 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.88	2.51
22 07 19 00-0981 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing	17.00	2.63
22 07 19 00-0982 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	18.17	2.77
22 07 19 00-0983 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing	19.39	2.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0984 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.32	3.00
22 07 19 00-0985 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing	21.29	3.09
22 07 19 00-0986 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.36	3.20
22 07 19 00-0987 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing	23.21	3.26
22 07 19 00-0988 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	24.07	3.32
22 07 19 00-0989 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing	24.94	3.39
22 07 19 00-0990 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	25.82	3.45
22 07 19 00-0991 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing	26.71	3.52
22 07 19 00-0992 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	27.61	3.60
22 07 19 00-0993 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing	28.52	3.67
22 07 19 00-0994 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing	30.38	3.83
22 07 19 00-0995 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing	32.19	3.98
22 07 19 00-0996 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing	33.65	4.04

22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0998 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	16.17	2.80
22 07 19 00-0999 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	16.84	2.85
22 07 19 00-1000 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing	17.51	2.91
22 07 19 00-1001 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	18.22	2.98
22 07 19 00-1002 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	18.92	3.04
22 07 19 00-1003 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	19.62	3.11
22 07 19 00-1004 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing	20.36	3.18
22 07 19 00-1005 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	21.09	3.25
22 07 19 00-1006 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.84	3.33
22 07 19 00-1007 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing	23.40	3.49
22 07 19 00-1008 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	25.02	3.67
22 07 19 00-1009 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing	26.71	3.88
22 07 19 00-1010 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	28.04	3.99
22 07 19 00-1011 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing	29.41	4.10
22 07 19 00-1012 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	30.89	4.26
22 07 19 00-1013 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing	32.08	4.34
22 07 19 00-1014 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	33.30	4.43
22 07 19 00-1015 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing	34.54	4.51
22 07 19 00-1016 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	35.77	4.60
22 07 19 00-1017 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing	37.02	4.69
22 07 19 00-1018 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	38.31	4.79
22 07 19 00-1019 LF 11" ID, 0.016" Stainless Steel Insulation Jacketing	39.59	4.89
22 07 19 00-1020 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing	42.21	5.10
22 07 19 00-1021 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing	44.77	5.29
22 07 19 00-1022 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing	46.86	5.37

22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)

22 07 19 00-1024 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	31.86	4.17
22 07 19 00-1025 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	32.27	4.27
22 07 19 00-1026 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.39	4.38
22 07 19 00-1027 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	33.84	4.49
22 07 19 00-1028 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	34.96	4.57
22 07 19 00-1029 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.22	4.65
22 07 19 00-1030 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	38.48	4.78
22 07 19 00-1031 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.22	4.86
22 07 19 00-1032 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	45.58	4.96
22 07 19 00-1033 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	46.95	5.15
22 07 19 00-1034 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	60.95	5.41
22 07 19 00-1035 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	65.97	5.70
22 07 19 00-1036 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	83.52	6.04
22 07 19 00-1037 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	84.09	6.18
22 07 19 00-1038 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	94.63	6.33
22 07 19 00-1039 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	95.58	6.57
22 07 19 00-1040 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	97.94	6.57
22 07 19 00-1041 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	135.95	6.73
22 07 19 00-1042 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.41	6.82
22 07 19 00-1043 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	134.78	6.91
22 07 19 00-1044 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	156.19	7.00
22 07 19 00-1045 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	150.75	7.10
22 07 19 00-1046 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	168.50	7.39
22 07 19 00-1047 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	223.35	7.73
22 07 19 00-1048 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	225.59	7.96
22 07 19 00-1049 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.33	4.17
22 07 19 00-1050 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	29.74	4.27
22 07 19 00-1051 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.13	4.38
22 07 19 00-1052 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	31.58	4.49
22 07 19 00-1053 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.06	4.57
22 07 19 00-1054 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.38	4.65
22 07 19 00-1055 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.83	4.78
22 07 19 00-1056 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.35	4.86
22 07 19 00-1057 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	44.71	4.96
22 07 19 00-1058 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	45.09	5.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1059 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	45.90	5.15
22 07 19 00-1060 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	46.97	5.41
22 07 19 00-1061 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	52.87	5.70
22 07 19 00-1062 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	54.18	6.04
22 07 19 00-1063 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	75.53	6.18
22 07 19 00-1064 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	77.17	6.33
22 07 19 00-1065 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	77.48	6.41
22 07 19 00-1066 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	86.94	6.57
22 07 19 00-1067 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	87.61	6.73
22 07 19 00-1068 EA 9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.52	6.82
22 07 19 00-1069 EA 10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	98.89	6.91
22 07 19 00-1070 EA 10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	113.63	7.00
22 07 19 00-1071 EA 11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	114.01	7.10
22 07 19 00-1072 EA 12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	122.57	7.39
22 07 19 00-1073 EA 13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	140.31	7.73
22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)		
22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1076 LF 1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.70	1.94
22 07 19 00-1077 LF 2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.30	2.02
22 07 19 00-1078 LF 2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.85	2.10
22 07 19 00-1079 LF 3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.50	2.19
22 07 19 00-1080 LF 3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.12	2.28
22 07 19 00-1081 LF 4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.80	2.38
22 07 19 00-1082 LF 4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.52	2.51
22 07 19 00-1083 LF 5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.25	2.63
22 07 19 00-1084 LF 5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.07	2.77
22 07 19 00-1085 LF 6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.95	2.92
22 07 19 00-1086 LF 6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.55	3.00
22 07 19 00-1087 LF 7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.13	3.09
22 07 19 00-1088 LF 7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.89	3.20
22 07 19 00-1089 LF 8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.36	3.26
22 07 19 00-1090 LF 8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.88	3.32
22 07 19 00-1091 LF 9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.39	3.39
22 07 19 00-1092 LF 9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.93	3.45
22 07 19 00-1093 LF 10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.45	3.52
22 07 19 00-1094 LF 10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.00	3.60
22 07 19 00-1095 LF 11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.56	3.67
22 07 19 00-1096 LF 11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.15	3.75
22 07 19 00-1097 LF 12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.70	3.83
22 07 19 00-1098 LF 12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.34	3.92
22 07 19 00-1099 LF 13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.82	3.98
22 07 19 00-1100 LF 13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.09	3.98
22 07 19 00-1101 LF 14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.60	4.04
22 07 19 00-1102 LF 15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.39	4.10
22 07 19 00-1103 LF 16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.14	4.17
22 07 19 00-1104 LF 17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.94	4.24
22 07 19 00-1105 LF 18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.75	4.31
22 07 19 00-1106 LF 19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.54	4.38
22 07 19 00-1107 LF 20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.37	4.45
22 07 19 00-1108 LF 21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.17	4.53
22 07 19 00-1109 LF 22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.02	4.61
22 07 19 00-1110 LF 23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.85	4.69
22 07 19 00-1111 LF 24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.72	4.78
22 07 19 00-1112 LF 25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.62	4.86
22 07 19 00-1113 LF 26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.47	4.96
22 07 19 00-1114 LF 27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.39	5.05
22 07 19 00-1115 LF 28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.27	5.15
22 07 19 00-1116 LF 29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.23	5.25
22 07 19 00-1117 LF 30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.19	5.36
22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)		
22 07 19 00-1119 LF 2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	9.87	2.02
22 07 19 00-1120 LF 2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.57	2.10
22 07 19 00-1121 LF 3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.34	2.19
22 07 19 00-1122 LF 3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.08	2.28
22 07 19 00-1123 LF 4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.87	2.38
22 07 19 00-1124 LF 4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.70	2.51
22 07 19 00-1125 LF 5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.58	2.63
22 07 19 00-1126 LF 5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.77
22 07 19 00-1127 LF 6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.51	2.92
22 07 19 00-1128 LF 6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.22	3.00
22 07 19 00-1129 LF 7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.96	3.09
22 07 19 00-1130 LF 7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.84	3.20
22 07 19 00-1131 LF 8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.46	3.26
22 07 19 00-1132 LF 8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.09	3.32
22 07 19 00-1133 LF 9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.72	3.39
22 07 19 00-1134 LF 9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.37	3.45



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1135	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.04	3.52
22 07 19 00-1136	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.70	3.60
22 07 19 00-1137	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.39	3.67
22 07 19 00-1138	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.09	3.75
22 07 19 00-1139	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.79	3.83
22 07 19 00-1140	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.55	3.92
22 07 19 00-1141	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.18	3.98
22 07 19 00-1142	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.56	3.98
22 07 19 00-1143	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.18	4.04
22 07 19 00-1144	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.20	4.10
22 07 19 00-1145	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.22	4.17
22 07 19 00-1146	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.25	4.24
22 07 19 00-1147	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.33	4.31
22 07 19 00-1148	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.38	4.38
22 07 19 00-1149	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.45	4.45
22 07 19 00-1150	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	34.51	4.53
22 07 19 00-1151	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.59	4.61
22 07 19 00-1152	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.69	4.69
22 07 19 00-1153	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	37.79	4.78
22 07 19 00-1154	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.95	4.86
22 07 19 00-1155	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.07	4.96
22 07 19 00-1156	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.21	5.05
22 07 19 00-1157	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	42.37	5.15
22 07 19 00-1158	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.55	5.25
22 07 19 00-1159	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.74	5.36
22 07 19 00-1160 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-				
1074)				
22 07 19 00-1161	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.66	3.89
22 07 19 00-1162	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1163	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1164	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.87	4.17
22 07 19 00-1165	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1166	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1167	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1168	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1169	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1170	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1171	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1172	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1173	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	41.53	5.84
22 07 19 00-1174	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1175	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1176	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1177	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1178	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1179	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	76.67	7.10
22 07 19 00-1180	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	84.93	7.39
22 07 19 00-1181	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	100.77	7.73
22 07 19 00-1182	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	111.69	7.96
22 07 19 00-1183	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	118.64	8.21
22 07 19 00-1184	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	127.02	8.34
22 07 19 00-1185	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	137.81	8.47
22 07 19 00-1186	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	168.51	8.61
22 07 19 00-1187	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	217.02	8.75
22 07 19 00-1188	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	269.52	8.90
22 07 19 00-1189	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.66	3.89
22 07 19 00-1190	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	18.75	4.04
22 07 19 00-1191	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.32	4.10
22 07 19 00-1192	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.87	4.17
22 07 19 00-1193	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.55	4.27
22 07 19 00-1194	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.17	4.38
22 07 19 00-1195	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.27	4.53
22 07 19 00-1196	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.24	4.65
22 07 19 00-1197	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.97	4.78
22 07 19 00-1198	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.10	5.00
22 07 19 00-1199	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.29	5.25
22 07 19 00-1200	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	33.02	5.53
22 07 19 00-1201	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.53	5.84
22 07 19 00-1202	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	43.30	6.04
22 07 19 00-1203	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.71	6.18
22 07 19 00-1204	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	50.48	6.33
22 07 19 00-1205	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	58.64	6.57
22 07 19 00-1206	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	70.53	6.82
22 07 19 00-1207	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	76.64	7.10
22 07 19 00-1208	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	82.79	7.39
22 07 19 00-1209	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	90.28	7.73
22 07 19 00-1210	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	99.68	7.96
22 07 19 00-1211	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	105.64	8.21
22 07 19 00-1212	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	116.49	8.34
22 07 19 00-1213	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	127.51	8.47

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1214 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	148.87	8.61
22 07 19 00-1215 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	191.08	8.75
22 07 19 00-1216 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	212.38	8.90
22 07 19 00-1217 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	25.85	5.47
22 07 19 00-1218 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.85	5.58
22 07 19 00-1219 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	27.97	5.77
22 07 19 00-1220 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.21	5.97
22 07 19 00-1221 EA 2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	30.59	6.18
22 07 19 00-1222 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.99	6.41
22 07 19 00-1223 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.91	6.65
22 07 19 00-1224 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	35.96	6.91
22 07 19 00-1225 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	38.62	7.19
22 07 19 00-1226 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	42.25	7.51
22 07 19 00-1227 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	46.08	7.84
22 07 19 00-1228 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	52.92	8.34
22 07 19 00-1229 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	60.73	8.75
22 07 19 00-1230 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.42	8.90
22 07 19 00-1231 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	88.27	9.22
22 07 19 00-1232 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	95.27	9.73
22 07 19 00-1233 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	108.97	10.10
22 07 19 00-1234 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	122.87	10.50
22 07 19 00-1235 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	125.58	10.95
22 07 19 00-1236 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	135.59	11.18
22 07 19 00-1237 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	145.64	11.42
22 07 19 00-1238 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	155.81	11.67
22 07 19 00-1239 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	165.90	11.94
22 07 19 00-1240 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	176.13	12.21
22 07 19 00-1241 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	186.29	12.51
22 07 19 00-1242 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	201.25	12.81
22 07 19 00-1243 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	216.18	13.13
22 07 19 00-1244 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	234.19	13.47
22 07 19 00-1245 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1246 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	31.60	3.75
22 07 19 00-1247 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1248 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	36.57	3.89
22 07 19 00-1249 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	49.30	4.04
22 07 19 00-1250 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	53.61	4.21
22 07 19 00-1251 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	58.74	4.38
22 07 19 00-1252 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	65.98	4.57
22 07 19 00-1253 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	72.27	4.78
22 07 19 00-1254 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	87.10	5.25
22 07 19 00-1255 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	120.98	5.84
22 07 19 00-1256 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	132.59	6.57
22 07 19 00-1257 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	164.05	7.00
22 07 19 00-1258 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	226.55	7.73
22 07 19 00-1259 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	228.33	8.08
22 07 19 00-1260 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	299.90	8.34
22 07 19 00-1261 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	401.04	8.61
22 07 19 00-1262 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1263 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	29.77	3.75
22 07 19 00-1264 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1265 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	34.36	3.89
22 07 19 00-1266 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	45.68	4.04
22 07 19 00-1267 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	49.57	4.21
22 07 19 00-1268 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	54.31	4.38
22 07 19 00-1269 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	57.10	4.57
22 07 19 00-1270 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	66.39	4.78
22 07 19 00-1271 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	79.82	5.25
22 07 19 00-1272 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	110.26	5.84
22 07 19 00-1273 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	120.84	6.57
22 07 19 00-1274 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	149.10	7.00
22 07 19 00-1275 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	205.16	7.73
22 07 19 00-1276 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	258.99	8.08
22 07 19 00-1277 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	307.95	8.34
22 07 19 00-1278 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	358.56	8.61
22 07 19 00-1279 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1280 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	44.22	5.64
22 07 19 00-1281 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1282 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	50.65	5.84
22 07 19 00-1283 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	67.21	6.04
22 07 19 00-1284 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	72.91	6.26
22 07 19 00-1285 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	79.85	6.57
22 07 19 00-1286 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	84.07	6.82
22 07 19 00-1287 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	98.12	7.19
22 07 19 00-1288 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	107.75	7.84
22 07 19 00-1289 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	148.03	8.75
22 07 19 00-1290 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	161.40	9.73
22 07 19 00-1291 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	218.91	10.50
22 07 19 00-1292 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	299.95	11.42
22 07 19 00-1293 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	355.99	12.21
22 07 19 00-1294 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	418.44	12.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1295 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	457.13	12.81
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22 10 Plumbing Piping⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution^(22 10)

22 11 16 Domestic Water Piping^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.40	5.19
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.33	
		For ASTM 120, Deduct	-0.63	
		For Work In Restricted Working Space, Add	5.16	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	23.35	5.57
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.96	
		For ASTM 120, Deduct	-0.77	
		For Work In Restricted Working Space, Add	5.46	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	26.21	6.10
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	6.93	
		For ASTM 120, Deduct	-1.01	
		For Work In Restricted Working Space, Add	5.84	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	30.32	6.36
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	8.48	
		For ASTM 120, Deduct	-1.45	
		For Work In Restricted Working Space, Add	6.20	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	32.53	7.53
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	9.25	
		For ASTM 120, Deduct	-1.65	
		For Work In Restricted Working Space, Add	6.47	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	39.01	9.07
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	11.42	
		For ASTM 120, Deduct	-2.17	
		For Work In Restricted Working Space, Add	7.36	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	55.95	10.76
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	17.99	
		For ASTM 120, Deduct	-4.08	
		For Work In Restricted Working Space, Add	8.62	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	68.72	14.40
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	22.22	
		For ASTM 120, Deduct	-5.09	
		For Work In Restricted Working Space, Add	10.45	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	101.37	15.33
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	36.66	
		For ASTM 120, Deduct	-9.83	
		For Work In Restricted Working Space, Add	10.75	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	181.64	19.59
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	70.92	
		For ASTM 120, Deduct	-20.76	
		For Work In Restricted Working Space, Add	12.98	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	215.17	23.17
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	84.54	
		For ASTM 120, Deduct	-24.90	
		For Work In Restricted Working Space, Add	14.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings ^(22 11 16) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe ^(22 11 16 00-0013) Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 9.97	9.97	5.19
			<i>For Schedule 80 Pipe, Add</i> 1.80		
			<i>For ASTM 120, Deduct</i> -0.32		
			<i>For Work In Restricted Working Space, Add</i> 2.36		
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 11.16	11.16	5.57
			<i>For Schedule 80 Pipe, Add</i> 2.18		
			<i>For ASTM 120, Deduct</i> -0.42		
			<i>For Work In Restricted Working Space, Add</i> 2.51		
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 13.21	13.21	6.10
			<i>For Schedule 80 Pipe, Add</i> 2.90		
			<i>For ASTM 120, Deduct</i> -0.62		
			<i>For Work In Restricted Working Space, Add</i> 2.72		
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 15.23	15.23	6.36
			<i>For Schedule 80 Pipe, Add</i> 3.66		
			<i>For ASTM 120, Deduct</i> -0.84		
			<i>For Work In Restricted Working Space, Add</i> 2.88		
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 18.00	18.00	7.53
			<i>For Schedule 80 Pipe, Add</i> 4.35		
			<i>For ASTM 120, Deduct</i> -1.01		
			<i>For Work In Restricted Working Space, Add</i> 3.38		
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 22.67	22.67	9.07
			<i>For Schedule 80 Pipe, Add</i> 5.69		
			<i>For ASTM 120, Deduct</i> -1.35		
			<i>For Work In Restricted Working Space, Add</i> 4.10		
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 30.52	30.52	10.76
			<i>For Schedule 80 Pipe, Add</i> 8.49		
			<i>For ASTM 120, Deduct</i> -2.15		
			<i>For Work In Restricted Working Space, Add</i> 4.86		
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 40.34	40.34	14.40
			<i>For Schedule 80 Pipe, Add</i> 11.15		
			<i>For ASTM 120, Deduct</i> -2.81		
			<i>For Work In Restricted Working Space, Add</i> 6.48		
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 49.72	49.72	15.33
			<i>For Schedule 80 Pipe, Add</i> 15.10		
			<i>For ASTM 120, Deduct</i> -4.00		
			<i>For Work In Restricted Working Space, Add</i> 6.92		
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 65.10	65.10	19.59
			<i>For Schedule 80 Pipe, Add</i> 20.10		
			<i>For ASTM 120, Deduct</i> -5.36		
			<i>For Work In Restricted Working Space, Add</i> 8.80		
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 81.08	81.08	23.17
			<i>For Schedule 80 Pipe, Add</i> 25.73		
			<i>For ASTM 120, Deduct</i> -6.96		
			<i>For Work In Restricted Working Space, Add</i> 10.41		
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe 92.03	92.03	28.01
			<i>For Schedule 80 Pipe, Add</i> 28.24		
			<i>For ASTM 120, Deduct</i> -7.52		
			<i>For Work In Restricted Working Space, Add</i> 12.58		
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe ^(22 11 16 00-0013) Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... 11.83	11.83	5.19
			<i>For Schedule 80 Pipe, Add</i> 2.69		
			<i>For ASTM 120, Deduct</i> -0.60		
			<i>For Work In Restricted Working Space, Add</i> 2.36		
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... 13.13	13.13	5.57
			<i>For Schedule 80 Pipe, Add</i> 3.12		
			<i>For ASTM 120, Deduct</i> -0.71		
			<i>For Work In Restricted Working Space, Add</i> 2.51		
22 11 16 00-0030	LF		1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... 14.59	14.59	6.10
			<i>For Schedule 80 Pipe, Add</i> 3.56		
			<i>For ASTM 120, Deduct</i> -0.83		
			<i>For Work In Restricted Working Space, Add</i> 2.72		
22 11 16 00-0031	LF		1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe 16.56	16.56	6.36
			<i>For Schedule 80 Pipe, Add</i> 4.30		
			<i>For ASTM 120, Deduct</i> -1.04		
			<i>For Work In Restricted Working Space, Add</i> 2.88		
22 11 16 00-0032	LF		1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe 19.22	19.22	7.53
			<i>For Schedule 80 Pipe, Add</i> 4.94		
			<i>For ASTM 120, Deduct</i> -1.19		
			<i>For Work In Restricted Working Space, Add</i> 3.38		
22 11 16 00-0033	LF		2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe..... 22.69	22.69	9.07
			<i>For Schedule 80 Pipe, Add</i> 5.70		
			<i>For ASTM 120, Deduct</i> -1.36		
			<i>For Work In Restricted Working Space, Add</i> 4.10		
22 11 16 00-0034	LF		2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe 31.34	31.34	10.76
			<i>For Schedule 80 Pipe, Add</i> 8.88		
			<i>For ASTM 120, Deduct</i> -2.27		
			<i>For Work In Restricted Working Space, Add</i> 4.86		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0035	LF			3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.11 11.04 -2.78 6.48	14.40
22 11 16 00-0036	LF			4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	49.51 15.00 -3.97 6.92	15.33
22 11 16 00-0037	LF			5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	63.86 19.50 -5.18 8.80	19.59
22 11 16 00-0038	LF			6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	78.86 24.67 -6.62 10.41	23.17
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)						
22 11 16 00-0040	EA			1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.02 20.57 -0.82 10.37	23.08
22 11 16 00-0041	EA			3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	45.39 25.03 -1.00 11.61	25.81
22 11 16 00-0042	EA			1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.59 44.65 -1.86 12.97	28.78
22 11 16 00-0043	EA			1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	68.47 69.37 -2.93 14.68	32.68
22 11 16 00-0044	EA			1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.69 90.04 -3.83 16.55	36.83
22 11 16 00-0045	EA			2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	111.87 146.26 -6.27 21.03	46.81
22 11 16 00-0046	EA			2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	213.08 377.98 -16.40 31.12	69.25
22 11 16 00-0047	EA			3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	316.76 621.07 -27.04 40.95	91.03
22 11 16 00-0048	EA			4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	452.43 1,089.07 -47.69 40.35	89.68
22 11 16 00-0049	EA			5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,513.37 4,676.72 -205.95 42.10	93.60
22 11 16 00-0050	EA			6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,412.51 4,312.49 -189.87 44.02	97.87
22 11 16 00-0051	EA			8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,680.41 5,201.31 -229.06 46.00	102.27
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)						
22 11 16 00-0053	EA			3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	48.26 -1.74 11.00	24.38
22 11 16 00-0054	EA			1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.87 -2.24 12.29	27.36
22 11 16 00-0055	EA			1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.71 -2.37 11.67	25.94
22 11 16 00-0056	EA			1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	71.08 -3.75 13.82	30.73
22 11 16 00-0057	EA			1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.83 -4.50 13.14	29.18

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0058 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	73.56	27.88
For ASTM 120, Deduct	-4.77	
For Work In Restricted Working Space, Add	12.53	
22 11 16 00-0059 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	91.99	34.75
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	15.62	
22 11 16 00-0060 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	89.14	32.81
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	14.76	
22 11 16 00-0061 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	86.88	31.25
For ASTM 120, Deduct	-5.99	
For Work In Restricted Working Space, Add	14.08	
22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	109.30	41.75
For ASTM 120, Deduct	-7.00	
For Work In Restricted Working Space, Add	18.79	
22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	113.00	39.68
For ASTM 120, Deduct	-8.02	
For Work In Restricted Working Space, Add	17.85	
22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	112.15	37.74
For ASTM 120, Deduct	-8.33	
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	96.50	36.31
For ASTM 120, Deduct	-6.32	
For Work In Restricted Working Space, Add	16.32	
22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	245.07	57.97
For ASTM 120, Deduct	-23.72	
For Work In Restricted Working Space, Add	26.08	
22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	255.66	53.04
For ASTM 120, Deduct	-26.43	
For Work In Restricted Working Space, Add	23.84	
22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	407.56	80.14
For ASTM 120, Deduct	-43.12	
For Work In Restricted Working Space, Add	36.04	
22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	352.95	68.85
For ASTM 120, Deduct	-37.45	
For Work In Restricted Working Space, Add	30.99	
22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	778.35	85.30
For ASTM 120, Deduct	-97.56	
For Work In Restricted Working Space, Add	38.38	
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)		
22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	40.51	23.08
For 300 LB Rating, Add	22.24	
For ASTM 120, Deduct	-0.89	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	47.23	25.81
For 300 LB Rating, Add	31.29	
For ASTM 120, Deduct	-1.28	
For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	52.84	28.78
For 300 LB Rating, Add	35.30	
For ASTM 120, Deduct	-1.44	
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	66.90	32.68
For 300 LB Rating, Add	64.03	
For ASTM 120, Deduct	-2.70	
For Work In Restricted Working Space, Add	14.68	
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	76.29	36.83
For 300 LB Rating, Add	75.08	
For ASTM 120, Deduct	-3.17	
For Work In Restricted Working Space, Add	16.55	
22 11 16 00-0077 EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	101.33	46.81
For 300 LB Rating, Add	110.42	
For ASTM 120, Deduct	-4.69	
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0078 EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	212.44	69.25
For 300 LB Rating, Add	375.80	
For ASTM 120, Deduct	-16.31	
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0079 EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	294.59	91.03
For 300 LB Rating, Add	545.70	
For ASTM 120, Deduct	-23.71	
For Work In Restricted Working Space, Add	40.95	
22 11 16 00-0080 EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	399.52	89.68
For 300 LB Rating, Add	909.17	
For ASTM 120, Deduct	-39.75	
For Work In Restricted Working Space, Add	40.35	
22 11 16 00-0081 EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,211.28	93.60
For 300 LB Rating, Add	3,649.62	
For ASTM 120, Deduct	-160.64	
For Work In Restricted Working Space, Add	42.10	
22 11 16 00-0082 EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,438.03	97.87
For 300 LB Rating, Add	4,399.26	
For ASTM 120, Deduct	-193.70	
For Work In Restricted Working Space, Add	44.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0083	EA			8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,708.97 5,298.41 -233.35 46.00	102.27
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)						
22 11 16 00-0085	EA			1/2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	49.92 25.37 -1.01 12.97	28.78
22 11 16 00-0086	EA			3/4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	60.93 40.60 -1.66 14.96	33.33
22 11 16 00-0087	EA			1", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	76.82 64.33 -2.68 17.68	39.30
22 11 16 00-0088	EA			1-1/4", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.47 100.70 -4.26 21.03	46.81
22 11 16 00-0089	EA			1-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	118.93 124.94 -5.29 25.10	55.76
22 11 16 00-0090	EA			2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	161.07 201.15 -8.60 31.12	69.25
22 11 16 00-0091	EA			2-1/2", 150 LB, Galvanized Malleable Iron Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	274.17 555.56 -24.21 33.83	75.21
22 11 16 00-0092	EA			3", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	325.78 651.74 -28.39 40.95	91.03
22 11 16 00-0093	EA			4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	617.67 1,532.65 -67.17 50.97	113.32
22 11 16 00-0094	EA			5", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,609.28 4,797.74 -211.13 60.52	134.53
22 11 16 00-0095	EA			6", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,827.04 5,441.87 -239.47 69.17	153.78
22 11 16 00-0096	EA			8", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,173.58 6,466.09 -284.54 83.00	182.60
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)						
22 11 16 00-0098	EA			1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.81 55.60 -2.34 12.97	28.78
22 11 16 00-0099	EA			3/4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.24 55.25 -2.31 14.96	33.33
22 11 16 00-0100	EA			1", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.54 76.98 -3.24 17.68	39.30
22 11 16 00-0101	EA			1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	103.59 118.11 -5.03 21.03	46.81
22 11 16 00-0102	EA			1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	125.03 145.68 -6.21 25.10	55.76
22 11 16 00-0103	EA			2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	164.14 211.58 -9.06 31.12	69.25

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	326.44	75.47
			<i>For 300 LB Rating, Add</i>	732.11	
			<i>For ASTM 120, Deduct</i>	-32.00	
			<i>For Work In Restricted Working Space, Add</i>	33.93	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	415.34	92.46
			<i>For 300 LB Rating, Add</i>	949.03	
			<i>For ASTM 120, Deduct</i>	-41.50	
			<i>For Work In Restricted Working Space, Add</i>	41.60	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	971.94	113.32
			<i>For 300 LB Rating, Add</i>	2,737.16	
			<i>For ASTM 120, Deduct</i>	-120.31	
			<i>For Work In Restricted Working Space, Add</i>	50.97	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,154.97	134.53
			<i>For 300 LB Rating, Add</i>	6,653.09	
			<i>For ASTM 120, Deduct</i>	-292.98	
			<i>For Work In Restricted Working Space, Add</i>	60.52	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,340.62	153.78
			<i>For 300 LB Rating, Add</i>	7,188.04	
			<i>For ASTM 120, Deduct</i>	-316.51	
			<i>For Work In Restricted Working Space, Add</i>	69.17	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,809.32	176.59
			<i>For 300 LB Rating, Add</i>	8,666.12	
			<i>For ASTM 120, Deduct</i>	-381.63	
			<i>For Work In Restricted Working Space, Add</i>	79.54	
22 11 16 00-0110			Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	40.57	23.08
			<i>For 300 LB Rating, Add</i>	22.44	
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	45.61	25.81
			<i>For 300 LB Rating, Add</i>	25.78	
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-0113	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	54.53	28.78
			<i>For 300 LB Rating, Add</i>	41.05	
			<i>For ASTM 120, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0114	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	64.88	32.68
			<i>For 300 LB Rating, Add</i>	57.17	
			<i>For ASTM 120, Deduct</i>	-2.39	
			<i>For Work In Restricted Working Space, Add</i>	14.68	
22 11 16 00-0115	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	73.31	36.83
			<i>For 300 LB Rating, Add</i>	64.95	
			<i>For ASTM 120, Deduct</i>	-2.72	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 11 16 00-0116	EA		2", 150 LB, Galvanized Malleable Iron Coupling.....	96.60	46.81
			<i>For 300 LB Rating, Add</i>	94.34	
			<i>For ASTM 120, Deduct</i>	-3.98	
			<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0117	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	184.89	69.25
			<i>For 300 LB Rating, Add</i>	282.13	
			<i>For ASTM 120, Deduct</i>	-12.17	
			<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0118	EA		3", 150 LB, Galvanized Malleable Iron Coupling.....	244.96	91.03
			<i>For 300 LB Rating, Add</i>	376.95	
			<i>For ASTM 120, Deduct</i>	-16.27	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
22 11 16 00-0119	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	364.84	89.68
			<i>For 300 LB Rating, Add</i>	791.26	
			<i>For ASTM 120, Deduct</i>	-34.55	
			<i>For Work In Restricted Working Space, Add</i>	40.35	
22 11 16 00-0120	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	788.95	93.60
			<i>For 300 LB Rating, Add</i>	2,213.69	
			<i>For ASTM 120, Deduct</i>	-97.29	
			<i>For Work In Restricted Working Space, Add</i>	42.10	
22 11 16 00-0121	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	885.66	97.87
			<i>For 300 LB Rating, Add</i>	2,521.20	
			<i>For ASTM 120, Deduct</i>	-110.84	
			<i>For Work In Restricted Working Space, Add</i>	44.02	
22 11 16 00-0122	EA		8", 150 LB, Galvanized Malleable Iron Coupling.....	1,043.90	102.27
			<i>For 300 LB Rating, Add</i>	3,037.17	
			<i>For ASTM 120, Deduct</i>	-133.59	
			<i>For Work In Restricted Working Space, Add</i>	46.00	
22 11 16 00-0123			Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	41.85	23.08
			<i>For 300 LB Rating, Add</i>	26.79	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	10.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0125	EA			3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	46.48	25.81
				<i>For 300 LB Rating, Add</i>	28.74	
				<i>For ASTM 120, Deduct</i>	-1.17	
				<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-0126	EA			1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	56.17	28.78
				<i>For 300 LB Rating, Add</i>	46.62	
				<i>For ASTM 120, Deduct</i>	-1.94	
				<i>For Work In Restricted Working Space, Add</i>	12.97	
22 11 16 00-0127	EA			1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling	65.67	32.68
				<i>For 300 LB Rating, Add</i>	59.85	
				<i>For ASTM 120, Deduct</i>	-2.51	
				<i>For Work In Restricted Working Space, Add</i>	14.68	
22 11 16 00-0128	EA			1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	76.77	36.83
				<i>For 300 LB Rating, Add</i>	76.72	
				<i>For ASTM 120, Deduct</i>	-3.24	
				<i>For Work In Restricted Working Space, Add</i>	16.55	
22 11 16 00-0129	EA			2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	99.54	46.81
				<i>For 300 LB Rating, Add</i>	104.34	
				<i>For ASTM 120, Deduct</i>	-4.42	
				<i>For Work In Restricted Working Space, Add</i>	21.03	
22 11 16 00-0130	EA			2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	185.92	69.25
				<i>For 300 LB Rating, Add</i>	285.64	
				<i>For ASTM 120, Deduct</i>	-12.33	
				<i>For Work In Restricted Working Space, Add</i>	31.12	
22 11 16 00-0131	EA			3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	241.89	91.03
				<i>For 300 LB Rating, Add</i>	366.52	
				<i>For ASTM 120, Deduct</i>	-15.81	
				<i>For Work In Restricted Working Space, Add</i>	40.95	
22 11 16 00-0132	EA			4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	370.77	89.68
				<i>For 300 LB Rating, Add</i>	811.42	
				<i>For ASTM 120, Deduct</i>	-35.44	
				<i>For Work In Restricted Working Space, Add</i>	40.35	
22 11 16 00-0133	EA			5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	823.09	93.60
				<i>For 300 LB Rating, Add</i>	2,329.77	
				<i>For ASTM 120, Deduct</i>	-102.41	
				<i>For Work In Restricted Working Space, Add</i>	42.10	
22 11 16 00-0134	EA			6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	924.55	97.87
				<i>For 300 LB Rating, Add</i>	2,653.43	
				<i>For ASTM 120, Deduct</i>	-116.67	
				<i>For Work In Restricted Working Space, Add</i>	44.02	
22 11 16 00-0135	EA			8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,091.12	102.27
				<i>For 300 LB Rating, Add</i>	3,197.72	
				<i>For ASTM 120, Deduct</i>	-140.67	
				<i>For Work In Restricted Working Space, Add</i>	46.00	
22 11 16 00-0136				Galvanized Malleable Iron Caps <small>(22 11 16 00-0013)</small>		
22 11 16 00-0137	EA			1/2", 150 LB, Galvanized Malleable Iron Cap	18.45	10.76
				<i>For 300 LB Rating, Add</i>	8.59	
				<i>For ASTM 120, Deduct</i>	-0.34	
				<i>For Work In Restricted Working Space, Add</i>	4.86	
22 11 16 00-0138	EA			3/4", 150 LB, Galvanized Malleable Iron Cap	20.39	11.54
				<i>For 300 LB Rating, Add</i>	11.58	
				<i>For ASTM 120, Deduct</i>	-0.47	
				<i>For Work In Restricted Working Space, Add</i>	5.19	
22 11 16 00-0139	EA			1", 150 LB, Galvanized Malleable Iron Cap	23.79	13.36
				<i>For 300 LB Rating, Add</i>	14.25	
				<i>For ASTM 120, Deduct</i>	-0.58	
				<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0140	EA			1-1/4", 150 LB, Galvanized Malleable Iron Cap	25.98	14.00
				<i>For 300 LB Rating, Add</i>	18.46	
				<i>For ASTM 120, Deduct</i>	-0.76	
				<i>For Work In Restricted Working Space, Add</i>	6.28	
22 11 16 00-0141	EA			1-1/2", 150 LB, Galvanized Malleable Iron Cap	25.66	14.00
				<i>For 300 LB Rating, Add</i>	17.37	
				<i>For ASTM 120, Deduct</i>	-0.71	
				<i>For Work In Restricted Working Space, Add</i>	6.28	
22 11 16 00-0142	EA			2", 150 LB, Galvanized Malleable Iron Cap	38.03	18.54
				<i>For 300 LB Rating, Add</i>	36.15	
				<i>For ASTM 120, Deduct</i>	-1.52	
				<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0143	EA			2-1/2", 150 LB, Galvanized Malleable Iron Cap	57.34	23.08
				<i>For 300 LB Rating, Add</i>	79.46	
				<i>For ASTM 120, Deduct</i>	-3.41	
				<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0144	EA			3", 150 LB, Galvanized Malleable Iron Cap	74.23	27.88
				<i>For 300 LB Rating, Add</i>	112.67	
				<i>For ASTM 120, Deduct</i>	-4.86	
				<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0145	EA			4", 150 LB, Galvanized Malleable Iron Cap	106.68	30.78
				<i>For 300 LB Rating, Add</i>	208.67	
				<i>For ASTM 120, Deduct</i>	-9.08	
				<i>For Work In Restricted Working Space, Add</i>	13.84	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap	258.69	38.50
For 300 LB Rating, Add	687.03	
For ASTM 120, Deduct	-30.16	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap	322.07	45.76
For 300 LB Rating, Add	865.65	
For ASTM 120, Deduct	-38.01	
For Work In Restricted Working Space, Add	20.60	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap	405.04	51.13
For 300 LB Rating, Add	1,121.09	
For ASTM 120, Deduct	-49.26	
For Work In Restricted Working Space, Add	23.00	
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union	59.55	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union	68.63	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union	83.51	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union	105.61	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union	126.70	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union	153.22	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union	325.01	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union	442.05	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union	76.42	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union	80.04	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union	96.33	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union	126.73	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union	148.86	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union	195.82	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union	395.37	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union	573.15	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union	781.53	132.34
For Work In Restricted Working Space, Add	59.56	
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union	81.05	28.78
For Work In Restricted Working Space, Add	12.97	
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union	90.89	33.33
For Work In Restricted Working Space, Add	14.96	
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union	113.35	39.30
For Work In Restricted Working Space, Add	17.68	
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union	145.97	46.81
For Work In Restricted Working Space, Add	21.03	
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union	175.03	55.76
For Work In Restricted Working Space, Add	25.10	
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union	213.41	69.25
For Work In Restricted Working Space, Add	31.12	
22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union	459.05	102.05
For Work In Restricted Working Space, Add	45.94	
22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union	718.88	134.22
For Work In Restricted Working Space, Add	60.45	
22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union	1,496.14	132.34
For Work In Restricted Working Space, Add	59.56	
22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple	20.84	12.31
For Schedule 80 Nipples, Add	2.64	
For ASTM 120, Deduct	-0.35	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple	20.40	12.31
For Schedule 80 Nipples, Add	2.14	
For ASTM 120, Deduct	-0.28	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple	20.80	12.31
For Schedule 80 Nipples, Add	2.60	
For ASTM 120, Deduct	-0.34	
For Work In Restricted Working Space, Add	5.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.08 3.57 -0.47 5.99	13.36
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	25.80 4.78 -0.63 6.48	14.40
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.53 5.61 -0.74 6.48	14.40
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.83 7.91 -1.04 8.37	18.54
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.23 23.54 -3.10 10.37	23.08
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	66.58 28.22 -3.71 12.55	27.88
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	83.21 42.28 -5.56 13.84	30.78
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.18 3.03 -0.40 5.56	12.31
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.50 2.26 -0.30 5.56	12.31
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.00 2.83 -0.37 5.56	12.31
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.18 3.03 -0.40 5.56	12.31
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.50 2.26 -0.30 5.56	12.31
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.00 2.83 -0.37 5.56	12.31
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.64 4.21 -0.55 5.99	13.36
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.11 5.13 -0.68 6.48	14.40
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.89 6.02 -0.79 6.48	14.40
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.07 4.05 -0.53 5.56	12.31
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.84 2.64 -0.35 5.56	12.31
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.26 3.12 -0.41 5.56	12.31
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.94 4.55 -0.60 5.99	13.36
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.55 5.63 -0.74 6.48	14.40

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0201	EA		1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0202	EA		2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	35.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	8.89	
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0203	EA		3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	22.07	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.05	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0204	EA		1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	20.84	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.64	
			<i>For ASTM 120, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0205	EA		3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	21.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.12	
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0206	EA		1" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	23.94	13.36
			<i>For Schedule 80 Nipples, Add</i>	4.55	
			<i>For ASTM 120, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0207	EA		1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	26.55	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.63	
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0208	EA		1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0209	EA		2" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	35.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	8.89	
			<i>For ASTM 120, Deduct</i>	-1.17	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0210	EA		2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	56.02	23.08
			<i>For Schedule 80 Nipples, Add</i>	24.44	
			<i>For ASTM 120, Deduct</i>	-3.22	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0211	EA		3" x 3" Long, Schedule 40 Galvanized Steel Nipple.....	69.98	27.88
			<i>For Schedule 80 Nipples, Add</i>	32.09	
			<i>For ASTM 120, Deduct</i>	-4.22	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0212	EA		3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0213	EA		1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.38	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.26	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.07	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.05	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.75	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.47	
			<i>For ASTM 120, Deduct</i>	-0.72	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.48	
			<i>For ASTM 120, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	37.37	18.54
			<i>For Schedule 80 Nipples, Add</i>	10.81	
			<i>For ASTM 120, Deduct</i>	-1.42	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
			<i>For Schedule 80 Nipples, Add</i>	28.37	
			<i>For ASTM 120, Deduct</i>	-3.73	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
			<i>For Schedule 80 Nipples, Add</i>	37.65	
			<i>For ASTM 120, Deduct</i>	-4.95	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.74	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.81	
			<i>For ASTM 120, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	5.56	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0222 EA 1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	21.38	12.31
For Schedule 80 Nipples, Add	3.26	
For ASTM 120, Deduct	-0.43	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0223 EA 3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	22.74	12.31
For Schedule 80 Nipples, Add	4.81	
For ASTM 120, Deduct	-0.63	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0224 EA 1" x 4" Long, Schedule 40 Galvanized Steel Nipple	24.75	13.36
For Schedule 80 Nipples, Add	5.47	
For ASTM 120, Deduct	-0.72	
For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0225 EA 1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	27.50	14.40
For Schedule 80 Nipples, Add	6.71	
For ASTM 120, Deduct	-0.88	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0226 EA 1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.40
For Schedule 80 Nipples, Add	8.48	
For ASTM 120, Deduct	-1.12	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0227 EA 2" x 4" Long, Schedule 40 Galvanized Steel Nipple	37.45	18.54
For Schedule 80 Nipples, Add	10.90	
For ASTM 120, Deduct	-1.43	
For Work In Restricted Working Space, Add	8.37	
22 11 16 00-0228 EA 2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	59.47	23.08
For Schedule 80 Nipples, Add	28.37	
For ASTM 120, Deduct	-3.73	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0229 EA 3" x 4" Long, Schedule 40 Galvanized Steel Nipple	74.86	27.88
For Schedule 80 Nipples, Add	37.65	
For ASTM 120, Deduct	-4.95	
For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0230 EA 4" x 4" Long, Schedule 40 Galvanized Steel Nipple	90.47	30.78
For Schedule 80 Nipples, Add	50.56	
For ASTM 120, Deduct	-6.65	
For Work In Restricted Working Space, Add	13.84	
22 11 16 00-0231 EA 3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
For Schedule 80 Nipples, Add	6.62	
For ASTM 120, Deduct	-0.87	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0232 EA 1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
For Schedule 80 Nipples, Add	3.93	
For ASTM 120, Deduct	-0.52	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0233 EA 3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.76	12.31
For Schedule 80 Nipples, Add	4.83	
For ASTM 120, Deduct	-0.64	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0234 EA 1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	25.84	13.36
For Schedule 80 Nipples, Add	6.71	
For ASTM 120, Deduct	-0.88	
For Work In Restricted Working Space, Add	5.99	
22 11 16 00-0235 EA 1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
For Schedule 80 Nipples, Add	8.30	
For ASTM 120, Deduct	-1.09	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0236 EA 1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
For Schedule 80 Nipples, Add	10.25	
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	6.48	
22 11 16 00-0237 EA 2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	39.99	18.54
For Schedule 80 Nipples, Add	13.79	
For ASTM 120, Deduct	-1.82	
For Work In Restricted Working Space, Add	8.37	
22 11 16 00-0238 EA 2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
For Schedule 80 Nipples, Add	31.64	
For ASTM 120, Deduct	-4.16	
For Work In Restricted Working Space, Add	10.37	
22 11 16 00-0239 EA 3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	80.33	27.88
For Schedule 80 Nipples, Add	43.89	
For ASTM 120, Deduct	-5.78	
For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0240 EA 4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	95.85	30.78
For Schedule 80 Nipples, Add	56.69	
For ASTM 120, Deduct	-7.46	
For Work In Restricted Working Space, Add	13.84	
22 11 16 00-0241 EA 3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.33	12.31
For Schedule 80 Nipples, Add	6.62	
For ASTM 120, Deduct	-0.87	
For Work In Restricted Working Space, Add	5.56	
22 11 16 00-0242 EA 1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	21.97	12.31
For Schedule 80 Nipples, Add	3.93	
For ASTM 120, Deduct	-0.52	
For Work In Restricted Working Space, Add	5.56	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	22.76	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.83	
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	25.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.71	
			<i>For ASTM 120, Deduct</i>	-0.88	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	28.89	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.30	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	30.60	14.40
			<i>For Schedule 80 Nipples, Add</i>	10.25	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	39.99	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.79	
			<i>For ASTM 120, Deduct</i>	-1.82	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	62.33	23.08
			<i>For Schedule 80 Nipples, Add</i>	31.64	
			<i>For ASTM 120, Deduct</i>	-4.16	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	80.33	27.88
			<i>For Schedule 80 Nipples, Add</i>	43.89	
			<i>For ASTM 120, Deduct</i>	-5.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	95.85	30.78
			<i>For Schedule 80 Nipples, Add</i>	56.69	
			<i>For ASTM 120, Deduct</i>	-7.46	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	24.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.35	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.43	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.46	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	23.60	12.31
			<i>For Schedule 80 Nipples, Add</i>	5.79	
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	26.63	13.36
			<i>For Schedule 80 Nipples, Add</i>	7.62	
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	30.06	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.63	
			<i>For ASTM 120, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	31.73	14.40
			<i>For Schedule 80 Nipples, Add</i>	11.54	
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	41.95	18.54
			<i>For Schedule 80 Nipples, Add</i>	16.03	
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	65.07	23.08
			<i>For Schedule 80 Nipples, Add</i>	34.76	
			<i>For ASTM 120, Deduct</i>	-4.57	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	82.55	27.88
			<i>For Schedule 80 Nipples, Add</i>	46.42	
			<i>For ASTM 120, Deduct</i>	-6.11	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	101.10	30.78
			<i>For Schedule 80 Nipples, Add</i>	62.68	
			<i>For ASTM 120, Deduct</i>	-8.25	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	44.31	12.31
			<i>For Schedule 80 Nipples, Add</i>	29.40	
			<i>For ASTM 120, Deduct</i>	-3.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	25.42	12.31
			<i>For Schedule 80 Nipples, Add</i>	7.87	
			<i>For ASTM 120, Deduct</i>	-1.04	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	27.33	12.31
			<i>For Schedule 80 Nipples, Add</i>	10.04	
			<i>For ASTM 120, Deduct</i>	-1.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.12 12.73 -1.68 5.99	13.36
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	35.30 15.61 -2.05 6.48	14.40
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.32 17.91 -2.36 6.48	14.40
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.80 26.12 -3.44 8.37	18.54
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	73.83 44.75 -5.89 10.37	23.08
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	96.69 62.54 -8.23 12.55	27.88
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	111.73 74.80 -9.84 13.84	30.78
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.82 14.02 -1.85 5.56	12.31
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.71 9.34 -1.23 5.56	12.31
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.30 11.15 -1.47 5.56	12.31
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.72 14.56 -1.92 5.99	13.36
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.99 18.67 -2.46 6.48	14.40
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.92 20.87 -2.75 6.48	14.40
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.69 30.55 -4.02 8.37	18.54
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	79.31 50.99 -6.71 10.37	23.08
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	104.41 71.34 -9.39 12.55	27.88
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	122.15 86.67 -11.40 13.84	30.78
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	32.15 15.54 -2.04 5.56	12.31
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.84 10.62 -1.40 5.56	12.31
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.49 12.51 -1.65 5.56	12.31
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.81 16.94 -2.23 5.99	13.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0285	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	41.27	14.40
			<i>For Schedule 80 Nipples, Add</i>	22.41	
			<i>For ASTM 120, Deduct</i>	-2.95	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0286	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	42.56	14.40
			<i>For Schedule 80 Nipples, Add</i>	23.88	
			<i>For ASTM 120, Deduct</i>	-3.14	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
22 11 16 00-0287	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	58.65	18.54
			<i>For Schedule 80 Nipples, Add</i>	35.07	
			<i>For ASTM 120, Deduct</i>	-4.61	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
22 11 16 00-0288	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	84.64	23.08
			<i>For Schedule 80 Nipples, Add</i>	57.07	
			<i>For ASTM 120, Deduct</i>	-7.51	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
22 11 16 00-0289	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	112.20	27.88
			<i>For Schedule 80 Nipples, Add</i>	80.22	
			<i>For ASTM 120, Deduct</i>	-10.56	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
22 11 16 00-0290	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	132.68	30.78
			<i>For Schedule 80 Nipples, Add</i>	98.68	
			<i>For ASTM 120, Deduct</i>	-12.98	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
22 11 16 00-0291			Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.33	9.21
			<i>For 300 LB Rating, Add</i>	19.53	
			<i>For Work In Restricted Working Space, Add</i>	4.15	
22 11 16 00-0293	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.98	10.37
			<i>For 300 LB Rating, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0294	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.32	11.54
			<i>For 300 LB Rating, Add</i>	21.57	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
22 11 16 00-0295	EA		1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	28.85	13.10
			<i>For 300 LB Rating, Add</i>	32.73	
			<i>For Work In Restricted Working Space, Add</i>	5.87	
22 11 16 00-0296	EA		1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	34.57	14.66
			<i>For 300 LB Rating, Add</i>	43.82	
			<i>For Work In Restricted Working Space, Add</i>	6.62	
22 11 16 00-0297	EA		2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	43.94	18.67
			<i>For 300 LB Rating, Add</i>	55.74	
			<i>For Work In Restricted Working Space, Add</i>	8.41	
22 11 16 00-0298	EA		2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	72.51	27.62
			<i>For 300 LB Rating, Add</i>	107.92	
			<i>For Work In Restricted Working Space, Add</i>	12.45	
22 11 16 00-0299	EA		3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	98.61	36.44
			<i>For 300 LB Rating, Add</i>	152.88	
			<i>For Work In Restricted Working Space, Add</i>	16.38	
22 11 16 00-0300	EA		4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	145.14	35.85
			<i>For 300 LB Rating, Add</i>	313.78	
			<i>For Work In Restricted Working Space, Add</i>	16.14	
22 11 16 00-0301	EA		5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	223.72	37.46
			<i>For 300 LB Rating, Add</i>	573.14	
			<i>For Work In Restricted Working Space, Add</i>	16.84	
22 11 16 00-0302	EA		6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	239.86	39.07
			<i>For 300 LB Rating, Add</i>	619.50	
			<i>For Work In Restricted Working Space, Add</i>	17.61	
22 11 16 00-0303			Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	49.81	24.38
			<i>For Work In Restricted Working Space, Add</i>	11.00	
22 11 16 00-0305	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	54.64	25.94
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0306	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	55.88	27.36
			<i>For Work In Restricted Working Space, Add</i>	12.29	
22 11 16 00-0307	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	63.79	27.88
			<i>For Work In Restricted Working Space, Add</i>	12.53	
22 11 16 00-0308	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	63.85	29.18
			<i>For Work In Restricted Working Space, Add</i>	13.14	
22 11 16 00-0309	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	66.12	30.73
			<i>For Work In Restricted Working Space, Add</i>	13.82	
22 11 16 00-0310	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	74.01	29.95
			<i>For Work In Restricted Working Space, Add</i>	13.46	
22 11 16 00-0311	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.07	31.25
			<i>For Work In Restricted Working Space, Add</i>	14.08	
22 11 16 00-0312	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	75.47	32.81
			<i>For Work In Restricted Working Space, Add</i>	14.76	
22 11 16 00-0313	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.29	34.75
			<i>For Work In Restricted Working Space, Add</i>	15.62	
22 11 16 00-0314	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	88.72	34.88
			<i>For Work In Restricted Working Space, Add</i>	15.70	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0315	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.25 16.32	36.31
	22 11 16 00-0316	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.65 17.00	37.74
	22 11 16 00-0317	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	91.51 17.85	39.68
	22 11 16 00-0318	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	90.71 18.79	41.75
	22 11 16 00-0319	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.87 21.37	47.47
	22 11 16 00-0320	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	126.12 22.04	49.02
	22 11 16 00-0321	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.98 22.90	50.84
	22 11 16 00-0322	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.14 23.84	53.04
	22 11 16 00-0323	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	132.70 26.08	57.97
	22 11 16 00-0324	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.10 26.28	58.35
	22 11 16 00-0325	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	159.35 26.96	59.91
	22 11 16 00-0326	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	162.21 27.82	61.85
	22 11 16 00-0327	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.98 28.76	63.93
	22 11 16 00-0328	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	165.07 30.99	68.85
	22 11 16 00-0329	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	185.48 36.04	80.14
	22 11 16 00-0330	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	230.10 25.34	56.26
	22 11 16 00-0331	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	232.10 25.94	57.64
	22 11 16 00-0332	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	234.64 26.70	59.37
	22 11 16 00-0333	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	237.41 27.53	61.22
	22 11 16 00-0334	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	226.89 29.52	65.60
	22 11 16 00-0335	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	259.00 34.01	75.62
	22 11 16 00-0336	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	263.93 38.38	85.30
	22 11 16 00-0337			Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small> Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.		
	22 11 16 00-0338	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	76.90	47.39
	22 11 16 00-0339	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.12	51.87
	22 11 16 00-0340	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange.....	96.11	58.61
	22 11 16 00-0341	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	99.76	60.69
	22 11 16 00-0342	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	108.56	66.01
	22 11 16 00-0343	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange.....	115.78	68.85
	22 11 16 00-0344			Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
	22 11 16 00-0345	EA		3/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	127.00 23.34	51.87
	22 11 16 00-0346	EA		1", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	125.99 26.37	58.61
	22 11 16 00-0347	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	111.12 27.30	60.69
	22 11 16 00-0348	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	143.73 29.70	66.01
	22 11 16 00-0349	EA		2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	142.65 30.99	68.85
	22 11 16 00-0350	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	165.52 35.85	79.75
	22 11 16 00-0351	EA		3", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	275.92 45.49	101.15
	22 11 16 00-0352	EA		4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	353.68 55.32	123.01
	22 11 16 00-0353	EA		5", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	485.28 65.86	146.41
	22 11 16 00-0354	EA		6", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	536.23 75.65	168.20
	22 11 16 00-0355	EA		8", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	510.29 86.46	192.23
	22 11 16 00-0356			Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: For use when connecting pipe to an existing in-place system.		

22	Plumbing
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0357	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	42.25	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-0358	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	46.48	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0359	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.71	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0360	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	54.93	
			<i>For Work In Restricted Working Space, Add</i>	16.48	
22 11 16 00-0361	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	57.74	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0362	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	60.56	
			<i>For Work In Restricted Working Space, Add</i>	18.17	
22 11 16 00-0363	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	63.38	
			<i>For Work In Restricted Working Space, Add</i>	19.01	
22 11 16 00-0364	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	66.19	
			<i>For Work In Restricted Working Space, Add</i>	19.86	
22 11 16 00-0365	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	69.01	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0366	EA		6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	74.64	
			<i>For Work In Restricted Working Space, Add</i>	22.39	
22 11 16 00-0367	EA		8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	80.27	
			<i>For Work In Restricted Working Space, Add</i>	24.08	
22 11 16 00-0368			Copper Pipe And Fittings <small>(22 11 16)</small>		
			Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369			Copper Tube/Pipe <small>(22 11 16 00-0368)</small>		
			Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370			Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	5.95	3.17
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.10	
			<i>For Up To 20, Add</i>	0.63	
			<i>For >150, Deduct</i>	-0.12	
			<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0372	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	6.71	3.30
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.14	
			<i>For Up To 20, Add</i>	0.72	
			<i>For >150, Deduct</i>	-0.18	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0373	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	7.25	3.44
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.17	
			<i>For Up To 20, Add</i>	0.78	
			<i>For >150, Deduct</i>	-0.21	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0374	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	8.87	3.65
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.27	
			<i>For Up To 20, Add</i>	0.97	
			<i>For >150, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0375	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	11.06	4.10
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.39	
			<i>For Up To 20, Add</i>	1.23	
			<i>For >150, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0376	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	15.91	6.09
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
			<i>For Up To 20, Add</i>	1.76	
			<i>For >150, Deduct</i>	-0.68	
			<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0377	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	18.92	6.80
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.70	
			<i>For Up To 20, Add</i>	2.11	
			<i>For >150, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0378	LF		2" Hard Drawn Type L Copper Tube/Pipe.....	26.38	8.40
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.10	
			<i>For Up To 20, Add</i>	2.98	
			<i>For >150, Deduct</i>	-1.38	
			<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0379	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	49.57	9.87
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.59	
			<i>For Up To 20, Add</i>	5.46	
			<i>For >150, Deduct</i>	-1.99	
			<i>For Work In Restricted Working Space, Add</i>	8.90	
22 11 16 00-0380	LF		3" Hard Drawn Type L Copper Tube/Pipe.....	61.44	11.63
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.13	
			<i>For Up To 20, Add</i>	6.81	
			<i>For >150, Deduct</i>	-2.66	
			<i>For Work In Restricted Working Space, Add</i>	10.46	
22 11 16 00-0381	LF		4" Hard Drawn Type L Copper Tube/Pipe.....	86.72	13.12
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.79	
			<i>For Up To 20, Add</i>	9.86	
			<i>For >150, Deduct</i>	-4.74	
			<i>For Work In Restricted Working Space, Add</i>	11.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe	128.85	15.07
<i>For Medical/Oxygen Service Tubing, Add</i>	6.69	
<i>For Up To 20, Add</i>	14.98	
<i>For >150, Deduct</i>	-8.37	
<i>For Work In Restricted Working Space, Add</i>	13.56	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe	180.09	23.35
<i>For Medical/Oxygen Service Tubing, Add</i>	8.81	
<i>For Up To 20, Add</i>	20.76	
<i>For >150, Deduct</i>	-11.01	
<i>For Work In Restricted Working Space, Add</i>	21.01	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe	285.30	25.96
<i>For Medical/Oxygen Service Tubing, Add</i>	16.60	
<i>For Up To 20, Add</i>	33.72	
<i>For >150, Deduct</i>	-20.75	
<i>For Work In Restricted Working Space, Add</i>	23.36	
22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe	6.46	3.41
<i>For Medical/Oxygen Service Tubing, Add</i>	0.11	
<i>For Up To 20, Add</i>	0.68	
<i>For >150, Deduct</i>	-0.14	
<i>For Work In Restricted Working Space, Add</i>	1.53	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe	8.26	3.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.19	
<i>For Up To 20, Add</i>	0.89	
<i>For >150, Deduct</i>	-0.24	
<i>For Work In Restricted Working Space, Add</i>	1.75	
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe	8.53	3.69
<i>For Medical/Oxygen Service Tubing, Add</i>	0.23	
<i>For Up To 20, Add</i>	0.92	
<i>For >150, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.71	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe	11.72	3.91
<i>For Medical/Oxygen Service Tubing, Add</i>	0.41	
<i>For Up To 20, Add</i>	1.30	
<i>For >150, Deduct</i>	-0.51	
<i>For Work In Restricted Working Space, Add</i>	1.98	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe	13.82	4.40
<i>For Medical/Oxygen Service Tubing, Add</i>	0.54	
<i>For Up To 20, Add</i>	1.55	
<i>For >150, Deduct</i>	-0.68	
<i>For Work In Restricted Working Space, Add</i>	2.10	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe	18.43	6.55
<i>For Medical/Oxygen Service Tubing, Add</i>	0.68	
<i>For Up To 20, Add</i>	2.06	
<i>For >150, Deduct</i>	-0.85	
<i>For Work In Restricted Working Space, Add</i>	2.99	
22 11 16 00-0392 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe	22.05	7.31
<i>For Medical/Oxygen Service Tubing, Add</i>	0.87	
<i>For Up To 20, Add</i>	2.48	
<i>For >150, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	3.35	
22 11 16 00-0393 LF 2" Hard Drawn Type K Copper Tube/Pipe	30.39	9.03
<i>For Medical/Oxygen Service Tubing, Add</i>	1.34	
<i>For Up To 20, Add</i>	3.46	
<i>For >150, Deduct</i>	-1.67	
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 11 16 00-0394 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe	54.66	10.60
<i>For Medical/Oxygen Service Tubing, Add</i>	1.99	
<i>For Up To 20, Add</i>	6.09	
<i>For >150, Deduct</i>	-2.49	
<i>For Work In Restricted Working Space, Add</i>	8.93	
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	72.38	12.51
<i>For Medical/Oxygen Service Tubing, Add</i>	2.72	
<i>For Up To 20, Add</i>	8.09	
<i>For >150, Deduct</i>	-3.40	
<i>For Work In Restricted Working Space, Add</i>	11.51	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	104.10	14.10
<i>For Medical/Oxygen Service Tubing, Add</i>	4.85	
<i>For Up To 20, Add</i>	11.93	
<i>For >150, Deduct</i>	-6.06	
<i>For Work In Restricted Working Space, Add</i>	13.04	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	162.42	16.20
<i>For Medical/Oxygen Service Tubing, Add</i>	8.89	
<i>For Up To 20, Add</i>	19.02	
<i>For >150, Deduct</i>	-11.11	
<i>For Work In Restricted Working Space, Add</i>	15.40	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	242.14	25.10
<i>For Medical/Oxygen Service Tubing, Add</i>	12.75	
<i>For Up To 20, Add</i>	28.20	
<i>For >150, Deduct</i>	-15.94	
<i>For Work In Restricted Working Space, Add</i>	24.82	

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22 10	Plumbing Piping
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0399	LF		8" Hard Drawn Type K Copper Tube/Pipe	389.66	27.91
			<i>For Medical/Oxygen Service Tubing, Add</i>	23.88	
			<i>For Up To 20, Add</i>	46.43	
			<i>For >150, Deduct</i>	-29.85	
			<i>For Work In Restricted Working Space, Add</i>	27.35	
22 11 16 00-0400			Hard Drawn Type M Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0401	LF		3/8" Hard Drawn Type M Copper Tube/Pipe.....	5.65	2.98
			<i>For Up To 20, Add</i>	0.60	
			<i>For >150, Deduct</i>	-0.14	
			<i>For Work In Restricted Working Space, Add</i>	1.28	
22 11 16 00-0402	LF		1/2" Hard Drawn Type M Copper Tube/Pipe.....	5.96	3.10
			<i>For Up To 20, Add</i>	0.63	
			<i>For >150, Deduct</i>	-0.15	
			<i>For Work In Restricted Working Space, Add</i>	1.33	
22 11 16 00-0403	LF		3/4" Hard Drawn Type M Copper Tube/Pipe.....	7.20	3.28
			<i>For Up To 20, Add</i>	0.78	
			<i>For >150, Deduct</i>	-0.25	
			<i>For Work In Restricted Working Space, Add</i>	1.41	
22 11 16 00-0404	LF		1" Hard Drawn Type M Copper Tube/Pipe.....	9.10	3.69
			<i>For Up To 20, Add</i>	1.01	
			<i>For >150, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	1.58	
22 11 16 00-0405	LF		1-1/4" Hard Drawn Type M Copper Tube/Pipe	13.69	5.49
			<i>For Up To 20, Add</i>	1.51	
			<i>For >150, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	2.43	
22 11 16 00-0406	LF		1-1/2" Hard Drawn Type M Copper Tube/Pipe	17.01	6.12
			<i>For Up To 20, Add</i>	1.89	
			<i>For >150, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	2.79	
22 11 16 00-0407	LF		2" Hard Drawn Type M Copper Tube/Pipe.....	23.67	7.55
			<i>For Up To 20, Add</i>	2.67	
			<i>For >150, Deduct</i>	-1.21	
			<i>For Work In Restricted Working Space, Add</i>	3.46	
22 11 16 00-0408	LF		2-1/2" Hard Drawn Type M Copper Tube/Pipe	45.62	8.88
			<i>For Up To 20, Add</i>	5.00	
			<i>For >150, Deduct</i>	-1.76	
			<i>For Work In Restricted Working Space, Add</i>	8.40	
22 11 16 00-0409	LF		3" Hard Drawn Type M Copper Tube/Pipe.....	54.88	10.46
			<i>For Up To 20, Add</i>	6.07	
			<i>For >150, Deduct</i>	-2.34	
			<i>For Work In Restricted Working Space, Add</i>	9.44	
22 11 16 00-0410	LF		4" Hard Drawn Type M Copper Tube/Pipe.....	80.56	11.81
			<i>For Up To 20, Add</i>	9.15	
			<i>For >150, Deduct</i>	-4.39	
			<i>For Work In Restricted Working Space, Add</i>	11.01	
22 11 16 00-0411	LF		5" Hard Drawn Type M Copper Tube/Pipe.....	127.51	13.56
			<i>For Up To 20, Add</i>	14.88	
			<i>For >150, Deduct</i>	-8.51	
			<i>For Work In Restricted Working Space, Add</i>	12.71	
22 11 16 00-0412	LF		6" Hard Drawn Type M Copper Tube/Pipe.....	179.37	21.02
			<i>For Up To 20, Add</i>	20.78	
			<i>For >150, Deduct</i>	-11.37	
			<i>For Work In Restricted Working Space, Add</i>	19.69	
22 11 16 00-0413	LF		8" Hard Drawn Type M Copper Tube/Pipe.....	287.71	23.37
			<i>For Up To 20, Add</i>	34.16	
			<i>For >150, Deduct</i>	-21.55	
			<i>For Work In Restricted Working Space, Add</i>	21.66	
22 11 16 00-0414			Soft Drawn Type L Copper Tube <small>(22 11 16 00-0369)</small>		
22 11 16 00-0415	LF		1/4" Soft Drawn Type L Copper Tube	6.30	3.17
			<i>For Up To 20, Add</i>	0.67	
			<i>For >150, Deduct</i>	-0.16	
			<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0416	LF		3/8" Soft Drawn Type L Copper Tube	7.35	3.30
			<i>For Up To 20, Add</i>	0.80	
			<i>For >150, Deduct</i>	-0.24	
			<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0417	LF		1/2" Soft Drawn Type L Copper Tube	8.38	3.44
			<i>For Up To 20, Add</i>	0.92	
			<i>For >150, Deduct</i>	-0.32	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0418	LF		5/8" Soft Drawn Type L Copper Tube	9.46	3.55
			<i>For Up To 20, Add</i>	1.05	
			<i>For >150, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	1.60	
22 11 16 00-0419	LF		3/4" Soft Drawn Type L Copper Tube	10.41	3.65
			<i>For Up To 20, Add</i>	1.16	
			<i>For >150, Deduct</i>	-0.49	
			<i>For Work In Restricted Working Space, Add</i>	1.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube	12.98	4.10
<i>For Up To 20, Add</i>	1.47	
<i>For >150, Deduct</i>	-0.68	
<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube	18.13	6.09
<i>For Up To 20, Add</i>	2.04	
<i>For >150, Deduct</i>	-0.90	
<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube	22.40	6.80
<i>For Up To 20, Add</i>	2.55	
<i>For >150, Deduct</i>	-1.22	
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube	31.98	8.40
<i>For Up To 20, Add</i>	3.68	
<i>For >150, Deduct</i>	-1.94	
<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube	6.45	3.17
<i>For Up To 20, Add</i>	0.69	
<i>For >150, Deduct</i>	-0.17	
<i>For Work In Restricted Working Space, Add</i>	1.43	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube	7.85	3.30
<i>For Up To 20, Add</i>	0.86	
<i>For >150, Deduct</i>	-0.29	
<i>For Work In Restricted Working Space, Add</i>	1.49	
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube	8.80	3.44
<i>For Up To 20, Add</i>	0.97	
<i>For >150, Deduct</i>	-0.36	
<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube	9.66	3.55
<i>For Up To 20, Add</i>	1.07	
<i>For >150, Deduct</i>	-0.43	
<i>For Work In Restricted Working Space, Add</i>	1.60	
22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube	12.20	3.65
<i>For Up To 20, Add</i>	1.39	
<i>For >150, Deduct</i>	-0.67	
<i>For Work In Restricted Working Space, Add</i>	1.64	
22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube	15.08	4.10
<i>For Up To 20, Add</i>	1.73	
<i>For >150, Deduct</i>	-0.89	
<i>For Work In Restricted Working Space, Add</i>	1.84	
22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube	19.67	6.09
<i>For Up To 20, Add</i>	2.23	
<i>For >150, Deduct</i>	-1.05	
<i>For Work In Restricted Working Space, Add</i>	2.74	
22 11 16 00-0432 LF 1-1/2" Soft Drawn Type K Copper Tube	24.84	6.80
<i>For Up To 20, Add</i>	2.85	
<i>For >150, Deduct</i>	-1.46	
<i>For Work In Restricted Working Space, Add</i>	3.06	
22 11 16 00-0433 LF 2" Soft Drawn Type K Copper Tube	35.34	8.40
<i>For Up To 20, Add</i>	4.10	
<i>For >150, Deduct</i>	-2.28	
<i>For Work In Restricted Working Space, Add</i>	3.77	
22 11 16 00-0434 LF 2-1/2" Soft Drawn Type K Copper Tube	49.22	10.07
<i>For Up To 20, Add</i>	5.78	
<i>For >150, Deduct</i>	-3.41	
<i>For Work In Restricted Working Space, Add</i>	4.53	
22 11 16 00-0435 LF 3" Soft Drawn Type K Copper Tube	65.30	11.88
<i>For Up To 20, Add</i>	7.72	
<i>For >150, Deduct</i>	-4.75	
<i>For Work In Restricted Working Space, Add</i>	5.34	
22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368)		
Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow	32.26	18.79
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.43	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.02	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
<i>For Street Fitting, Add</i>	1.64	
<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow	38.12	22.54
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.29	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.60	
<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
<i>For Street Fitting, Add</i>	1.73	
<i>For Work In Restricted Working Space, Add</i>	10.14	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0440	EA	1/2"	90 Degree Copper Elbow	47.88	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.72	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Street Fitting, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0441	EA	3/4"	90 Degree Copper Elbow	60.89	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Street Fitting, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0442	EA	1"	90 Degree Copper Elbow	76.72	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.74	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Street Fitting, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0443	EA	1-1/4"	90 Degree Copper Elbow	86.18	49.86
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.20	
			<i>For Street Fitting, Add</i>	4.61	
			<i>For Work In Restricted Working Space, Add</i>	22.40	
22 11 16 00-0444	EA	1-1/2"	90 Degree Copper Elbow	99.72	54.51
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.16	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.25	
			<i>For Street Fitting, Add</i>	7.21	
			<i>For Work In Restricted Working Space, Add</i>	24.51	
22 11 16 00-0445	EA	2"	90 Degree Copper Elbow	124.40	61.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.73	
			<i>For Street Fitting, Add</i>	13.14	
			<i>For Work In Restricted Working Space, Add</i>	27.46	
22 11 16 00-0446	EA	2-1/2"	90 Degree Copper Elbow	157.80	62.24
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.00	
			<i>For Work In Restricted Working Space, Add</i>	28.01	
22 11 16 00-0447	EA	3"	90 Degree Copper Elbow	202.40	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.27	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.70	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0448	EA	4"	90 Degree Copper Elbow	378.71	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.76	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0449	EA	5"	90 Degree Copper Elbow	1,140.34	144.46
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-67.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	32.48	
			<i>For Work In Restricted Working Space, Add</i>	64.97	
22 11 16 00-0450	EA	6"	90 Degree Copper Elbow	1,546.59	210.21
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	108.84	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-93.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	47.27	
			<i>For Work In Restricted Working Space, Add</i>	94.53	
22 11 16 00-0451	EA	8"	90 Degree Copper Elbow	4,976.01	280.23
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	290.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-269.81	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	63.02	
			<i>For Work In Restricted Working Space, Add</i>	126.05	
22 11 16 00-0452			90 Degree Brass Elbows (22 11 16 00-0436)		
22 11 16 00-0453	EA	1/2"	Drop Ear 90 Degree Brass Elbow.....	55.28	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.09	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	
22 11 16 00-0454	EA	3/4"	Drop Ear 90 Degree Brass Elbow.....	83.40	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.94	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.06	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0455	EA	1/2"	Flanged Sink 90 Degree Brass Elbow.....	62.52	30.98
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.45	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.97	
			<i>For Work In Restricted Working Space, Add</i>	13.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0456 EA 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	46.96	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.04	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0457 EA 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	55.90	30.98
For Silver Solder Instead Of 95/5 Solder, Add	7.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.97	
For Work In Restricted Working Space, Add	13.94	
22 11 16 00-0458 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	74.33	38.59
For Silver Solder Instead Of 95/5 Solder, Add	9.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
For Work In Restricted Working Space, Add	17.32	
22 11 16 00-0459 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	121.97	46.06
For Silver Solder Instead Of 95/5 Solder, Add	13.00	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
For Work In Restricted Working Space, Add	20.70	
22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461 EA 1/2" Reducing 90 Degree Copper Elbow	57.85	30.98
For Silver Solder Instead Of 95/5 Solder, Add	7.54	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.97	
For Work In Restricted Working Space, Add	13.94	
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow	65.80	38.59
For Silver Solder Instead Of 95/5 Solder, Add	9.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
For Work In Restricted Working Space, Add	17.32	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow	83.81	46.06
For Silver Solder Instead Of 95/5 Solder, Add	11.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
For Work In Restricted Working Space, Add	20.70	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow	112.34	49.86
For Silver Solder Instead Of 95/5 Solder, Add	13.08	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.35	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.20	
For Work In Restricted Working Space, Add	22.40	
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow	131.22	54.51
For Silver Solder Instead Of 95/5 Solder, Add	14.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.65	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.25	
For Work In Restricted Working Space, Add	24.51	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow	158.20	61.12
For Silver Solder Instead Of 95/5 Solder, Add	17.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.49	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.73	
For Work In Restricted Working Space, Add	27.46	
22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow	35.80	18.79
For Silver Solder Instead Of 95/5 Solder, Add	4.61	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Street Fitting, Add	3.05	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow	40.34	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.40	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Street Fitting, Add	2.62	
For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow	49.05	30.98
For Silver Solder Instead Of 95/5 Solder, Add	7.10	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.78	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.97	
For Street Fitting, Add	1.03	
For Work In Restricted Working Space, Add	13.94	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow	62.14	38.59
For Silver Solder Instead Of 95/5 Solder, Add	8.88	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
For Street Fitting, Add	1.76	
For Work In Restricted Working Space, Add	17.32	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow	79.99	46.06
For Silver Solder Instead Of 95/5 Solder, Add	10.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.45	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
For Street Fitting, Add	4.39	
For Work In Restricted Working Space, Add	20.70	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0473	EA	1-1/4"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	89.52 11.94 -8.21 11.20 5.95 22.40	49.86
22 11 16 00-0474	EA	1-1/2"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	99.95 13.17 -9.08 12.25 7.30 24.51	54.51
22 11 16 00-0475	EA	2"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	121.99 15.25 -10.68 13.73 27.46	61.12
22 11 16 00-0476	EA	2-1/2"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	157.03 17.19 -12.52 14.00 28.01	62.24
22 11 16 00-0477	EA	3"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	205.99 21.45 -15.88 16.73 33.46	74.44
22 11 16 00-0478	EA	4"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	359.63 33.80 -25.89 23.73 47.46	105.56
22 11 16 00-0479	EA	5"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	996.65 71.49 -60.66 32.48 64.97	144.46
22 11 16 00-0480	EA	6"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	1,544.49 108.74 -92.98 47.27 94.53	210.21
22 11 16 00-0481	EA	8"	45 Degree Copper Elbow For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	4,597.53 271.89 -250.88 63.02 126.05	280.23
22 11 16 00-0482			Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483	EA	1/4"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	50.83 6.77 -4.65 6.34 12.68	28.17
22 11 16 00-0484	EA	3/8"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	57.60 7.95 -5.42 7.61 15.21	33.80
22 11 16 00-0485	EA	1/2"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	72.84 10.69 -7.16 10.56 21.13	47.04
22 11 16 00-0486	EA	3/4"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	93.08 13.39 -9.02 13.10 26.20	58.31
22 11 16 00-0487	EA	1"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	121.56 16.50 -11.29 15.63 31.27	69.58
22 11 16 00-0488	EA	1-1/4"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	136.81 18.11 -12.47 16.90 33.80	75.21
22 11 16 00-0489	EA	1-1/2"	Straight Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	159.05 20.21 -14.08 18.38 36.76	81.69



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.09 23.61 -16.71 20.70 41.41	92.11
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.92 26.75 -19.75 21.01 42.02	93.36
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.07 34.06 -25.63 25.29 50.57	112.43
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	660.76 56.64 -44.84 35.40 70.80	157.43
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,711.38 117.86 -101.71 48.43 96.87	215.39
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,371.36 165.90 -142.23 71.00 142.00	315.76
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,951.84 460.61 -429.10 94.53 189.07	420.41
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.27 11.31 -7.79 10.56 21.13	47.04
22 11 16 00-0498			Reducing Copper Tees (22 11 16 00-0436)		
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.70 7.44 -5.19 6.76 13.52	30.00
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.37 10.11 -6.94 9.51 19.01	42.26
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.80 12.56 -8.47 12.25 24.51	54.51
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.02 15.76 -10.83 14.79 29.58	65.77
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.52 17.53 -12.18 16.06 32.11	71.41
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.56 19.62 -13.77 17.54 35.07	78.03
22 11 16 00-0505	EA		2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.23 22.66 -16.11 19.65 39.30	87.32
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.70 26.52 -19.78 20.23 40.46	89.99

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0507 EA 3" Reducing Copper Tee..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.26 33.67 -25.89 23.34 46.68	103.74
22 11 16 00-0508 EA 4" Reducing Copper Tee..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	626.95 50.54 -40.94 28.79 57.58	127.99
22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510 EA 1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.99 4.27 -2.86 4.23 8.45	18.79
22 11 16 00-0511 EA 3/8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.89 5.12 -3.43 5.07 10.14	22.54
22 11 16 00-0512 EA 1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.38 7.02 -4.69 6.97 13.94	30.98
22 11 16 00-0513 EA 3/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.57 8.75 -5.87 8.66 17.32	38.59
22 11 16 00-0514 EA 1" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.63 10.53 -7.08 10.35 20.70	46.06
22 11 16 00-0515 EA 1-1/4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.04 11.52 -7.78 11.20 22.40	49.86
22 11 16 00-0516 EA 1-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.14 12.68 -8.59 12.25 24.51	54.51
22 11 16 00-0517 EA 2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.60 14.43 -9.86 13.73 27.46	60.56
22 11 16 00-0518 EA 2-1/2" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.07 14.67 -10.26 13.23 26.45	58.87
22 11 16 00-0519 EA 3" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.66 17.92 -12.60 15.95 31.90	71.32
22 11 16 00-0520 EA 4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.28 25.73 -18.60 21.40 42.79	95.96
22 11 16 00-0521 EA 5" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.07 38.20 -28.48 29.18 58.35	175.06
22 11 16 00-0522 EA 6" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	583.68 57.71 -43.45 42.79 85.59	190.23
22 11 16 00-0523 EA 8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,345.89 105.16 -86.23 56.80 113.60	252.22
22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.96 4.32 -2.91 4.23 8.45	18.74
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.01 6.11 -4.11 6.02 12.04	26.76
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.34 7.98 -5.37 7.82 15.63	34.79
22 11 16 00-0528	EA		1" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.22 9.80 -6.63 9.51 19.01	42.26
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.97 11.18 -7.59 10.77 21.55	47.89
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.64 12.40 -8.49 11.73 23.45	52.11
22 11 16 00-0531	EA		2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	107.45 14.03 -9.70 12.99 25.99	57.74
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.69 15.47 -11.03 13.32 26.65	59.26
22 11 16 00-0533	EA		3" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.45 18.02 -12.90 15.37 30.74	68.72
22 11 16 00-0534	EA		4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.07 25.49 -18.75 20.23 40.46	89.99
22 11 16 00-0535	EA		5" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	599.46 48.78 -39.37 28.20 56.41	125.39
22 11 16 00-0536	EA		6" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	889.98 69.79 -57.14 37.93 75.86	168.57
22 11 16 00-0537	EA		8" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,718.92 122.77 -104.36 55.24 110.48	245.65
22 11 16 00-0538			Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539	EA		1/4" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.62 4.95 -3.54 4.23 8.45	18.31
22 11 16 00-0540	EA		3/8" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.00 5.43 -3.74 5.07 10.14	22.54
22 11 16 00-0541	EA		1/2" Male Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.18 6.49 -4.37 6.34 12.68	28.17

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	57.06	35.21
For Silver Solder Instead Of 95/5 Solder, Add	8.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.82	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	73.14	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter	88.73	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.48	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter	101.70	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.11	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	139.07	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter	247.69	88.73
For Silver Solder Instead Of 95/5 Solder, Add	25.62	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.86	
For Work In Restricted Working Space, Add	39.72	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	329.00	118.33
For Silver Solder Instead Of 95/5 Solder, Add	34.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-25.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	26.45	
For Work In Restricted Working Space, Add	52.91	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	493.09	165.99
For Silver Solder Instead Of 95/5 Solder, Add	49.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	37.35	
For Work In Restricted Working Space, Add	74.69	
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter	37.40	18.31
For Silver Solder Instead Of 95/5 Solder, Add	4.69	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Work In Restricted Working Space, Add	8.45	
22 11 16 00-0552 EA 3/8" Female Copper Adapter	43.46	22.54
For Silver Solder Instead Of 95/5 Solder, Add	5.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.07	
For Work In Restricted Working Space, Add	10.14	
22 11 16 00-0553 EA 1/2" Female Copper Adapter	46.93	28.17
For Silver Solder Instead Of 95/5 Solder, Add	6.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.34	
For Work In Restricted Working Space, Add	12.68	
22 11 16 00-0554 EA 3/4" Female Copper Adapter	58.50	35.21
For Silver Solder Instead Of 95/5 Solder, Add	8.14	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.82	
For Work In Restricted Working Space, Add	15.63	
22 11 16 00-0555 EA 1" Female Copper Adapter	75.16	40.84
For Silver Solder Instead Of 95/5 Solder, Add	9.81	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.08	
For Work In Restricted Working Space, Add	18.17	
22 11 16 00-0556 EA 1-1/4" Female Copper Adapter	91.85	46.48
For Silver Solder Instead Of 95/5 Solder, Add	11.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.56	
For Work In Restricted Working Space, Add	21.13	
22 11 16 00-0557 EA 1-1/2" Female Copper Adapter	113.81	53.52
For Silver Solder Instead Of 95/5 Solder, Add	13.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.04	
For Work In Restricted Working Space, Add	24.08	
22 11 16 00-0558 EA 2" Female Copper Adapter	148.30	68.30
For Silver Solder Instead Of 95/5 Solder, Add	17.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.42	
For Work In Restricted Working Space, Add	30.85	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	284.58 26.42 -20.32 18.28 36.57	81.69
22 11 16 00-0560	EA		3" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	450.41 40.16 -31.34 26.45 52.91	118.33
22 11 16 00-0561 Wrot Copper, Solder Union <small>(22 11 16 00-0436)</small>					
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.05 6.23 -4.54 5.07 10.14	22.54
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.80 7.32 -5.28 6.13 12.25	27.18
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.52 8.35 -5.81 7.61 15.21	33.80
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.95 9.57 -6.68 8.66 17.32	38.59
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.31 11.92 -8.47 10.35 20.70	46.06
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.38 13.68 -9.87 11.41 22.82	50.71
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.41 15.87 -11.65 12.68 25.35	56.34
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	210.34 20.66 -15.59 15.21 30.42	67.60
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	408.58 31.58 -26.01 16.73 33.46	74.44
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	926.91 62.17 -54.26 23.73 47.46	105.56
22 11 16 00-0572 Cast Bronze, Solder Union <small>(22 11 16 00-0436)</small>					
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.63 6.66 -4.97 5.07 10.14	22.54
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.89 7.73 -5.69 6.13 12.25	27.18
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.77 8.46 -5.92 7.61 15.21	33.80
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.14 9.73 -6.84 8.66 17.32	38.59

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union	105.84	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.19	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union	136.49	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.43	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union	164.17	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.66	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union	237.18	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	22.00	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-16.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union	408.56	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.58	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.00	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0582	EA		3" Cast Bronze, Solder Union	926.91	105.56
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.17	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-54.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.73	
			<i>For Work In Restricted Working Space, Add</i>	47.46	
22 11 16 00-0583			Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)		
22 11 16 00-0584	EA		1/4" Cast Bronze, Solder X Female Threaded Union.....	77.21	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.55	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-0585	EA		3/8" Cast Bronze, Solder X Female Threaded Union.....	85.76	27.18
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.33	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.13	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0586	EA		1/2" Cast Bronze, Solder X Female Threaded Union.....	86.39	33.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.39	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.61	
			<i>For Work In Restricted Working Space, Add</i>	15.21	
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	106.37	38.59
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.09	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.66	
			<i>For Work In Restricted Working Space, Add</i>	17.32	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union.....	170.16	46.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.96	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union.....	264.57	50.71
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.83	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For Work In Restricted Working Space, Add</i>	22.82	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union.....	323.33	56.34
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.62	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.39	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.68	
			<i>For Work In Restricted Working Space, Add</i>	25.35	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union.....	505.66	67.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.42	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-30.35	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	15.21	
			<i>For Work In Restricted Working Space, Add</i>	30.42	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union.....	877.84	74.44
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	55.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-49.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For Work In Restricted Working Space, Add</i>	33.46	
22 11 16 00-0593			Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)		
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	66.87	22.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.72	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.14	



Plumbing	22
Plumbing Piping	22 10
Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0595 EA 3/8" Cast Bronze, Solder X Male Threaded Union.....	79.43	27.18
For Silver Solder Instead Of 95/5 Solder, Add	8.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.01	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.13	
For Work In Restricted Working Space, Add	12.25	
22 11 16 00-0596 EA 1/2" Cast Bronze, Solder X Male Threaded Union.....	78.87	33.80
For Silver Solder Instead Of 95/5 Solder, Add	9.01	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.61	
For Work In Restricted Working Space, Add	15.21	
22 11 16 00-0597 EA 3/4" Cast Bronze, Solder X Male Threaded Union.....	100.00	38.59
For Silver Solder Instead Of 95/5 Solder, Add	10.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.66	
For Work In Restricted Working Space, Add	17.32	
22 11 16 00-0598 EA 1" Cast Bronze, Solder X Male Threaded Union.....	173.08	46.06
For Silver Solder Instead Of 95/5 Solder, Add	15.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.35	
For Work In Restricted Working Space, Add	20.70	
22 11 16 00-0599 EA 1-1/4" Cast Bronze, Solder X Male Threaded Union.....	205.15	50.71
For Silver Solder Instead Of 95/5 Solder, Add	17.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.41	
For Work In Restricted Working Space, Add	22.82	
22 11 16 00-0600 EA 1-1/2" Cast Bronze, Solder X Male Threaded Union.....	220.10	56.34
For Silver Solder Instead Of 95/5 Solder, Add	19.46	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.68	
For Work In Restricted Working Space, Add	25.35	
22 11 16 00-0601 EA 2" Cast Bronze, Solder X Male Threaded Union.....	309.68	67.60
For Silver Solder Instead Of 95/5 Solder, Add	25.63	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.21	
For Work In Restricted Working Space, Add	30.42	
22 11 16 00-0602 EA 2-1/2" Cast Bronze, Solder X Male Threaded Union.....	721.87	74.44
For Silver Solder Instead Of 95/5 Solder, Add	47.25	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.67	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.73	
For Work In Restricted Working Space, Add	33.46	
22 11 16 00-0603 Copper Caps (22 11 16 00-0436)		
22 11 16 00-0604 EA 1/4" Copper Cap	10.54	6.19
For Silver Solder Instead Of 95/5 Solder, Add	1.46	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.99	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.39	
For Work In Restricted Working Space, Add	2.79	
22 11 16 00-0605 EA 3/8" Copper Cap	13.14	7.32
For Silver Solder Instead Of 95/5 Solder, Add	1.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.67	
For Work In Restricted Working Space, Add	3.35	
22 11 16 00-0606 EA 1/2" Copper Cap	16.35	10.14
For Silver Solder Instead Of 95/5 Solder, Add	2.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.58	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.30	
For Work In Restricted Working Space, Add	4.60	
22 11 16 00-0607 EA 3/4" Copper Cap	20.97	12.53
For Silver Solder Instead Of 95/5 Solder, Add	2.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.86	
For Work In Restricted Working Space, Add	5.72	
22 11 16 00-0608 EA 1" Copper Cap	27.26	15.07
For Silver Solder Instead Of 95/5 Solder, Add	3.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.42	
For Work In Restricted Working Space, Add	6.83	
22 11 16 00-0609 EA 1-1/4" Copper Cap	30.63	16.20
For Silver Solder Instead Of 95/5 Solder, Add	3.99	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.76	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.69	
For Work In Restricted Working Space, Add	7.39	
22 11 16 00-0610 EA 1-1/2" Copper Cap	35.68	17.75
For Silver Solder Instead Of 95/5 Solder, Add	4.48	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.13	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.04	
For Work In Restricted Working Space, Add	8.09	
22 11 16 00-0611 EA 2" Copper Cap	43.94	18.41
For Silver Solder Instead Of 95/5 Solder, Add	4.98	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.17	
For Work In Restricted Working Space, Add	8.35	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0612	EA		2-1/2" Copper Cap	80.96	21.53
			For Silver Solder Instead Of 95/5 Solder, Add	7.32	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.68	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.90	
			For Work In Restricted Working Space, Add	9.80	
22 11 16 00-0613	EA		3" Copper Cap	110.98	27.62
			For Silver Solder Instead Of 95/5 Solder, Add	9.73	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.27	
			For Work In Restricted Working Space, Add	12.55	
22 11 16 00-0614	EA		4" Copper Cap	193.80	41.75
			For Silver Solder Instead Of 95/5 Solder, Add	16.02	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.85	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.49	
			For Work In Restricted Working Space, Add	18.98	
22 11 16 00-0615	EA		5" Cast Bronze Cap	1,014.93	64.32
			For Silver Solder Instead Of 95/5 Solder, Add	60.49	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-55.62	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.62	
			For Work In Restricted Working Space, Add	29.24	
22 11 16 00-0616	EA		6" Cast Bronze Cap	1,969.75	93.62
			For Silver Solder Instead Of 95/5 Solder, Add	112.67	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-105.58	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.27	
			For Work In Restricted Working Space, Add	42.54	
22 11 16 00-0617	EA		8" Cast Bronze Cap	2,509.02	124.75
			For Silver Solder Instead Of 95/5 Solder, Add	144.36	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-134.90	
			For Brazed Fittings Instead Of 95/5 Solder, Add	28.36	
			For Work In Restricted Working Space, Add	56.72	
22 11 16 00-0618			Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619	EA		1/2" Copper Cross	101.65	57.05
			For Silver Solder Instead Of 95/5 Solder, Add	13.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.84	
			For Work In Restricted Working Space, Add	25.68	
22 11 16 00-0620	EA		3/4" Copper Cross	137.55	70.94
			For Silver Solder Instead Of 95/5 Solder, Add	17.51	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.95	
			For Work In Restricted Working Space, Add	31.90	
22 11 16 00-0621	EA		1" Copper Cross	180.11	84.68
			For Silver Solder Instead Of 95/5 Solder, Add	21.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	19.06	
			For Work In Restricted Working Space, Add	38.12	
22 11 16 00-0622	EA		1-1/4" Copper Cross	213.68	91.68
			For Silver Solder Instead Of 95/5 Solder, Add	24.43	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	20.62	
			For Work In Restricted Working Space, Add	41.24	
22 11 16 00-0623	EA		1-1/2" Copper Cross	259.07	100.24
			For Silver Solder Instead Of 95/5 Solder, Add	28.00	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.48	
			For Brazed Fittings Instead Of 95/5 Solder, Add	22.56	
			For Work In Restricted Working Space, Add	45.13	
22 11 16 00-0624	EA		2" Copper Cross	373.82	112.43
			For Silver Solder Instead Of 95/5 Solder, Add	35.55	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	25.29	
			For Work In Restricted Working Space, Add	50.57	
22 11 16 00-0625	EA		2-1/2" Copper Cross	659.84	124.49
			For Silver Solder Instead Of 95/5 Solder, Add	51.67	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.33	
			For Brazed Fittings Instead Of 95/5 Solder, Add	28.01	
			For Work In Restricted Working Space, Add	56.02	
22 11 16 00-0626			Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627	EA		3/8" Cast Bronze Cross	83.66	41.50
			For Silver Solder Instead Of 95/5 Solder, Add	10.41	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.34	
			For Work In Restricted Working Space, Add	18.67	
22 11 16 00-0628	EA		1/2" Cast Bronze Cross	104.86	57.05
			For Silver Solder Instead Of 95/5 Solder, Add	13.80	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.84	
			For Work In Restricted Working Space, Add	25.68	
22 11 16 00-0629	EA		3/4" Cast Bronze Cross	143.79	70.94
			For Silver Solder Instead Of 95/5 Solder, Add	17.82	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.95	
			For Work In Restricted Working Space, Add	31.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0630	EA		1" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.71 22.24 -15.89 19.06 38.12	84.68
22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.93 25.19 -18.32 20.62 41.24	91.68
22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.80 29.08 -21.56 22.56 45.13	100.24
22 11 16 00-0633	EA		2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	414.86 37.60 -29.17 25.29 50.57	112.43
22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	754.46 56.40 -47.06 28.01 56.02	124.49
22 11 16 00-0635			Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	112.87	38.59
22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	100.93	38.59
22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	108.45	38.59
22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	115.08	38.59
22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	119.50	38.59
22 11 16 00-0642			Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643			Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow	28.11	16.91
22 11 16 00-0645	EA		3/4" Crimped Copper 90 Degree Elbow	33.54	19.30
22 11 16 00-0646	EA		1" Crimped Copper 90 Degree Elbow	43.86	22.96
22 11 16 00-0647	EA		1-1/4" Crimped Copper 90 Degree Elbow	56.91	25.35
22 11 16 00-0648	EA		1-1/2" Crimped Copper 90 Degree Elbow	78.03	28.17
22 11 16 00-0649	EA		2" Crimped Copper 90 Degree Elbow	100.42	33.80
22 11 16 00-0650	EA		2-1/2" Crimped Copper 90 Degree Elbow	203.54	39.43
22 11 16 00-0651	EA		3" Crimped Copper 90 Degree Elbow	252.09	46.90
22 11 16 00-0652	EA		4" Crimped Copper 90 Degree Elbow	317.71	61.97
22 11 16 00-0653			Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654	EA		1/2" Crimped Copper 45 Degree Elbow	28.56	16.91
22 11 16 00-0655	EA		3/4" Crimped Copper 45 Degree Elbow	32.81	19.30
22 11 16 00-0656	EA		1" Crimped Copper 45 Degree Elbow	47.16	22.96
22 11 16 00-0657	EA		1-1/4" Crimped Copper 45 Degree Elbow	56.18	25.35
22 11 16 00-0658	EA		1-1/2" Crimped Copper 45 Degree Elbow	71.70	28.17
22 11 16 00-0659	EA		2" Crimped Copper 45 Degree Elbow	91.89	33.80
22 11 16 00-0660	EA		2-1/2" Crimped Copper 45 Degree Elbow	154.53	39.43
22 11 16 00-0661	EA		3" Crimped Copper 45 Degree Elbow	206.70	46.90
22 11 16 00-0662	EA		4" Crimped Copper 45 Degree Elbow	282.20	61.97
22 11 16 00-0663			Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664	EA		1/2" Crimped Copper Straight Tee	42.24	25.35
22 11 16 00-0665	EA		3/4" Crimped Copper Straight Tee	57.43	33.38
22 11 16 00-0666	EA		1" Crimped Copper Straight Tee	69.02	37.04
22 11 16 00-0667	EA		1-1/4" Crimped Copper Straight Tee	79.69	38.02
22 11 16 00-0668	EA		1-1/2" Crimped Copper Straight Tee	108.80	43.24
22 11 16 00-0669	EA		2" Crimped Copper Straight Tee	130.44	50.71
22 11 16 00-0670	EA		2-1/2" Crimped Copper Straight Tee	267.13	59.15
22 11 16 00-0671	EA		3" Crimped Copper Straight Tee	328.62	70.43
22 11 16 00-0672	EA		4" Crimped Copper Straight Tee	452.33	92.95
22 11 16 00-0673			Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674	EA		3/4" Crimped Copper Reducing Tee	47.65	24.09
22 11 16 00-0675	EA		1" Crimped Copper Reducing Tee	67.83	31.69
22 11 16 00-0676	EA		1-1/4" Crimped Copper Reducing Tee	73.54	35.21
22 11 16 00-0677	EA		1-1/2" Crimped Copper Reducing Tee	93.29	36.19
22 11 16 00-0678	EA		2" Crimped Copper Reducing Tee	110.99	40.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee.....	280.00	46.48
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee.....	341.06	56.34
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee.....	404.55	75.07
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling.....	27.83	16.91
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling.....	32.63	19.30
22 11 16 00-0685 EA 1" Crimped Copper Coupling.....	42.11	22.96
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling.....	47.47	25.35
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling.....	59.87	28.17
22 11 16 00-0688 EA 2" Crimped Copper Coupling.....	73.18	33.80
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling.....	131.07	39.43
22 11 16 00-0690 EA 3" Crimped Copper Coupling.....	162.02	46.90
22 11 16 00-0691 EA 4" Crimped Copper Coupling.....	220.12	61.97
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling.....	35.37	16.06
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling.....	40.40	18.31
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling.....	51.62	21.83
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling.....	63.88	24.09
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling.....	71.32	26.76
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....	132.84	31.97
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling.....	164.70	37.60
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling.....	214.45	49.72
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter.....	28.38	16.91
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter.....	34.37	19.30
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter.....	44.59	22.96
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter.....	60.12	25.35
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter.....	73.26	28.17
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter.....	110.41	33.80
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter.....	203.54	39.43
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter.....	252.09	46.90
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter.....	303.23	61.97
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter.....	29.02	16.91
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter.....	34.84	19.30
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter.....	45.51	22.96
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter.....	62.88	25.35
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter.....	78.40	28.17
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter.....	112.06	33.80
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap.....	17.99	8.45
22 11 16 00-0720 EA 3/4" Crimped Copper Cap.....	23.77	9.86
22 11 16 00-0721 EA 1" Crimped Copper Cap.....	30.76	11.26
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap.....	34.70	12.67
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap.....	46.13	14.51
22 11 16 00-0724 EA 2" Crimped Copper Cap.....	54.88	16.91
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap.....	123.99	19.72
22 11 16 00-0726 EA 3" Crimped Copper Cap.....	154.70	23.52
22 11 16 00-0727 EA 4" Crimped Copper Cap.....	205.71	30.98
22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union.....	50.10	22.96
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union.....	62.39	28.31
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union.....	84.05	33.94
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union.....	100.88	39.15
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union.....	123.50	38.31
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union.....	170.59	55.49
22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union.....	44.79	16.91
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union.....	54.36	19.30
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union.....	75.22	22.96
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union.....	96.16	25.35
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union.....	121.22	28.17
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union.....	179.66	33.80



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0742		C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
	EA	2-1/2" C x Flange Crimped Bronze Flange	335.25	39.43
	EA	3" C x Flange Crimped Bronze Flange	367.61	46.90
	EA	4" C x Flange Crimped Bronze Flange	425.63	61.97
22 11 16 00-0746		Field Installed FKM Seals (22 11 16 00-0642)		
		Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
	EA	1/2" Field Installed FKM Seal.....	7.90	
		Note: To be used in conjunction with fittings.		
	EA	3/4" Field Installed FKM Seal.....	9.77	
		Note: To be used in conjunction with fittings.		
	EA	1" Field Installed FKM Seal.....	11.21	
		Note: To be used in conjunction with fittings.		
	EA	1-1/4" Field Installed FKM Seal	12.81	
		Note: To be used in conjunction with fittings.		
	EA	1-1/2" Field Installed FKM Seal	17.15	
		Note: To be used in conjunction with fittings.		
	EA	2" Field Installed FKM Seal.....	19.27	
		Note: To be used in conjunction with fittings.		
	EA	2-1/2" Field Installed FKM Seal	27.36	
		Note: To be used in conjunction with fittings.		
	EA	3" Field Installed FKM Seal.....	31.64	
		Note: To be used in conjunction with fittings.		
	EA	4" Field Installed FKM Seal.....	42.86	
		Note: To be used in conjunction with fittings.		
22 11 16 00-0756		Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)		
	EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	14.09	
	EA	3/4", Cut And Prepare Existing In Place Copper Pipe.....	15.22	
	EA	1", Cut And Prepare Existing In Place Copper Pipe.....	17.12	
	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe	17.96	
	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe	19.02	
	EA	2", Cut And Prepare Existing In Place Copper Pipe.....	20.92	
	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe	22.54	
	EA	3", Cut And Prepare Existing In Place Copper Pipe.....	26.62	
	EA	4", Cut And Prepare Existing In Place Copper Pipe.....	35.91	
	EA	6", Cut And Prepare Existing In Place Copper Pipe.....	51.33	
	EA	8", Cut And Prepare Existing In Place Copper Pipe.....	68.45	
22 11 16 00-0768		Sweat Brass Companion Flanges (22 11 16 00-0368)		
		Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
	EA	1" Sweat Brass Companion Flange	76.74	21.66
	EA	1-1/4" Sweat Brass Companion Flange.....	83.78	23.86
	EA	1-1/2" Sweat Brass Companion Flange.....	119.13	25.94
	EA	2" Sweat Brass Companion Flange	158.92	28.78
	EA	2-1/2" Sweat Brass Companion Flange	200.78	34.62
	EA	3" Sweat Brass Companion Flange	222.18	45.38
	EA	4" Sweat Brass Companion Flange	296.09	54.08
	EA	5" Sweat Brass Companion Flange	547.47	60.58
	EA	6" Sweat Brass Companion Flange	631.84	88.02
	EA	8" Copper Companion Flange	1,454.96	125.56
22 11 16 00-0779		Brass Compression Fittings (22 11 16 00-0368)		
22 11 16 00-0780		Brass Compression Unions (22 11 16 00-0779)		
	EA	1/4" Brass Compression Union.....	24.05	15.22
	EA	3/8" Brass Compression Union	24.39	15.22
	EA	1/2" Brass Compression Union	25.41	15.22
	EA	5/8" Brass Compression Union.....	25.90	15.22
	EA	3/4" Brass Compression Union.....	31.88	15.22
	EA	3/8" x 1/4" Brass Compression Union	24.62	15.22
	EA	1/2" x 3/8" Brass Compression Union	25.50	15.22
	EA	5/8" x 3/8" Brass Compression Union	26.10	15.22
	EA	5/8" x 1/2" Brass Compression Union	27.08	15.22
22 11 16 00-0790		Brass Compression Union Elbows (22 11 16 00-0779)		
	EA	1/4" Brass Compression Union Elbow	25.41	15.22
	EA	3/8" Brass Compression Union Elbow	25.97	15.22
	EA	1/2" Brass Compression Union Elbow	27.19	15.22
	EA	5/8" Brass Compression Union Elbow	29.08	15.22
	EA	3/4" Brass Compression Union Elbow	36.46	15.22
	EA	3/8" x 1/4" Brass Compression Union Elbow	25.97	15.22
	EA	1/2" x 3/8" Brass Compression Union Elbow	27.19	15.22
	EA	5/8" x 3/8" Brass Compression Union Elbow	27.53	15.22
	EA	5/8" x 1/2" Brass Compression Union Elbow	33.08	15.22



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0800			Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801	EA		1/4" Brass Compression Union Tee.....	25.83	15.22
22 11 16 00-0802	EA		3/8" Brass Compression Union Tee.....	26.99	15.22
22 11 16 00-0803	EA		1/2" Brass Compression Union Tee.....	28.20	15.22
22 11 16 00-0804	EA		5/8" Brass Compression Union Tee.....	32.06	15.22
22 11 16 00-0805	EA		3/4" Brass Compression Union Tee.....	45.40	15.22
22 11 16 00-0806	EA		3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	27.80	15.22
22 11 16 00-0807	EA		1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	34.06	15.22
22 11 16 00-0808	EA		5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	33.46	15.22
22 11 16 00-0809	EA		5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	34.16	15.22
22 11 16 00-0810			Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811	EA		1/4" Brass Compression Male Connector.....	23.80	15.22
22 11 16 00-0812	EA		3/8" Brass Compression Male Connector.....	24.25	15.22
22 11 16 00-0813	EA		1/2" Brass Compression Male Connector.....	25.02	15.22
22 11 16 00-0814	EA		5/8" Brass Compression Male Connector.....	26.17	15.22
22 11 16 00-0815	EA		3/4" Brass Compression Male Connector.....	29.14	15.07
22 11 16 00-0816			Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817	EA		1/4" Brass Compression Female Connector.....	24.29	15.22
22 11 16 00-0818	EA		3/8" Brass Compression Female Connector.....	24.87	15.22
22 11 16 00-0819	EA		1/2" Brass Compression Female Connector.....	25.85	15.22
22 11 16 00-0820	EA		5/8" Brass Compression Female Connector.....	26.49	15.22
22 11 16 00-0821	EA		3/4" Brass Compression Female Connector.....	35.41	14.93
22 11 16 00-0822			Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823			Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	58.01	33.80
22 11 16 00-0825	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	65.04	38.59
22 11 16 00-0826	EA		1" Copper x Female Iron Pipe Thread Dielectric Union.....	76.24	42.41
22 11 16 00-0827	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	90.83	46.68
22 11 16 00-0828	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	108.31	51.87
22 11 16 00-0829	EA		2" Copper x Female Iron Pipe Thread Dielectric Union.....	136.35	62.24
22 11 16 00-0830			Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	62.62	33.80
22 11 16 00-0832	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	72.63	38.59
22 11 16 00-0833	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	86.25	42.41
22 11 16 00-0834	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	104.11	46.68
22 11 16 00-0835	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	124.74	51.87
22 11 16 00-0836	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	155.62	62.24
22 11 16 00-0837			Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	59.70	33.80
22 11 16 00-0839	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	67.81	38.59
22 11 16 00-0840	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	76.97	42.41
22 11 16 00-0841	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	88.26	46.68
22 11 16 00-0842	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	105.77	51.87
22 11 16 00-0843	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	134.31	62.24
22 11 16 00-0844			Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0845	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	334.77	160.02
22 11 16 00-0846	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange.....	419.48	201.51
22 11 16 00-0847	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange.....	588.13	274.26
22 11 16 00-0848			Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
22 11 16 00-0849	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	336.66	160.02
22 11 16 00-0850	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	434.59	201.51
22 11 16 00-0851	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	762.49	274.26
22 11 16 00-0852			Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0853	EA		1/4" x 1/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	27.68	14.09
22 11 16 00-0854	EA		3/8" x 3/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	33.31	15.02
22 11 16 00-0855	EA		1/2" x 1/2" Brass Push-Fit Coupling..... Note: (Sharkbite)	35.08	16.91



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	22 11 16 00-0856	EA		5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	39.77	18.03
	22 11 16 00-0857	EA		3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	40.91	19.25
	22 11 16 00-0858	EA		1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	55.77	23.00
	22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	34.19	15.96
	22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	39.15	17.47
	22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	56.24	21.13
	22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow Note: (Sharkbite)	28.62	14.09
	22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow Note: (Sharkbite)	37.34	15.02
	22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow Note: (Sharkbite)	35.60	16.91
	22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow Note: (Sharkbite)	42.11	18.03
	22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow Note: (Sharkbite)	40.24	19.25
	22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow Note: (Sharkbite)	56.29	23.00
	22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	33.76	15.96
	22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	37.48	17.47
	22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	67.78	21.13
	22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	43.32	21.13
	22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	53.06	22.54
	22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	50.60	25.35
	22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	62.18	27.04
	22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	58.73	28.87
	22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	78.17	34.50
	22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	54.86	23.94
	22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	55.31	24.41
	22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	56.62	27.71
	22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	75.48	32.63
	22 11 16 00-0881	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	15.50
	22 11 16 00-0882	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0883	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.40	16.91
	22 11 16 00-0884	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	37.05	19.25
	22 11 16 00-0885	EA		1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	50.35	23.00
	22 11 16 00-0886	EA		1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	29.17	15.50
	22 11 16 00-0887	EA		3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.29	15.96
	22 11 16 00-0888	EA		1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.46	16.91
	22 11 16 00-0889	EA		3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.76	19.25
	22 11 16 00-0890	EA		5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	38.98	18.63
	22 11 16 00-0891	EA		1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	46.25	21.13
	22 11 16 00-0892	EA		1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	50.95	23.00
	22 11 16 00-0893	EA		1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	43.59	16.91
	22 11 16 00-0894	EA		3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	50.75	19.25
	22 11 16 00-0895	EA		1" Brass Push-Fit Ball Valve Note: (Sharkbite)	66.01	23.00
	22 11 16 00-0896	EA		1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	46.19	16.91
	22 11 16 00-0897	EA		3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	55.14	19.25

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



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22 11 16 00-0898	EA		1" Brass Push-Fit Check Valve Note: (Sharkbite)	88.85	23.00
22 11 16 00-0899			Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF		1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.66 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.42 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.53 <i>For For Brazed Fittings, Add</i> 0.88 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.43 <i>For Work In Restricted Working Space, Add</i> 6.61	26.51	3.94
22 11 16 00-0901	LF		3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.96 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.66 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.02 <i>For For Brazed Fittings, Add</i> 1.00 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.77 <i>For Work In Restricted Working Space, Add</i> 7.49	30.51	5.07
22 11 16 00-0902	LF		1" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.31 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.92 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.29 <i>For For Brazed Fittings, Add</i> 1.05 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.98 <i>For Work In Restricted Working Space, Add</i> 7.85	33.41	6.05
22 11 16 00-0903	LF		1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.84 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.29 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.58 <i>For For Brazed Fittings, Add</i> 1.09 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.22 <i>For Work In Restricted Working Space, Add</i> 8.15 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.00	37.21	7.04
22 11 16 00-0904	LF		1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.29 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.63 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.96 <i>For For Brazed Fittings, Add</i> 1.16 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.51 <i>For Work In Restricted Working Space, Add</i> 8.70 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.22	41.21	8.03
22 11 16 00-0905	LF		2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.47 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.49 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.90 <i>For For Brazed Fittings, Add</i> 1.33 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.24 <i>For Work In Restricted Working Space, Add</i> 10.01 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.80	51.36	10.00
22 11 16 00-0906	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 6.10 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.64 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.71 <i>For For Brazed Fittings, Add</i> 1.43 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.92 <i>For Work In Restricted Working Space, Add</i> 10.73 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.68	62.56	12.06
22 11 16 00-0907	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 7.97 <i>For Type M Tubing Instead Of Type L, Deduct</i> -5.97 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 7.65 <i>For For Brazed Fittings, Add</i> 1.55 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -5.72 <i>For Work In Restricted Working Space, Add</i> 11.63 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -3.68	75.56	14.00



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22 11 16 00-0908 LF 4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	116.55 13.59 -9.98 10.84 2.00 -8.33 15.03 -6.64	18.54
22 11 16 00-0909 LF 5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	209.38 27.87 -19.98 16.90 2.57 -13.69 19.30 -14.51	23.08
22 11 16 00-0910 LF 6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	273.59 36.73 -26.30 21.85 3.27 -17.76 24.51 -19.19	27.88
22 11 16 00-0911 LF 8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	610.72 92.87 -65.16 40.69 4.06 -35.61 30.46 -50.92	33.33
22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915 LF 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.84 1.55	2.07
22 11 16 00-0916 LF 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.08 1.63	2.18
22 11 16 00-0917 LF 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.21 1.76	2.34
22 11 16 00-0918 LF 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.79 1.92	2.56
22 11 16 00-0919 LF 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	16.01 2.12	2.83
22 11 16 00-0920 LF 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	20.28 2.37	3.16
22 11 16 00-0921 LF 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	27.92 2.69	3.59
22 11 16 00-0922 LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	35.92 3.19	4.26
22 11 16 00-0923 LF 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	50.17 3.92	5.22
22 11 16 00-0924 LF 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	88.38 4.98	6.64
22 11 16 00-0925 LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	127.63 6.53	8.71
22 11 16 00-0926 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0927 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	28.80 7.39	9.86
22 11 16 00-0928 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	37.59 9.34	12.44
22 11 16 00-0929 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	49.26 11.71	15.56
22 11 16 00-0930 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	68.45 14.63	19.45
22 11 16 00-0931 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	76.19 16.18	21.53



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	90.16 18.05	21.53
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	146.58 20.54	27.36
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.79 24.28	32.42
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	241.14 29.88	39.81
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	303.99 37.97	50.57
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	600.22 49.80	66.39
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	30.88 7.39	9.86
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	40.08 9.34	12.44
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	53.30 11.71	15.56
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	73.77 14.63	19.45
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.66 16.18	21.53
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.35 18.05	24.12
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.97 20.54	27.36
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	165.62 24.28	32.42
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.78 29.88	39.81
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	351.53 37.97	50.57
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	633.90 49.80	66.39
22 11 16 00-0950			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)		
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	44.53 11.09	14.78
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	58.76 14.00	18.67
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	73.46 17.58	23.47
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	104.45 21.94	29.31
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	116.80 24.28	32.42
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	143.77 27.08	36.05
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	190.62 30.81	41.11
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	217.04 36.41	48.50
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	262.40 44.82	59.78
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	410.65 56.95	75.99
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee..... <i>For Work In Restricted Working Space, Add</i>	881.14 74.69	99.59
22 11 16 00-0962			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)		
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	55.80 14.78	19.71
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	72.64 18.67	24.90
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	90.85 23.42	31.25
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	124.49 29.26	39.03
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	138.80 32.37	43.18
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	166.43 36.10	48.11
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	212.66 41.08	54.72
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	244.22 48.55	64.71
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	296.51 59.75	79.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0972	EA			6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	443.31 75.94	101.28
22 11 16 00-0973	EA			8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	876.47 99.59	132.79
22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>						
22 11 16 00-0975	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	25.32 6.85	9.07
22 11 16 00-0976	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	35.58 9.22	12.31
22 11 16 00-0977	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	62.38 12.06	16.08
22 11 16 00-0978	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	70.66 13.34	17.77
22 11 16 00-0979	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	84.05 14.90	19.84
22 11 16 00-0980	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	90.92 16.96	22.57
22 11 16 00-0981	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	110.80 20.03	26.71
22 11 16 00-0982	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	152.76 24.66	32.81
22 11 16 00-0983	EA			6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	254.66 31.32	41.75
22 11 16 00-0984	EA			8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	589.07 41.08	54.72
22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>						
22 11 16 00-0986	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	32.50 4.86	6.48
22 11 16 00-0987	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	40.39 6.85	9.07
22 11 16 00-0988	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	49.56 9.22	12.31
22 11 16 00-0989	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
22 11 16 00-0990	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	72.44 13.34	17.77
22 11 16 00-0991	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	92.95 14.90	19.84
22 11 16 00-0992	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	149.04 16.96	22.57
22 11 16 00-0993	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	308.39 20.03	26.71
22 11 16 00-0994	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	463.00 24.66	32.81
22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>						
22 11 16 00-0996	EA			1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	22.45 4.86	6.48
22 11 16 00-0997	EA			3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	31.27 6.85	9.07
22 11 16 00-0998	EA			1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	44.94 9.22	12.31
22 11 16 00-0999	EA			1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	61.17 12.06	16.08
22 11 16 00-1000	EA			1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	72.85 13.34	17.77
22 11 16 00-1001	EA			2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	88.03 14.90	19.84
22 11 16 00-1002	EA			2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	129.17 16.96	22.57
22 11 16 00-1003	EA			3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	154.60 20.03	26.71
22 11 16 00-1004	EA			4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	230.69 24.66	32.81
22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0913)</small>						



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	24.82	6.48
<i>For Work In Restricted Working Space, Add</i>	4.86	
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	32.02	9.07
<i>For Work In Restricted Working Space, Add</i>	6.85	
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	45.14	12.31
<i>For Work In Restricted Working Space, Add</i>	9.22	
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	61.87	16.08
<i>For Work In Restricted Working Space, Add</i>	12.06	
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	69.67	17.77
<i>For Work In Restricted Working Space, Add</i>	13.34	
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	85.44	19.84
<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters	130.67	22.57
<i>For Work In Restricted Working Space, Add</i>	16.96	
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	180.83	26.71
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	275.29	32.81
<i>For Work In Restricted Working Space, Add</i>	24.66	
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	20.10	5.97
<i>For Work In Restricted Working Space, Add</i>	4.43	
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	28.25	8.30
<i>For Work In Restricted Working Space, Add</i>	6.22	
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	37.99	11.15
<i>For Work In Restricted Working Space, Add</i>	8.36	
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	51.65	14.66
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	59.47	16.21
<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	67.20	18.03
<i>For Work In Restricted Working Space, Add</i>	13.54	
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	104.27	20.49
<i>For Work In Restricted Working Space, Add</i>	15.41	
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	114.13	24.25
<i>For Work In Restricted Working Space, Add</i>	18.21	
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	144.71	29.83
<i>For Work In Restricted Working Space, Add</i>	22.41	
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	233.06	38.00
<i>For Work In Restricted Working Space, Add</i>	28.48	
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	404.41	49.80
<i>For Work In Restricted Working Space, Add</i>	37.35	
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	40.42	7.13
<i>For Work In Restricted Working Space, Add</i>	5.33	
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	48.65	9.98
<i>For Work In Restricted Working Space, Add</i>	7.47	
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	57.95	13.36
<i>For Work In Restricted Working Space, Add</i>	10.04	
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	101.43	17.51
<i>For Work In Restricted Working Space, Add</i>	13.15	
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	107.14	19.45
<i>For Work In Restricted Working Space, Add</i>	14.55	
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	151.50	21.66
<i>For Work In Restricted Working Space, Add</i>	16.26	
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	263.34	24.64
<i>For Work In Restricted Working Space, Add</i>	18.48	
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	377.76	29.18
<i>For Work In Restricted Working Space, Add</i>	21.86	
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	607.90	35.80
<i>For Work In Restricted Working Space, Add</i>	26.88	
22 11 16 00-1037 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	813.85	45.51
<i>For Work In Restricted Working Space, Add</i>	34.16	
22 11 16 00-1038 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	1,004.44	59.78
<i>For Work In Restricted Working Space, Add</i>	44.82	
22 11 16 00-1039 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	17.63	6.10
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 11 16 00-1041 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	23.57	7.65
<i>For Work In Restricted Working Space, Add</i>	3.50	
22 11 16 00-1042 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	35.67	9.60
<i>For Work In Restricted Working Space, Add</i>	4.39	
22 11 16 00-1043 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	41.34	7.26
<i>For Work In Restricted Working Space, Add</i>	5.48	
22 11 16 00-1044 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	43.75	8.04
<i>For Work In Restricted Working Space, Add</i>	6.07	
22 11 16 00-1045 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	60.43	9.07
<i>For Work In Restricted Working Space, Add</i>	6.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	93.84 7.70	10.24
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	100.08 9.10	12.19
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	154.97 11.20	14.91
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	340.15 14.24	18.93
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	438.06 18.67	24.90
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	32.02 3.54	4.67
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	38.27 4.98	6.61
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	46.45 6.69	8.94
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	54.15 8.79	11.67
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	57.84 9.73	12.97
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	69.85 10.82	14.40
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	93.87 12.33	16.47
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	106.04 14.55	19.45
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	132.69 17.93	23.86
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	190.61 22.80	30.34
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	358.19 29.88	39.81
22 11 16 00-1063			Cross-Linked Polyethylene Tubing, ASTM F877 <small>(22 11 16)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1064			Cross-Linked Polyethylene Tubing <small>(22 11 16 00-1063)</small>		
22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.08 1.22	
22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.52 1.32	
22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	6.81 1.43	
22 11 16 00-1068	LF		1" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	8.55 1.51	
22 11 16 00-1069			Cross-Linked Polyethylene Forged Brass PEX Fittings <small>(22 11 16 00-1063)</small> Note: Aboveground, domestic water usage.		
22 11 16 00-1070			Male Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1071	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.46 6.34	
22 11 16 00-1072	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.50 6.76	
22 11 16 00-1073	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1074	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.55 7.61	
22 11 16 00-1075	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.14 7.18	
22 11 16 00-1076	EA		1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.86 8.45	
22 11 16 00-1077			Female Adapters <small>(22 11 16 00-1069)</small>		
22 11 16 00-1078	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.12 6.76	
22 11 16 00-1079	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1080	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.27 7.61	
22 11 16 00-1081	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.86 7.18	
22 11 16 00-1082	EA		1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.64 8.45	
22 11 16 00-1083			Tube Adapters <small>(22 11 16 00-1069)</small>		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1084	EA		3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing	23.93	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1085	EA		1/2" Forged Brass Tube Adapter For PEX Tubing	25.34	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1086	EA		3/4" Forged Brass Tube Adapter For PEX Tubing	30.53	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1087	EA		1" Forged Brass Tube Adapter For PEX Tubing	39.27	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1088			Plugs <small>(22 11 16 00-1069)</small>		
22 11 16 00-1089	EA		3/8" Forged Brass Plug For PEX Tubing	12.04	
			<i>For Work In Restricted Working Space, Add</i>	2.96	
22 11 16 00-1090	EA		1/2" Forged Brass Plug For PEX Tubing	13.44	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 11 16 00-1091	EA		3/4" Forged Brass Plug For PEX Tubing	15.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-1092	EA		1" Forged Brass Plug For PEX Tubing	19.27	
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 11 16 00-1093			Tees <small>(22 11 16 00-1069)</small>		
22 11 16 00-1094	EA		3/8" Forged Brass Tee For PEX Tubing	34.14	
			<i>For Work In Restricted Working Space, Add</i>	8.87	
22 11 16 00-1095	EA		1/2" Forged Brass Tee For PEX Tubing	38.36	
			<i>For Work In Restricted Working Space, Add</i>	10.14	
22 11 16 00-1096	EA		3/4" Forged Brass Tee For PEX Tubing	45.69	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1097	EA		1" Forged Brass Tee For PEX Tubing	58.69	
			<i>For Work In Restricted Working Space, Add</i>	12.68	
22 11 16 00-1098	EA		1/2" Forged Brass Reducing Tee For PEX Tubing	36.95	
			<i>For Work In Restricted Working Space, Add</i>	9.72	
22 11 16 00-1099	EA		3/4" Forged Brass Reducing Tee For PEX Tubing	42.88	
			<i>For Work In Restricted Working Space, Add</i>	10.56	
22 11 16 00-1100	EA		1" Forged Brass Reducing Tee For PEX Tubing	53.21	
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 11 16 00-1101			Couplings <small>(22 11 16 00-1069)</small>		
22 11 16 00-1102	EA		3/8" Forged Brass Coupling For PEX Tubing	22.06	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1103	EA		1/2" Forged Brass Coupling For PEX Tubing	25.03	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1104	EA		3/4" Forged Brass Coupling For PEX Tubing	28.62	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1105	EA		1" Forged Brass Coupling For PEX Tubing	35.06	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1106	EA		3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing	27.21	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1107	EA		1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing	33.65	
			<i>For Work In Restricted Working Space, Add</i>	8.03	
22 11 16 00-1108			Fitting Reducers <small>(22 11 16 00-1069)</small>		
22 11 16 00-1109	EA		3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing	24.40	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
22 11 16 00-1110	EA		1/2" Forged Brass Fitting Reducer For PEX Tubing	25.81	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1111	EA		3/4" Forged Brass Fitting Reducer For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1112	EA		1" Forged Brass Fitting Reducer For PEX Tubing	44.60	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 11 16 00-1113			90 Degree Elbows <small>(22 11 16 00-1069)</small>		
22 11 16 00-1114	EA		3/8" Forged Brass 90 Degree Elbow For PEX Tubing	23.46	
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 11 16 00-1115	EA		1/2" Forged Brass 90 Degree Elbow For PEX Tubing	26.28	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1116	EA		3/4" Forged Brass 90 Degree Elbow For PEX Tubing	31.46	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1117	EA		3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing	30.05	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 16 00-1118	EA		1/2" Drop 90 Degree Elbow For PEX Tubing	36.01	
			<i>For Work In Restricted Working Space, Add</i>	6.76	
22 11 16 00-1119	EA		3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing	40.22	
			<i>For Work In Restricted Working Space, Add</i>	7.61	
22 11 16 00-1120	EA		3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing	38.81	
			<i>For Work In Restricted Working Space, Add</i>	7.18	
22 11 19			Domestic Water Piping Specialties <small>(22 11)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0001 Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002 General Purpose Hose <small>(22 11 19 00-0001)</small>		
<small>Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.</small>		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.28	2.80
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	8.28	2.80
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.65	2.80
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.71	2.80
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	12.42	4.21
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	18.81	4.21
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	20.54	5.61
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	36.29	5.61
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small>		
<small>Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.</small>		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	46.49	5.61
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	54.53	5.61
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	76.51	6.89
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	106.49	9.32
22 11 19 00-0016 Chemical Resistant Rubber Hoses <small>(22 11 19 00-0001)</small>		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,268.47	316.33
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,685.05	316.33
22 11 19 00-0019 Water Pump Hose <small>(22 11 19 00-0001)</small>		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose.....	447.80	85.68
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose.....	469.19	85.68
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling <small>(22 11 19 00-0001)</small>		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	32.60	11.78
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	34.72	12.63
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	37.11	13.46
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	42.91	15.14
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling.....	50.71	18.51
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling.....	60.38	22.16
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling.....	78.40	29.16
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling.....	98.42	36.46
22 11 19 00-0031 Worm-Drive Hose Clamp <small>(22 11 19 00-0001)</small>		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	14.41	4.21
22 11 19 00-0033 EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	15.25	4.21
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	16.16	4.21
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	17.20	4.21
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	18.41	4.21
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	19.90	5.61
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	21.49	5.61
22 11 19 00-0039 Trap Primer And Accessories <small>(22 11 19)</small>		
22 11 19 00-0040 Trap Primer <small>(22 11 19 00-0039)</small>		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	283.96	21.13
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	175.10	14.09
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	169.94	14.09
22 11 19 00-0044 Trap Primer Distribution Unit <small>(22 11 19 00-0039)</small>		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U).....	160.44	28.17
<small>Note: Can be used for two, three or four drains.</small>		
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4).....	174.31	28.17
<small>Note: Can be used for two, three or four drains.</small>		
22 11 19 00-0047 Trap Primer Manifold <small>(22 11 19 00-0039)</small>		
22 11 19 00-0048 EA Two Outlet Manifold.....	229.82	37.88
22 11 19 00-0049 EA Four Outlet Manifold.....	341.85	43.10
22 11 19 00-0050 EA Six Outlet Manifold.....	450.23	45.64
22 11 19 00-0051 EA Eight Outlet Manifold.....	564.74	53.52
22 11 19 00-0052 Sewage Air Release Valves <small>(22 11 19)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0054 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	873.30	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0055 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,084.49	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0056 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,374.93	108.49
For Back Flush Attachment, Add	650.00	
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0058 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....	891.64	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0059 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....	1,721.71	51.43
For Back Flush Attachment, Add	650.00	
22 11 19 00-0060 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....	2,079.66	85.94
For Back Flush Attachment, Add	650.00	
22 11 19 00-0061 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,069.46	108.49
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves <small>(22 11 19 00-0052)</small> Note: Stainless steel float.		
22 11 19 00-0063 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	1,873.05	51.43
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,572.41	51.43
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,024.37	85.94
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	3,700.04	108.49
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers <small>(22 11 19)</small> Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	114.35	35.21
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	130.68	39.43
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	248.95	45.07
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	385.76	52.11
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	460.03	57.74
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	665.25	70.43
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,694.29	88.03
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers <small>(22 11 19)</small> Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	300.37	35.21
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	266.92	39.43
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	375.48	45.07
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	664.13	52.11
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	807.41	57.74
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	820.85	70.43
22 11 19 00-0082 Bellows Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	267.29	16.84
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	516.13	20.38
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	751.78	20.38
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,823.38	20.38
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	2,052.91	20.38
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	2,513.33	20.38
22 11 19 00-0089 Piston Type Water Hammer Arrestors <small>(22 11 19)</small>		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors <small>(22 11 19 00-0089)</small>		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	161.00	9.39
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	306.11	10.83
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	453.03	11.74
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,108.49	15.15
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,350.25	18.78
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,536.05	20.38



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0097		Wall Hydrants <small>(22 11 19)</small> Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0098		Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0099	EA	6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	780.00	35.21
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0100	EA	12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	826.10	42.26
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0101	EA	18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	854.95	50.85
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0102		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0103	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	812.28	59.15
		<i>For Cast Bronze Box, Add</i>	38.41	
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0104		Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0097)</small> Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0105	EA	3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	449.95	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0106	EA	4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0107	EA	6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0108	EA	8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	547.20	43.67
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0109	EA	10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0110	EA	12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	569.83	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0111	EA	18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	637.52	88.03
		<i>For 1" NPT Outlet, Add</i>	90.52	
22 11 19 00-0112		Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0097)</small> Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0113	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	402.66	35.21
22 11 19 00-0114	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	436.59	35.21
22 11 19 00-0115	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	441.21	35.21
22 11 19 00-0116	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	492.10	35.21
22 11 19 00-0117	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	686.74	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0118	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	706.79	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0119	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	706.79	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0120	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	754.60	49.30
		Note: Includes hot and cold hose connections.		
22 11 19 00-0121		Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		
22 11 19 00-0122		Dryer Vent Kit <small>(22 11 19 00-0121)</small> Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0123	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	97.94	18.31
22 11 19 00-0124		Washer Boxes And Dryer Vents <small>(22 11 19 00-0121)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125	EA	2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	347.91	28.17
22 11 19 00-0126		Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	174.76	28.17
22 11 19 00-0128	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	214.53	28.17
22 11 19 00-0129	EA	Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	236.43	28.17
22 11 19 00-0130		Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0131		Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0132	EA	1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	483.55	34.09
22 11 19 00-0133	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	147.78	34.09
22 11 19 00-0134	EA	1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	281.62	34.09
22 11 19 00-0135	EA	3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	326.21	45.93
22 11 19 00-0136		Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small>		
		Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137	EA	3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,294.59	49.17
22 11 19 00-0138	EA	3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,455.39	60.56
22 11 19 00-0139	EA	1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	1,748.66	70.45
22 11 19 00-0140	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,259.38	74.04
22 11 19 00-0141	EA	2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,031.90	96.06
22 11 19 00-0142		High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small>		
		Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143	EA	3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	3,279.05	75.73
22 11 19 00-0144	EA	1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080)	4,263.36	88.05
22 11 19 00-0145	EA	1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	4,967.81	92.55
22 11 19 00-0146	EA	2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	5,511.10	120.07
22 11 19 00-0147		Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0130)</small>		
		Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148	EA	3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	945.02	49.17
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149	EA	1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,113.77	60.55
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150	EA	1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,367.11	70.45
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151	EA	1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,666.24	74.06
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152	EA	2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	2,469.37	96.06
		Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0153		Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0130)</small>		
		Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154	EA	3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,155.11	70.43
22 11 19 00-0155	EA	1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,351.39	88.73
22 11 19 00-0156	EA	1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,697.42	107.04
22 11 19 00-0157	EA	1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,075.22	125.35
22 11 19 00-0158	EA	2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	4,834.97	164.79
22 11 19 00-0159	EA	2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,691.36	187.90
22 11 19 00-0160		Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0130)</small>		
22 11 19 00-0161	EA	2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	4,368.52	96.08
22 11 19 00-0162		Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0163		Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0162)</small>		
22 11 19 00-0164		Threaded Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0165		Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0164)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0166	EA	1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	387.69	37.74
		For Work In Restricted Working Space, Add	28.31	
		For Owner Furnished Material, Deduct	-293.33	
22 11 19 00-0167	EA	3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	464.94	53.52
		For Work In Restricted Working Space, Add	40.14	
		For Owner Furnished Material, Deduct	-331.14	
22 11 19 00-0168	EA	1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	539.09	65.35
		For Work In Restricted Working Space, Add	49.01	
		For Owner Furnished Material, Deduct	-375.71	
22 11 19 00-0169	EA	1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	742.12	76.06
		For Work In Restricted Working Space, Add	57.04	
		For Owner Furnished Material, Deduct	-551.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0170	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	912.91	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-696.01	
22 11 19 00-0171	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,062.00	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-780.32	
22 11 19 00-0172			Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer		
			<small>(22 11 19 00-0164)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0173	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	471.63	37.74
			<i>For Work In Restricted Working Space, Add</i>	28.31	
			<i>For Owner Furnished Material, Deduct</i>	-377.27	
22 11 19 00-0174	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	587.88	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-454.08	
22 11 19 00-0175	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	689.81	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-526.43	
22 11 19 00-0176	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	956.86	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-766.72	
22 11 19 00-0177	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,165.83	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-948.93	
22 11 19 00-0178	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,411.19	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,129.51	
22 11 19 00-0179			Flanged Double Check Valve Assemblies <small>(22 11 19 00-0163)</small>		
22 11 19 00-0180			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0181	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	4,968.17	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-4,553.21	
22 11 19 00-0182	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	5,460.25	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-4,999.90	
22 11 19 00-0183			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0184	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	5,430.98	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,016.02	
22 11 19 00-0185	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	6,231.59	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-5,771.24	
22 11 19 00-0186			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	5,001.54	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-4,586.60	
22 11 19 00-0188	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	3,860.42	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-3,400.06	
22 11 19 00-0189	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,034.20	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-5,342.97	
22 11 19 00-0190	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	9,186.98	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-7,895.86	
22 11 19 00-0191	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	20,713.74	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.10	
			<i>For Owner Furnished Material, Deduct</i>	-18,776.74	
22 11 19 00-0192	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	26,555.34	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-24,249.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0193	Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0179)</small>	
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	7,011.56	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-6,320.39	
22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	11,643.20	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-10,352.08	
22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	30,745.65	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-28,440.06	
22 11 19 00-0197	Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>	
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	5,304.32	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-4,889.38	
22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	5,829.80	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-5,369.45	
22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,388.73	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,697.56	
22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	10,694.57	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-9,403.45	
22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	21,965.45	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-20,028.76	
22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	28,170.81	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-25,865.22	
22 11 19 00-0204	Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>	
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,212.60	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-2,797.66	
22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	3,537.94	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-3,077.59	
22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,048.69	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-3,357.52	
22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	6,541.07	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-5,249.95	
22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	12,316.29	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-10,379.60	
22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	13,412.50	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-11,106.91	
22 11 19 00-0211	N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small>	
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0212 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,205.27	311.22
For Work In Restricted Working Space, Add	124.48	
For Owner Furnished Material, Deduct	-3,790.33	
22 11 19 00-0213 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	4,530.61	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,070.26	
22 11 19 00-0214 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	5,707.48	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,016.31	
22 11 19 00-0215 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	9,317.96	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-8,026.84	



Plumbing	22
Plumbing Piping	22 10
Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0216 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	16,431.91	1,072.10
<i>For Work In Restricted Working Space, Add</i>	581.01	
<i>For Owner Furnished Material, Deduct</i>	-14,495.22	
22 11 19 00-0217 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	19,554.04	1,268.07
<i>For Work In Restricted Working Space, Add</i>	691.68	
<i>For Owner Furnished Material, Deduct</i>	-17,248.45	
22 11 19 00-0218 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves <small>(22 11 19 00-0179)</small>		
<small>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).</small>		
22 11 19 00-0219 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,015.16	311.22
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-2,600.22	
22 11 19 00-0220 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,349.48	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-2,889.13	
22 11 19 00-0221 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,869.09	518.70
<i>For Work In Restricted Working Space, Add</i>	207.35	
<i>For Owner Furnished Material, Deduct</i>	-3,177.92	
22 11 19 00-0222 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	6,399.99	714.73
<i>For Work In Restricted Working Space, Add</i>	387.34	
<i>For Owner Furnished Material, Deduct</i>	-5,108.87	
22 11 19 00-0223 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	12,180.33	1,072.10
<i>For Work In Restricted Working Space, Add</i>	581.01	
<i>For Owner Furnished Material, Deduct</i>	-10,243.64	
22 11 19 00-0224 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	13,792.12	1,268.07
<i>For Work In Restricted Working Space, Add</i>	691.68	
<i>For Owner Furnished Material, Deduct</i>	-11,486.53	
22 11 19 00-0225 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small>		
<small>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).</small>		
22 11 19 00-0226 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,924.60	311.22
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-3,509.66	
22 11 19 00-0227 EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,249.94	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-3,789.59	
22 11 19 00-0228 EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,427.15	518.70
<i>For Work In Restricted Working Space, Add</i>	207.35	
<i>For Owner Furnished Material, Deduct</i>	-4,735.98	
22 11 19 00-0229 EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	9,019.38	714.73
<i>For Work In Restricted Working Space, Add</i>	387.34	
<i>For Owner Furnished Material, Deduct</i>	-7,728.26	
22 11 19 00-0230 EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	15,979.99	1,072.10
<i>For Work In Restricted Working Space, Add</i>	581.01	
<i>For Owner Furnished Material, Deduct</i>	-14,043.30	
22 11 19 00-0231 EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	19,100.79	1,268.07
<i>For Work In Restricted Working Space, Add</i>	691.68	
<i>For Owner Furnished Material, Deduct</i>	-16,795.20	
22 11 19 00-0232 Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0179)</small>		
<small>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).</small>		
22 11 19 00-0233 EA 2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,482.11	311.22
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-3,067.17	
22 11 19 00-0234 EA 3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,807.45	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-3,347.10	
22 11 19 00-0235 EA 4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,318.20	518.70
<i>For Work In Restricted Working Space, Add</i>	207.35	
<i>For Owner Furnished Material, Deduct</i>	-3,627.03	
22 11 19 00-0236 EA 6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	6,817.37	714.73
<i>For Work In Restricted Working Space, Add</i>	387.34	
<i>For Owner Furnished Material, Deduct</i>	-5,526.25	
22 11 19 00-0237 EA 8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	12,592.59	1,072.10
<i>For Work In Restricted Working Space, Add</i>	581.01	
<i>For Owner Furnished Material, Deduct</i>	-10,655.90	
22 11 19 00-0238 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs <small>(22 11 19 00-0179)</small>		
<small>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).</small>		
22 11 19 00-0239 EA 2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	4,474.78	311.22
<i>For Work In Restricted Working Space, Add</i>	124.48	
<i>For Owner Furnished Material, Deduct</i>	-4,059.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0240 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,800.12 138.11 -4,339.77	350.13
22 11 19 00-0241 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,976.98 207.35 -5,285.81	518.70
22 11 19 00-0242 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,594.32 387.34 -8,303.20	714.73
22 11 19 00-0243 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,592.59 581.01 -10,655.90	1,072.10
22 11 19 00-0244 Grooved Double Check Valve Assemblies (22 11 19 00-0163)		
22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,015.16 124.48 -2,600.22	165.99
22 11 19 00-0247 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,349.48 138.11 -2,889.13	184.14
22 11 19 00-0248 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,924.60 124.48 -3,509.66	165.99
22 11 19 00-0250 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,249.94 138.11 -3,789.59	184.14
22 11 19 00-0251 Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0162)		
22 11 19 00-0252 Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0251)		
22 11 19 00-0253 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0254 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	422.86 24.51 -341.17	32.67
22 11 19 00-0255 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	447.87 27.04 -357.73	36.05
22 11 19 00-0256 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	518.13 28.31 -423.77	37.74
22 11 19 00-0257 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	698.18 40.14 -564.38	53.52
22 11 19 00-0258 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	829.90 49.01 -666.52	65.35
22 11 19 00-0259 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,235.71 57.04 -1,045.57	76.06
22 11 19 00-0260 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,311.65 65.07 -1,094.75	87.32
22 11 19 00-0261 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,580.77 84.50 -1,299.09	112.67
22 11 19 00-0262 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	464.16 24.51 -382.47	32.67
22 11 19 00-0264 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	491.40 27.04 -401.26	36.05



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0265	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	577.78	53.52
			<i>For Work In Restricted Working Space, Add</i>	28.31	
			<i>For Owner Furnished Material, Deduct</i>	-483.42	
22 11 19 00-0266	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	791.93	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0267	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	947.11	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0268	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,395.56	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0269	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,537.24	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0270	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,857.54	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0271			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	698.18	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-564.38	
22 11 19 00-0273	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	829.90	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-666.52	
22 11 19 00-0274	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,235.71	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,045.57	
22 11 19 00-0275	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,311.65	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,094.75	
22 11 19 00-0276	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series)	1,580.77	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,299.09	
22 11 19 00-0277			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	791.93	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-658.13	
22 11 19 00-0279	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	947.11	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-783.73	
22 11 19 00-0280	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,395.56	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,205.42	
22 11 19 00-0281	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,537.24	87.32
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For Owner Furnished Material, Deduct</i>	-1,320.34	
22 11 19 00-0282	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,857.54	112.67
			<i>For Work In Restricted Working Space, Add</i>	84.50	
			<i>For Owner Furnished Material, Deduct</i>	-1,575.86	
22 11 19 00-0283			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,394.45	53.52
			<i>For Work In Restricted Working Space, Add</i>	40.14	
			<i>For Owner Furnished Material, Deduct</i>	-1,260.65	
22 11 19 00-0285	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT)	1,652.17	65.35
			<i>For Work In Restricted Working Space, Add</i>	49.01	
			<i>For Owner Furnished Material, Deduct</i>	-1,488.79	
22 11 19 00-0286	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,522.55	76.06
			<i>For Work In Restricted Working Space, Add</i>	57.04	
			<i>For Owner Furnished Material, Deduct</i>	-2,332.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT)	2,730.76	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-2,513.86	
22 11 19 00-0288 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT)	3,177.56	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-2,895.88	
22 11 19 00-0289 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	1,863.05	53.52
<i>For Work In Restricted Working Space, Add</i>	40.14	
<i>For Owner Furnished Material, Deduct</i>	-1,729.25	
22 11 19 00-0291 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S)	2,216.07	65.35
<i>For Work In Restricted Working Space, Add</i>	49.01	
<i>For Owner Furnished Material, Deduct</i>	-2,052.69	
22 11 19 00-0292 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,359.58	76.06
<i>For Work In Restricted Working Space, Add</i>	57.04	
<i>For Owner Furnished Material, Deduct</i>	-3,169.44	
22 11 19 00-0293 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	3,672.85	87.32
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Owner Furnished Material, Deduct</i>	-3,455.95	
22 11 19 00-0294 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S)	4,370.50	112.67
<i>For Work In Restricted Working Space, Add</i>	84.50	
<i>For Owner Furnished Material, Deduct</i>	-4,088.82	
22 11 19 00-0295 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	4,580.20	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,165.24	
22 11 19 00-0298 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series)	5,158.62	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-4,698.27	
22 11 19 00-0299 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0301 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	
22 11 19 00-0302 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	4,907.16	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-4,492.20	
22 11 19 00-0304 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series)	5,702.01	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,241.66	
22 11 19 00-0305 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	5,434.43	311.22
<i>For Work In Restricted Working Space, Add</i>	124.49	
<i>For Owner Furnished Material, Deduct</i>	-5,019.47	
22 11 19 00-0307 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series)	6,151.00	350.13
<i>For Work In Restricted Working Space, Add</i>	138.11	
<i>For Owner Furnished Material, Deduct</i>	-5,690.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0308			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,018.12	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.49	
			<i>For Owner Furnished Material, Deduct</i>	-5,603.16	
22 11 19 00-0310	EA		3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series)	6,958.03	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-6,497.68	
22 11 19 00-0311			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,770.31	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,355.37	
22 11 19 00-0313	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	8,824.23	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,363.87	
22 11 19 00-0314	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,146.93	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-10,455.70	
22 11 19 00-0315	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	16,999.48	714.73
			<i>For Work In Restricted Working Space, Add</i>	542.31	
			<i>For Owner Furnished Material, Deduct</i>	-15,191.79	
22 11 19 00-0316	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	28,117.72	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	813.46	
			<i>For Owner Furnished Material, Deduct</i>	-25,406.18	
22 11 19 00-0317	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	35,955.51	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-33,649.92	
22 11 19 00-0318			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0319	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	8,363.20	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,948.26	
22 11 19 00-0320	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,448.20	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,987.85	
22 11 19 00-0321	EA		4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,103.56	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.35	
			<i>For Owner Furnished Material, Deduct</i>	-11,412.39	
22 11 19 00-0322	EA		6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	18,283.64	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,992.52	
22 11 19 00-0323	EA		8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	29,566.06	1,072.10
			<i>For Work In Restricted Working Space, Add</i>	581.01	
			<i>For Owner Furnished Material, Deduct</i>	-27,629.37	
22 11 19 00-0324	EA		10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	40,037.26	1,268.07
			<i>For Work In Restricted Working Space, Add</i>	691.68	
			<i>For Owner Furnished Material, Deduct</i>	-37,731.67	
22 11 19 00-0325			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	8,258.44	311.22
			<i>For Work In Restricted Working Space, Add</i>	124.48	
			<i>For Owner Furnished Material, Deduct</i>	-7,843.50	
22 11 19 00-0327	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	9,383.74	350.13
			<i>For Work In Restricted Working Space, Add</i>	138.11	
			<i>For Owner Furnished Material, Deduct</i>	-8,923.38	
22 11 19 00-0328	EA		4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,842.29	518.70
			<i>For Work In Restricted Working Space, Add</i>	207.37	
			<i>For Owner Furnished Material, Deduct</i>	-11,151.06	
22 11 19 00-0329	EA		6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	17,496.57	714.73
			<i>For Work In Restricted Working Space, Add</i>	387.34	
			<i>For Owner Furnished Material, Deduct</i>	-16,205.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0330 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	29,037.41	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-27,100.72	
22 11 19 00-0331 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	38,197.58	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-35,891.99	
22 11 19 00-0332 Double Check Detector Assemblies (22 11 19 00-0162)		
22 11 19 00-0333 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0332)		
22 11 19 00-0334 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,243.16	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-5,782.81	
22 11 19 00-0336 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	6,608.16	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,916.99	
22 11 19 00-0337 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,974.54	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-7,683.42	
22 11 19 00-0338 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	15,824.91	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-13,888.22	
22 11 19 00-0339 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	21,286.10	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-18,980.51	
22 11 19 00-0340 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	4,699.07	311.22
For Work In Restricted Working Space, Add	124.49	
For Owner Furnished Material, Deduct	-4,284.11	
22 11 19 00-0342 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,024.10	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,563.75	
22 11 19 00-0343 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,541.46	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-4,850.29	
22 11 19 00-0344 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	7,589.18	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-6,298.06	
22 11 19 00-0345 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	13,320.99	1,072.10
For Work In Restricted Working Space, Add	581.01	
For Owner Furnished Material, Deduct	-11,384.30	
22 11 19 00-0346 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	15,714.77	1,268.07
For Work In Restricted Working Space, Add	691.68	
For Owner Furnished Material, Deduct	-13,409.18	
22 11 19 00-0347 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0348 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,968.63	311.22
For Work In Restricted Working Space, Add	124.49	
For Owner Furnished Material, Deduct	-4,553.67	
22 11 19 00-0349 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,293.66	350.13
For Work In Restricted Working Space, Add	138.11	
For Owner Furnished Material, Deduct	-4,833.31	
22 11 19 00-0350 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,810.97	518.70
For Work In Restricted Working Space, Add	207.35	
For Owner Furnished Material, Deduct	-5,119.80	
22 11 19 00-0351 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,865.48	714.73
For Work In Restricted Working Space, Add	387.34	
For Owner Furnished Material, Deduct	-6,574.36	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0352	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,989.49 581.01 -11,052.80	1,072.10
22 11 19 00-0353			Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0355	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,613.96 124.49	311.22
22 11 19 00-0356	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	4,939.02 138.11	350.13
22 11 19 00-0357	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	5,456.39 207.35	518.70
22 11 19 00-0358	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	7,504.10 387.34	714.73
22 11 19 00-0359	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	13,235.97 581.01	1,072.10
22 11 19 00-0360	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series) <i>For Work In Restricted Working Space, Add</i>	15,629.64 691.68	1,268.07
22 11 19 00-0361			Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0353)</small> Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0362	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	4,883.50 124.49	311.22
22 11 19 00-0363	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,208.53 138.11	350.13
22 11 19 00-0364	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	5,725.90 207.35	518.70
22 11 19 00-0365	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	7,780.34 387.34	714.73
22 11 19 00-0366	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series) <i>For Work In Restricted Working Space, Add</i>	13,512.27 581.01	1,072.10
22 11 19 00-0367			Flanged Double Check Detector Assemblies <small>(22 11 19 00-0332)</small>		
22 11 19 00-0368			Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0367)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0369	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,459.95 124.49 -4,044.99	311.22
22 11 19 00-0370	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,384.44 138.11 -4,924.09	350.13
22 11 19 00-0371	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,033.34 207.35 -5,342.17	518.70
22 11 19 00-0372	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,684.96 387.34 -6,393.84	714.73
22 11 19 00-0373	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,494.20 581.01 -11,557.51	1,072.10
22 11 19 00-0374	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	18,100.69 691.68 -15,795.10	1,268.07
22 11 19 00-0375	EA		12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	24,065.32 830.01 -21,298.62	1,521.68
22 11 19 00-0376			Backflow Preventer Accessories <small>(22 11 19 00-0162)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0377 Air Gap <small>(22 11 19 00-0376)</small>		
22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer	113.27	17.61
22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	139.04	21.13
22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	253.33	28.17
22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer	496.78	49.30
22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer	539.03	70.43
22 11 19 00-0383 Brass Test Cocks <small>(22 11 19 00-0376)</small>		
22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock.....	46.03	7.04
22 11 19 00-0385 Backflow Valve Enclosures <small>(22 11 19 00-0162)</small>		
22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	863.06	126.76
For Heated Enclosure, Add	97.77	
22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,045.44	126.76
For Heated Enclosure, Add	125.13	
22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,301.45	116.71
For Heated Enclosure, Add	166.04	
22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,371.04	155.61
For Heated Enclosure, Add	166.75	
22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,432.89	155.61
For Heated Enclosure, Add	176.03	
22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,673.95	155.61
For Heated Enclosure, Add	212.19	
22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,680.29	155.61
For Heated Enclosure, Add	213.14	
22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,091.03	155.61
For Heated Enclosure, Add	274.75	
22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,748.58	233.41
For Heated Enclosure, Add	653.93	
22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,821.31	233.41
For Heated Enclosure, Add	964.84	
22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	6,488.28	233.41
For Heated Enclosure, Add	914.89	
22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	7,807.54	272.32
For Heated Enclosure, Add	1,103.05	
22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	452.81	33.80
For Heated Enclosure, Add	79.29	
22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	620.91	33.80
For Heated Enclosure, Add	112.91	
22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	771.85	31.12
For Heated Enclosure, Add	144.00	
22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,155.64	31.12
For Heated Enclosure, Add	220.75	
22 11 19 00-0404 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,977.20	58.35
For Heated Enclosure, Add	575.99	
22 11 19 00-0405 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,050.83	58.35
For Heated Enclosure, Add	790.71	
22 11 19 00-0406 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	2,710.77	58.35
For Heated Enclosure, Add	522.70	
22 11 19 00-0407 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	3,062.84	58.35
For Heated Enclosure, Add	593.12	
22 11 19 00-0408 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	4,770.82	58.35
For Heated Enclosure, Add	934.71	
22 11 19 00-0409 Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0385)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0410 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,150.69	253.52
For Heated Enclosure, Add	859.22	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0411 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure	6,764.42	253.52
For Heated Enclosure, Add	951.28	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0412 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	4,823.11	233.41
For Heated Enclosure, Add	665.11	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	
22 11 19 00-0413 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure	5,276.67	233.41
For Heated Enclosure, Add	733.15	
For One 24" Fluorescent Light Fixture, Add	663.22	
For Two 24" Fluorescent Light Fixture, Add	1,186.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,162.81	311.22
			<i>For Heated Enclosure, Add</i>	846.62	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,889.14	311.22
			<i>For Heated Enclosure, Add</i>	955.57	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,889.14	311.22
			<i>For Heated Enclosure, Add</i>	955.57	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,593.27	311.22
			<i>For Heated Enclosure, Add</i>	1,061.19	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	5,723.71	272.32
			<i>For Heated Enclosure, Add</i>	790.48	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	6,697.25	311.22
			<i>For Heated Enclosure, Add</i>	926.78	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,796.26	311.22
			<i>For Heated Enclosure, Add</i>	1,091.63	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,551.83	330.67
			<i>For Heated Enclosure, Add</i>	1,200.11	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,781.68	359.15
			<i>For Heated Enclosure, Add</i>	1,227.46	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0423	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,724.00	380.28
			<i>For Heated Enclosure, Add</i>	1,363.53	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0424	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,036.91	350.13
			<i>For Heated Enclosure, Add</i>	1,418.01	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0425	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,320.50	311.22
			<i>For Heated Enclosure, Add</i>	1,020.27	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0426	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	7,791.50	311.22
			<i>For Heated Enclosure, Add</i>	1,090.92	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0427	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,803.99	330.67
			<i>For Heated Enclosure, Add</i>	1,237.93	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0428	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,641.13	350.13
			<i>For Heated Enclosure, Add</i>	1,508.64	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0429	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,310.58	155.61
			<i>For Heated Enclosure, Add</i>	1,309.06	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0430	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,158.82	155.61
			<i>For Heated Enclosure, Add</i>	1,581.43	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0431	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,795.66	233.41
			<i>For Heated Enclosure, Add</i>	1,526.96	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0432	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,514.56	233.41
			<i>For Heated Enclosure, Add</i>	1,775.06	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0433	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,554.40	233.41
			<i>For Heated Enclosure, Add</i>	1,635.90	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	
22 11 19 00-0434	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,488.98	272.32
			<i>For Heated Enclosure, Add</i>	1,916.37	
			<i>For One 24" Fluorescent Light Fixture, Add</i>	663.22	
			<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,186.81	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0435 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,553.82 1,916.37 663.22 1,186.81	233.41
22 11 19 00-0436 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	16,052.97 2,281.51 663.22 1,186.81	233.41
22 11 19 00-0437 Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0438 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0439 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	70.87	14.09
22 11 19 00-0440 EA 3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	82.69	15.50
22 11 19 00-0441 EA 3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	26.42	10.56
22 11 19 00-0442 Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0437)		
22 11 19 00-0443 EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP)	224.24	43.10
22 11 19 00-0444 Antisiphon Freezeless Wall Faucet (22 11 19 00-0437)		
22 11 19 00-0445 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet	181.48	35.21
22 11 19 00-0446 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet	196.16	39.01
22 11 19 00-0447 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet	207.31	41.26
22 11 19 00-0448 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet	218.45	44.23
22 11 19 00-0449 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet	229.73	46.90
22 11 19 00-0450 Escutcheons (22 11 19)		
22 11 19 00-0451 Brass Escutcheons (22 11 19 00-0450)		
22 11 19 00-0452 Shallow Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	13.61	3.52
22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	14.48	3.52
22 11 19 00-0455 Deep Bell Brass Escutcheons (22 11 19 00-0451)		
22 11 19 00-0456 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.62	3.94
22 11 19 00-0457 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	15.65	3.94
22 11 19 00-0458 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0451)		
22 11 19 00-0459 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.68	3.52
22 11 19 00-0460 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.93	3.52
22 11 19 00-0461 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.30	3.52
22 11 19 00-0462 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.65	3.52
22 11 19 00-0463 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.10	4.22
22 11 19 00-0464 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.41	4.22
22 11 19 00-0465 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	29.48	4.65
22 11 19 00-0466 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.86	4.93
22 11 19 00-0467 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew	43.98	5.63
22 11 19 00-0468 Plastic Escutcheons (22 11 19 00-0450)		
22 11 19 00-0469 Split-Ring White Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0470 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0471 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	8.03	3.50
22 11 19 00-0472 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	9.20	3.92
22 11 19 00-0473 EA 1" IPS, Split-Ring White Plastic Escutcheon	9.99	4.21
22 11 19 00-0474 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.78	4.63
22 11 19 00-0475 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.55	4.91
22 11 19 00-0476 EA 2" IPS, Split-Ring White Plastic Escutcheon	13.07	5.61
22 11 19 00-0477 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	15.90	6.03
22 11 19 00-0478 EA 3" IPS, Split-Ring White Plastic Escutcheon	18.74	6.31
22 11 19 00-0479 EA 4" IPS, Split-Ring White Plastic Escutcheon	22.25	7.02
22 11 19 00-0480 Chrome Plate Plastic Escutcheons (22 11 19 00-0468)		
22 11 19 00-0481 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	9.78	3.50
22 11 19 00-0482 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	10.69	3.92
22 11 19 00-0483 EA 1" IPS, Chrome Plate Plastic Escutcheon	11.92	4.21
22 11 19 00-0484 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	13.14	4.63
22 11 19 00-0485 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	13.92	4.91
22 11 19 00-0486 EA 2" IPS, Chrome Plate Plastic Escutcheon	17.11	5.61
22 11 19 00-0487 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	23.18	6.03
22 11 19 00-0488 EA 3" IPS, Chrome Plate Plastic Escutcheon	24.12	6.31
22 11 19 00-0489 EA 4" IPS, Chrome Plate Plastic Escutcheon	25.95	7.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST				
22 11 19 00-0490			Stainless Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0491			Shallow Stainless Steel Escutcheons (22 11 19 00-0490)						
		EA	3/8" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	1/2" IPS, Shallow Stainless Steel Escutcheon.....	17.58	3.52				
		EA	3/4" IPS, Shallow Stainless Steel Escutcheon.....	23.98	3.94				
22 11 19 00-0495			Chrome Plated Steel Escutcheons (22 11 19 00-0490)						
22 11 19 00-0496			Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.79	3.50				
		EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.48	3.92				
		EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.32	4.21				
		EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.02	4.63				
		EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.73	4.91				
		EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.36	5.61				
		EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	18.20	6.03				
		EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.33	6.31				
		EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	23.60	6.73				
		EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	21.09	7.02				
		EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	26.97	7.71				
		EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	31.36	8.41				
22 11 19 00-0509			Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.09	3.50				
		EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.94	3.92				
		EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.68	4.21				
		EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	15.46	4.63				
		EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.39	4.91				
		EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	19.39	5.61				
		EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	22.22	6.03				
		EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	26.99	6.31				
		EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	32.96	6.73				
		EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	33.50	7.02				
		EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	54.66	7.71				
		EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	57.13	8.41				
22 11 19 00-0523			Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.47	3.94				
		EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.34	3.94				
		EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.08	3.94				
		EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.05	4.22				
		EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.91	4.65				
		EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.99	4.93				
22 11 19 00-0530			Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)						
		EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.58	3.52				
		EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.70	3.52				
		EA	1" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.30	4.22				
		EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.06	4.65				
		EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.13	4.93				
		EA	2" IPS, Shallow Chrome Plated Steel Escutcheon.....	12.62	5.63				
22 11 19 00-0538			Keyed, Recessed Valve Boxes (22 11 19)						
		EA	8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	241.55	42.07				
		EA	8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	264.04	42.07				
		EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	297.77	42.07				
		EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	303.33	56.09				
		EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	337.07	56.09				
		EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	347.19	56.09				
		EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	277.53	42.07				
		EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	327.01	42.07				
		EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	370.87	42.07				
		EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	366.31	56.09				
		EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	410.16	56.09				
		EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	427.03	56.09				
22 11 23			Domestic Water Pumps (22 11)						
22 11 23 13			Domestic Water Packaged Booster Pumps (22 11 23)						
			Note: Includes motor starter and controls.						



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0001	Simplex Domestic Water Packaged Booster Pumps And Tank ^(22 11 23 13)	
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,035.58	414.96
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	11,544.84	557.61
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,130.41	700.24
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank	12,677.82	842.89
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank	14,064.77	985.53
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	15,642.54	1,128.18
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank	16,762.36	1,270.82
22 11 23 13-0009	Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	30,031.82	1,678.34
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	36,035.38	1,783.25
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	42,063.27	1,888.15
22 11 23 13-0013	Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator ^(22 11 23 13)	
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	39,288.61	1,783.25
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	48,725.71	1,888.15
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	60,419.91	2,097.94
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	76,343.80	2,307.73
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	92,267.67	2,517.52
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	107,432.03	2,832.21
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	122,596.40	3,146.91
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	137,760.75	3,461.59
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	153,187.36	3,881.18
22 11 23 13-0023	Variable Speed Duplex Domestic Water Pressure Booster Skid ^(22 11 23 13)	
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1)	34,730.92	1,746.31
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2)	36,289.72	1,746.31
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3)	38,517.04	1,746.31
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4)	41,727.72	1,746.31
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5)	39,471.98	1,855.46
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6)	42,274.76	1,855.46
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7)	46,081.20	1,855.46
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8)	49,175.08	1,855.46
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9)	43,104.45	1,964.60
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10)	45,871.68	1,964.60
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11)	52,059.46	1,964.60
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12)	62,444.64	1,964.60
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13)	45,482.41	1,964.60
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14)	51,126.89	1,964.60
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15)	63,551.54	1,964.60
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16)	63,192.73	1,964.60
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17)	75,305.00	2,182.89
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18)	52,033.13	2,182.89
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19)	63,347.49	2,182.89
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20)	62,990.37	2,182.89
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21)	75,860.14	2,182.89
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22)	91,602.08	2,182.89
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1)	43,721.48	1,746.31



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 13-0047

Variable Speed Triplex Domestic Water Pressure Booster Skid (22 11 23 13)

Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.

22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	43,721.48	1,746.31
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	48,829.45	1,746.31
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	53,236.72	1,746.31
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	49,102.31	1,855.46
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	53,479.11	1,855.46
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	50,124.58	1,855.46
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	53,887.00	1,855.46
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	59,060.98	1,855.46
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	63,349.77	1,855.46
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	50,644.53	1,964.60
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	54,406.96	1,964.60
22 11 23 13-0059	EA	300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	59,579.24	1,964.60
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	63,868.03	1,964.60
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	54,875.78	1,964.60
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	58,489.27	1,964.60
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	67,417.21	1,964.60
22 11 23 13-0064	EA	360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	81,986.25	1,964.60
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	56,159.44	2,182.89
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	59,774.62	2,182.89
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	68,702.56	2,182.89
22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	83,269.91	2,182.89
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	59,189.02	2,182.89
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	67,302.86	2,182.89
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	84,928.56	2,182.89
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	86,636.29	2,182.89
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....	107,096.92	2,182.89
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....	67,143.55	2,619.47
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29).....	80,516.00	2,619.47
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....	85,586.73	2,619.47
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....	102,980.55	2,619.47
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....	127,320.39	2,619.47

22 11 23 23

Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001

Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	1,145.29	233.41
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,173.69	233.41
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	1,226.36	237.95
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	1,346.80	247.68
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,353.74	256.87
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,505.27	256.87
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	3,711.79	282.82
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	3,875.72	310.71
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	4,681.31	341.85
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	4,793.27	376.23
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,242.49	413.20

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 23-0013	EA		1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	7,468.56	454.72
22 11 23 23-0014	EA		1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	8,588.41	476.77

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016	EA		1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,189.76	233.41
22 11 23 23-0017	EA		1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	1,939.61	233.41
22 11 23 23-0018	EA		1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,948.98	237.95
22 11 23 23-0019	EA		1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,983.05	243.14
22 11 23 23-0020	EA		1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,992.11	247.68
22 11 23 23-0021	EA		1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,031.08	256.87
22 11 23 23-0022	EA		1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	2,472.71	282.82
22 11 23 23-0023	EA		1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,183.03	341.85
22 11 23 23-0024	EA		1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,358.51	376.23
22 11 23 23-0025	EA		3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	3,911.64	413.20
22 11 23 23-0026	EA		1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,246.31	454.72
22 11 23 23-0027	EA		1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,116.43	476.77
22 11 23 23-0028	EA		2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,514.09	500.77
22 11 23 23-0029	EA		3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	5,931.49	550.46
22 11 23 23-0030	EA		5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,516.57	583.80
22 11 23 23-0031	EA		7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,218.47	648.66
22 11 23 23-0032	EA		10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	8,746.21	778.53
22 11 23 23-0033	EA		15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	11,129.70	908.52

22 12 Facility Potable-Water Storage Tanks (22 10)

22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)

22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)

22 12 19 00-0002	EA		5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	35,844.69	8,902.97
22 12 19 00-0003	EA		10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	40,439.47	8,902.97
22 12 19 00-0004	EA		20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	72,405.00	13,739.18
22 12 19 00-0005	EA		35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	93,472.03	17,805.94

22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)

22 12 19 00-0007	EA		5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	42,651.76	8,902.97
22 12 19 00-0008	EA		10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	58,648.39	8,902.97
22 12 19 00-0009	EA		20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	87,553.88	13,739.18
22 12 19 00-0010	EA		35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	125,388.94	17,805.94

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)

22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)

22 12 23 13-0002	EA		80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	2,428.80	518.70
22 12 23 13-0003	EA		119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,012.47	648.37
22 12 23 13-0004	EA		140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	5,264.59	713.21
22 12 23 13-0005	EA		200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	5,815.53	778.05
22 12 23 13-0006	EA		250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	11,122.53	842.89
22 12 23 13-0007	EA		350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	9,694.83	907.72
22 12 23 13-0008	EA		400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	16,284.12	972.56
22 12 23 13-0009	EA		500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	15,092.64	1,037.40
22 12 23 13-0010	EA		750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	16,380.77	1,102.24
22 12 23 13-0011	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	19,428.11	1,167.07

22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)

22 12 23 13-0013	EA		80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,124.21	518.70
22 12 23 13-0014	EA		120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,870.36	648.37
22 12 23 13-0015	EA		140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	4,780.17	713.21
22 12 23 13-0016	EA		200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	5,845.51	778.05
22 12 23 13-0017	EA		200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	5,036.18	778.05
22 12 23 13-0018	EA		250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	7,568.41	842.89
22 12 23 13-0019	EA		325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	8,188.31	907.72
22 12 23 13-0020	EA		350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	7,820.64	907.72
22 12 23 13-0021	EA		350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	7,184.64	907.72
22 12 23 13-0022	EA		400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	9,666.10	972.56
22 12 23 13-0023	EA		500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	10,475.12	1,037.40
22 12 23 13-0024	EA		750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	12,099.12	1,102.24



Plumbing	22
Plumbing Piping	22 10
Facility Potable-Water Storage Tanks	22 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	22,151.40	1,167.07
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank	713.02	291.77
For Saddle Assembly, Add	782.41	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank	834.71	340.40
For Saddle Assembly, Add	782.41	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank	984.82	389.02
For Saddle Assembly, Add	879.05	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,186.09	437.65
For Saddle Assembly, Add	1,256.13	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,408.19	486.29
For Two Tie Down Bands, Add	459.69	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,743.93	596.09
For Two Tie Down Bands, Add	486.22	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,553.38	695.44
For Three Tie Down Bands, Add	814.59	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,627.24	794.79
For Three Tie Down Bands, Add	820.27	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	4,500.60	894.14
For Four Tie Down Bands, Add	1,108.86	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	5,257.33	993.48
For Four Tie Down Bands, Add	1,495.41	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	7,425.90	1,092.84
For Four Tie Down Bands, Add	1,919.86	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank	8,581.60	1,192.19
For Four Tie Down Bands, Add	2,063.87	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	12,293.10	1,589.59
For Four Tie Down Bands, Add	2,313.99	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank	15,775.68	1,589.59
For Five Tie Down Bands, Add	3,584.11	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank	804.80	389.02
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank	949.02	413.34
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank	1,036.39	437.65
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank	1,239.55	486.29
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank	1,424.18	583.54
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,678.91	680.80
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank	2,204.20	794.79
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,844.31	993.48
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,783.82	1,192.19
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	4,901.44	1,390.89
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	7,085.85	1,589.59
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	9,493.87	1,788.28
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	10,751.71	1,986.98
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	11,846.59	2,185.68
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	13,612.25	2,384.37
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	15,345.69	2,583.07
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	18,879.26	2,781.77
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	22,668.28	3,179.17
22 13 Facility Sanitary Sewerage (22 10)		
22 13 13 Facility Sanitary Sewers (22 13)		
22 13 13 00-0001 Fixture Rough-In (22 13 13)		
Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.		
22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)		
Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0003 EA Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,150.05	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0004 EA Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,480.74	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0005 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,054.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	674.84	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	794.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,024.49	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,081.09	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	654.93	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,054.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,091.51	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,026.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,150.05	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,797.66	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,113.55	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>		
Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,479.27	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,984.68	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,278.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	797.52	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,086.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,148.65	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	757.68	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,291.85	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,144.96	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,112.58	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,479.27	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.		
22 13 13 00-0029 Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>		
Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	739.03	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	992.34	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	640.09	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.		
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	399.41	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	543.48	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	574.30	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	411.26	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet	645.28	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	572.47	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	556.90	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13	13 00-0040	EA	Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	729.93	
	22 13	13 00-0041		Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0001) Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13	13 00-0042	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	626.75	
	22 13	13 00-0043	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	627.97	
	22 13	13 00-0044	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	606.35	
	22 13	13 00-0045	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	353.79	
	22 13	13 00-0046	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	413.58	
	22 13	13 00-0047	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	578.46	
	22 13	13 00-0048	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	573.29	
	22 13	13 00-0049	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	353.88	
	22 13	13 00-0050	EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	606.35	
	22 13	13 00-0051	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	652.88	
	22 13	13 00-0052	EA	Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	596.02	
	22 13	13 00-0053	EA	Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	626.60	
	22 13	13 00-0054	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	961.48	
	22 13	13 00-0055	EA	Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	601.65	
	22 13	13 00-0056		Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 00-0001) Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
	22 13	13 00-0057	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	739.42	
	22 13	13 00-0058	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	816.72	
	22 13	13 00-0059	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	645.16	
	22 13	13 00-0060	EA	Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	379.83	
	22 13	13 00-0061	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	582.98	
	22 13	13 00-0062	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	604.81	
	22 13	13 00-0063	EA	Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	375.69	
	22 13	13 00-0064	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	656.69	
	22 13	13 00-0065	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	664.23	
	22 13	13 00-0066	EA	Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	635.29	
	22 13	13 00-0067	EA	Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	739.42	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0068			Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069	EA		Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....369.18 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	369.18	
22 13 13 00-0070	EA		Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....407.73 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	407.73	
22 13 13 00-0071	EA		Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....322.96 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	322.96	
22 13 13 00-0072	EA		Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....189.98 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	189.98	
22 13 13 00-0073	EA		Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....291.46 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	291.46	
22 13 13 00-0074	EA		Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....302.09 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	302.09	
22 13 13 00-0075	EA		Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....187.83 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	187.83	
22 13 13 00-0076	EA		Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....328.23 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	328.23	
22 13 13 00-0077	EA		Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....332.16 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	332.16	
22 13 13 00-0078	EA		Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....318.21 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	318.21	
22 13 13 00-0079	EA		Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....360.58 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	360.58	
22 13 16			Sanitary Waste and Vent Piping <small>(22 13)</small>		
22 13 16 00-0001			Cast Iron Soil Pipe Assemblies <small>(22 13 16)</small>		
22 13 16 00-0002			Underground Bell And Spigot Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003	LF		2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....37.76 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	37.76	8.17
			<i>For Work In Restricted Working Space, Add</i> .....5.99	5.99	
22 13 16 00-0004	LF		3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....53.72 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	53.72	12.31
			<i>For Work In Restricted Working Space, Add</i> .....8.13	8.13	
22 13 16 00-0005	LF		4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....69.65 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	69.65	15.69
			<i>For Work In Restricted Working Space, Add</i> .....10.46	10.46	
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....78.59 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	78.59	17.98
			<i>For Work In Restricted Working Space, Add</i> .....10.12	10.12	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....92.09 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	92.09	19.59
			<i>For Work In Restricted Working Space, Add</i> .....11.24	11.24	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....145.97 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	145.97	28.15
			<i>For Work In Restricted Working Space, Add</i> .....15.94	15.94	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....212.42 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	212.42	28.15
			<i>For Work In Restricted Working Space, Add</i> .....18.05	18.05	
22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....34.40 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	34.40	7.78
			<i>For Work In Restricted Working Space, Add</i> .....6.83	6.83	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	36.53 7.34	8.30
	22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	46.44 9.00	12.06
	22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	55.53 10.77	15.69
	22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	69.47 11.97	17.64
	22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	78.32 13.04	19.25
	22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	122.08 18.17	27.92
	22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	169.44 21.12	31.72
	22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
	22 13 16 00-0020			Bell And Spigot Cast Iron Pipe <small>(22 13 16 00-0019)</small> Note: Excludes excavation, hangers, gaskets, and fittings.		
	22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.59 5.98 0.62 3.71	8.17
	22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.92 8.57 0.93 5.56	12.31
	22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.11 11.14 1.18 7.07	15.69
	22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.34 15.72 1.35 8.07	17.98
	22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.94 19.15 1.47 8.80	19.59
	22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.15 29.79 2.11 12.67	28.15
	22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.59 49.59 2.38 14.26	31.72
	22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.87 72.04 3.17 19.01	42.29
	22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	326.70 105.28 3.80 22.81	50.72
	22 13 16 00-0030			Bell And Spigot Cast Iron Fittings <small>(22 13 16 00-0019)</small>		
	22 13 16 00-0031			Bell And Spigot Cast Iron Long Sweeps <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.04 22.49 2.79 16.73	37.21
	22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	200.49 45.64 3.50 21.03	46.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep.....	267.09	62.24
For Extra Heavy Fittings, Add	60.83	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep.....	406.67	76.08
For Extra Heavy Fittings, Add	102.42	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep.....	801.16	99.07
For Extra Heavy Fittings, Add	228.43	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep.....	1,094.37	121.88
For Extra Heavy Fittings, Add	319.06	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep.....	1,676.34	170.11
For Extra Heavy Fittings, Add	497.45	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep.....	3,104.02	236.87
For Extra Heavy Fittings, Add	962.11	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep.....	103.07	37.21
For Extra Heavy Fittings, Add	16.56	
For Above Ground Cast Iron Pipe Installation, Add	2.79	
For Work In Restricted Working Space, Add	16.73	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep.....	172.01	46.81
For Extra Heavy Fittings, Add	35.67	
For Above Ground Cast Iron Pipe Installation, Add	3.50	
For Work In Restricted Working Space, Add	21.03	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep.....	235.07	62.24
For Extra Heavy Fittings, Add	49.62	
For Above Ground Cast Iron Pipe Installation, Add	4.66	
For Work In Restricted Working Space, Add	27.99	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep.....	342.08	64.67
For Extra Heavy Fittings, Add	85.81	
For Above Ground Cast Iron Pipe Installation, Add	4.85	
For Work In Restricted Working Space, Add	29.08	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep.....	412.78	76.08
For Extra Heavy Fittings, Add	104.56	
For Above Ground Cast Iron Pipe Installation, Add	5.70	
For Work In Restricted Working Space, Add	34.21	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep.....	678.44	99.07
For Extra Heavy Fittings, Add	185.48	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.55	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep.....	989.65	121.88
For Extra Heavy Fittings, Add	282.41	
For Above Ground Cast Iron Pipe Installation, Add	9.14	
For Work In Restricted Working Space, Add	54.83	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep.....	1,637.29	170.11
For Extra Heavy Fittings, Add	483.78	
For Above Ground Cast Iron Pipe Installation, Add	12.75	
For Work In Restricted Working Space, Add	76.52	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend.....	93.43	37.08
For Extra Heavy Fittings, Add	13.22	
For Above Ground Cast Iron Pipe Installation, Add	2.78	
For Work In Restricted Working Space, Add	16.70	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend.....	138.13	41.75
For Extra Heavy Fittings, Add	26.42	
For Above Ground Cast Iron Pipe Installation, Add	3.13	
For Work In Restricted Working Space, Add	18.80	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend.....	196.69	55.63
For Extra Heavy Fittings, Add	39.66	
For Above Ground Cast Iron Pipe Installation, Add	4.17	
For Work In Restricted Working Space, Add	25.01	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend.....	238.72	57.75
For Extra Heavy Fittings, Add	53.27	
For Above Ground Cast Iron Pipe Installation, Add	4.33	
For Work In Restricted Working Space, Add	25.96	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend.....	287.11	69.16
For Extra Heavy Fittings, Add	64.17	
For Above Ground Cast Iron Pipe Installation, Add	5.19	
For Work In Restricted Working Space, Add	31.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0055	EA		8" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	591.67 159.23 6.84 41.02	91.23
	22 13 16 00-0056	EA		10" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	869.84 246.35 8.30 49.79	110.71
	22 13 16 00-0057	EA		12" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,145.04 332.18 9.80 58.79	130.67
	22 13 16 00-0058	EA		15" Bell And Spigot Cast Iron 1/4 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,911.29 910.82 15.45 92.69	206.11
	22 13 16 00-0059			Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
	22 13 16 00-0060	EA		2" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.93 10.56 2.79 16.73	37.21
	22 13 16 00-0061	EA		3" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.32 21.78 3.50 21.03	46.81
	22 13 16 00-0062	EA		4" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.72 33.05 4.66 27.99	62.24
	22 13 16 00-0063	EA		5" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.38 41.67 5.42 32.50	72.28
	22 13 16 00-0064	EA		6" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.65 49.62 6.04 36.26	80.58
	22 13 16 00-0065	EA		8" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	518.61 124.16 8.19 49.16	109.29
	22 13 16 00-0066	EA		10" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	723.26 182.37 10.11 60.66	134.83
	22 13 16 00-0067	EA		12" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,163.70 315.56 13.10 78.63	174.86
	22 13 16 00-0068	EA		15" Bell And Spigot Cast Iron 1/8 Bend <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,215.21 667.19 15.45 92.69	206.11
	22 13 16 00-0069			Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
	22 13 16 00-0070	EA		2" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.70 10.15 6.23 37.41	83.12
	22 13 16 00-0071	EA		3" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.85 19.02 6.83 40.95	91.03
	22 13 16 00-0072	EA		4" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.14 25.31 8.94 53.65	119.30
	22 13 16 00-0073	EA		5" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.05 42.18 9.33 55.96	124.39
	22 13 16 00-0074	EA		6" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	384.36 57.15 11.05 66.32	147.44
	22 13 16 00-0075	EA		8" Bell And Spigot Cast Iron Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	699.61 140.13 14.96 89.77	199.57

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	974.90	226.41
For Extra Heavy Fittings, Add	222.43	
For Above Ground Cast Iron Pipe Installation, Add	16.97	
For Work In Restricted Working Space, Add	101.82	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,435.56	275.60
For Extra Heavy Fittings, Add	357.83	
For Above Ground Cast Iron Pipe Installation, Add	20.66	
For Work In Restricted Working Space, Add	123.96	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,214.21	309.22
For Extra Heavy Fittings, Add	612.72	
For Above Ground Cast Iron Pipe Installation, Add	23.18	
For Work In Restricted Working Space, Add	139.07	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	234.65	86.88
For Extra Heavy Fittings, Add	36.52	
For Above Ground Cast Iron Pipe Installation, Add	6.52	
For Work In Restricted Working Space, Add	39.09	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	285.91	107.37
For Extra Heavy Fittings, Add	43.70	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.32	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye	317.15	110.09
For Extra Heavy Fittings, Add	53.20	
For Above Ground Cast Iron Pipe Installation, Add	8.26	
For Work In Restricted Working Space, Add	49.55	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye	451.30	132.11
For Extra Heavy Fittings, Add	88.67	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.39	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye	462.91	134.53
For Extra Heavy Fittings, Add	91.41	
For Above Ground Cast Iron Pipe Installation, Add	10.09	
For Work In Restricted Working Space, Add	60.52	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye	484.81	143.53
For Extra Heavy Fittings, Add	94.37	
For Above Ground Cast Iron Pipe Installation, Add	10.76	
For Work In Restricted Working Space, Add	64.56	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye	710.47	160.49
For Extra Heavy Fittings, Add	164.45	
For Above Ground Cast Iron Pipe Installation, Add	12.03	
For Work In Restricted Working Space, Add	72.18	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye	742.20	163.57
For Extra Heavy Fittings, Add	173.95	
For Above Ground Cast Iron Pipe Installation, Add	12.26	
For Work In Restricted Working Space, Add	73.56	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye	760.49	171.30
For Extra Heavy Fittings, Add	176.27	
For Above Ground Cast Iron Pipe Installation, Add	12.84	
For Work In Restricted Working Space, Add	77.06	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye	897.34	190.55
For Extra Heavy Fittings, Add	214.06	
For Above Ground Cast Iron Pipe Installation, Add	14.29	
For Work In Restricted Working Space, Add	85.72	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,100.67	178.54
For Extra Heavy Fittings, Add	291.54	
For Above Ground Cast Iron Pipe Installation, Add	13.39	
For Work In Restricted Working Space, Add	80.31	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,145.05	186.39
For Extra Heavy Fittings, Add	302.94	
For Above Ground Cast Iron Pipe Installation, Add	13.98	
For Work In Restricted Working Space, Add	83.85	
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,252.91	206.11
For Extra Heavy Fittings, Add	330.38	
For Above Ground Cast Iron Pipe Installation, Add	15.45	
For Work In Restricted Working Space, Add	92.69	
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,651.05	218.58
For Extra Heavy Fittings, Add	463.17	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,698.70	218.58
For Extra Heavy Fittings, Add	479.85	
For Above Ground Cast Iron Pipe Installation, Add	16.39	
For Work In Restricted Working Space, Add	98.31	
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,768.97	236.87
For Extra Heavy Fittings, Add	494.84	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.54	
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,074.22	248.63
For Extra Heavy Fittings, Add	595.54	
For Above Ground Cast Iron Pipe Installation, Add	18.63	
For Work In Restricted Working Space, Add	111.80	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0097	EA			12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,516.62 746.48 19.19 115.15	256.00
22 13 16 00-0098	EA			15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,142.55 1,323.23 18.10 108.57	241.38
22 13 16 00-0099	EA			15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,324.38 1,376.43 19.59 117.52	261.22
22 13 16 00-0100	EA			15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,413.60 1,401.76 20.43 122.57	272.51
22 13 16 00-0101	EA			15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,516.67 1,433.01 21.12 126.71	281.77
22 13 16 00-0102	EA			15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,631.78 1,464.67 22.35 134.10	298.17
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>						
22 13 16 00-0104	EA			2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.13 14.50 6.23 37.41	83.12
22 13 16 00-0105	EA			3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.51 21.70 8.83 40.95	91.03
22 13 16 00-0106	EA			4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.47 29.98 8.94 53.65	119.30
22 13 16 00-0107	EA			5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	350.77 54.32 9.78 58.67	130.49
22 13 16 00-0108	EA			6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	439.13 68.78 12.13 72.79	161.85
22 13 16 00-0109	EA			8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	800.52 167.43 16.11 96.65	214.89
22 13 16 00-0110	EA			10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,152.21 255.44 21.12 126.71	281.77
22 13 16 00-0111	EA			12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,543.20 350.05 27.15 162.92	362.20
22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>						
22 13 16 00-0113	EA			3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.80 16.28 6.52 39.09	86.88
22 13 16 00-0114	EA			4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.47 29.90 8.05 48.32	107.37
22 13 16 00-0115	EA			4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	265.10 34.98 8.26 49.55	110.09
22 13 16 00-0116	EA			6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	376.65 62.54 9.90 59.39	132.11
22 13 16 00-0117	EA			6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	392.05 66.61 10.09 60.52	134.53

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0118	EA		6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	415.66	143.53
			<i>For Extra Heavy Fittings, Add</i>	70.16	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0119	EA		8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	571.82	160.49
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.03	
			<i>For Work In Restricted Working Space, Add</i>	72.18	
22 13 16 00-0120	EA		8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	588.07	171.30
			<i>For Extra Heavy Fittings, Add</i>	115.93	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0121	EA		8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	740.43	190.55
			<i>For Extra Heavy Fittings, Add</i>	159.15	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0122			Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye	263.66	99.46
			<i>For Extra Heavy Fittings, Add</i>	40.11	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.45	
			<i>For Work In Restricted Working Space, Add</i>	44.72	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye	380.34	125.39
			<i>For Extra Heavy Fittings, Add</i>	67.34	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.40	
			<i>For Work In Restricted Working Space, Add</i>	56.38	
22 13 16 00-0125	EA		4" Bell And Spigot Cast Iron Double Wye	514.10	158.59
			<i>For Extra Heavy Fittings, Add</i>	96.69	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.89	
			<i>For Work In Restricted Working Space, Add</i>	71.36	
22 13 16 00-0126	EA		6" Bell And Spigot Cast Iron Double Wye	952.45	226.52
			<i>For Extra Heavy Fittings, Add</i>	214.49	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	101.89	
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye	1,896.04	269.77
			<i>For Extra Heavy Fittings, Add</i>	522.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.22	
			<i>For Work In Restricted Working Space, Add</i>	121.32	
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye	2,507.54	301.85
			<i>For Extra Heavy Fittings, Add</i>	719.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	22.63	
			<i>For Work In Restricted Working Space, Add</i>	135.77	
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye	1,752.82	362.20
			<i>For Extra Heavy Fittings, Add</i>	423.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	27.15	
			<i>For Work In Restricted Working Space, Add</i>	162.92	
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye	4,883.39	380.14
			<i>For Extra Heavy Fittings, Add</i>	1,509.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	28.51	
			<i>For Work In Restricted Working Space, Add</i>	171.07	
22 13 16 00-0131			Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	244.00	117.62
			<i>For Extra Heavy Fittings, Add</i>	23.67	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.82	
			<i>For Work In Restricted Working Space, Add</i>	52.91	
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	283.26	135.12
			<i>For Extra Heavy Fittings, Add</i>	28.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.13	
			<i>For Work In Restricted Working Space, Add</i>	60.79	
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	306.01	141.73
			<i>For Extra Heavy Fittings, Add</i>	32.70	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.63	
			<i>For Work In Restricted Working Space, Add</i>	63.77	
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	374.99	157.13
			<i>For Extra Heavy Fittings, Add</i>	48.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.78	
			<i>For Work In Restricted Working Space, Add</i>	70.66	
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	397.25	163.12
			<i>For Extra Heavy Fittings, Add</i>	53.45	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	73.36	
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	456.31	177.88
			<i>For Extra Heavy Fittings, Add</i>	66.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.33	
			<i>For Work In Restricted Working Space, Add</i>	80.00	
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	732.65	207.89
			<i>For Extra Heavy Fittings, Add</i>	147.37	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.58	
			<i>For Work In Restricted Working Space, Add</i>	93.47	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	799.82	246.01
For Extra Heavy Fittings, Add	150.82	
For Above Ground Cast Iron Pipe Installation, Add	18.45	
For Work In Restricted Working Space, Add	110.68	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye.....	780.58	222.37
For Extra Heavy Fittings, Add	156.50	
For Above Ground Cast Iron Pipe Installation, Add	16.67	
For Work In Restricted Working Space, Add	100.04	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	909.91	261.22
For Extra Heavy Fittings, Add	181.36	
For Above Ground Cast Iron Pipe Installation, Add	19.59	
For Work In Restricted Working Space, Add	117.52	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	1,117.85	284.74
For Extra Heavy Fittings, Add	241.83	
For Above Ground Cast Iron Pipe Installation, Add	21.35	
For Work In Restricted Working Space, Add	128.08	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye.....	1,141.83	291.28
For Extra Heavy Fittings, Add	246.79	
For Above Ground Cast Iron Pipe Installation, Add	21.84	
For Work In Restricted Working Space, Add	131.02	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye.....	1,454.53	316.93
For Extra Heavy Fittings, Add	342.78	
For Above Ground Cast Iron Pipe Installation, Add	23.76	
For Work In Restricted Working Space, Add	142.55	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	222.59	99.46
For Extra Heavy Fittings, Add	25.74	
For Above Ground Cast Iron Pipe Installation, Add	7.45	
For Work In Restricted Working Space, Add	44.72	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	299.63	133.05
For Extra Heavy Fittings, Add	35.05	
For Above Ground Cast Iron Pipe Installation, Add	9.98	
For Work In Restricted Working Space, Add	59.85	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	390.27	166.37
For Extra Heavy Fittings, Add	49.32	
For Above Ground Cast Iron Pipe Installation, Add	12.47	
For Work In Restricted Working Space, Add	74.81	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	816.38	253.16
For Extra Heavy Fittings, Add	152.88	
For Above Ground Cast Iron Pipe Installation, Add	18.98	
For Work In Restricted Working Space, Add	113.87	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	295.04	119.30
For Extra Heavy Fittings, Add	40.68	
For Above Ground Cast Iron Pipe Installation, Add	8.94	
For Work In Restricted Working Space, Add	53.65	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	349.05	135.12
For Extra Heavy Fittings, Add	51.25	
For Above Ground Cast Iron Pipe Installation, Add	10.13	
For Work In Restricted Working Space, Add	60.79	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	391.64	150.43
For Extra Heavy Fittings, Add	58.17	
For Above Ground Cast Iron Pipe Installation, Add	11.27	
For Work In Restricted Working Space, Add	67.64	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	749.46	188.83
For Extra Heavy Fittings, Add	163.21	
For Above Ground Cast Iron Pipe Installation, Add	14.16	
For Work In Restricted Working Space, Add	84.94	
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee	182.10	83.25
For Extra Heavy Fittings, Add	20.06	
For Above Ground Cast Iron Pipe Installation, Add	6.24	
For Work In Restricted Working Space, Add	37.44	
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee	206.47	91.03
For Extra Heavy Fittings, Add	24.49	
For Above Ground Cast Iron Pipe Installation, Add	6.83	
For Work In Restricted Working Space, Add	40.95	
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee	326.52	111.52
For Extra Heavy Fittings, Add	55.73	
For Above Ground Cast Iron Pipe Installation, Add	8.36	
For Work In Restricted Working Space, Add	50.18	
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee	456.07	115.05
For Extra Heavy Fittings, Add	99.22	
For Above Ground Cast Iron Pipe Installation, Add	8.63	
For Work In Restricted Working Space, Add	51.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0160	EA		6" Bell And Spigot Cast Iron Sanitary Tee .....547.10		137.99
			<i>For Extra Heavy Fittings, Add</i>	119.07	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.35	
			<i>For Work In Restricted Working Space, Add</i>	62.07	
22 13 16 00-0161	EA		8" Bell And Spigot Cast Iron Sanitary Tee .....1,169.10		182.35
			<i>For Extra Heavy Fittings, Add</i>	313.50	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.67	
			<i>For Work In Restricted Working Space, Add</i>	82.02	
22 13 16 00-0162	EA		10" Bell And Spigot Cast Iron Sanitary Tee .....1,752.10		222.37
			<i>For Extra Heavy Fittings, Add</i>	496.53	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.67	
			<i>For Work In Restricted Working Space, Add</i>	100.04	
22 13 16 00-0163	EA		12" Bell And Spigot Cast Iron Sanitary Tee .....2,607.77		261.22
			<i>For Extra Heavy Fittings, Add</i>	775.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.59	
			<i>For Work In Restricted Working Space, Add</i>	117.52	
22 13 16 00-0164			Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165	EA		3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....240.08		86.88
			<i>For Extra Heavy Fittings, Add</i>	38.42	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.52	
			<i>For Work In Restricted Working Space, Add</i>	39.09	
22 13 16 00-0166	EA		4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....284.05		101.79
			<i>For Extra Heavy Fittings, Add</i>	46.02	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0167	EA		4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....296.72		101.79
			<i>For Extra Heavy Fittings, Add</i>	50.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.63	
			<i>For Work In Restricted Working Space, Add</i>	45.77	
22 13 16 00-0168	EA		6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....434.41		132.11
			<i>For Extra Heavy Fittings, Add</i>	82.75	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
			<i>For Work In Restricted Working Space, Add</i>	59.39	
22 13 16 00-0169	EA		6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....452.05		134.53
			<i>For Extra Heavy Fittings, Add</i>	87.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.09	
			<i>For Work In Restricted Working Space, Add</i>	60.52	
22 13 16 00-0170	EA		6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....490.23		143.53
			<i>For Extra Heavy Fittings, Add</i>	96.26	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.76	
			<i>For Work In Restricted Working Space, Add</i>	64.56	
22 13 16 00-0171	EA		8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....832.27		171.30
			<i>For Extra Heavy Fittings, Add</i>	201.40	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.84	
			<i>For Work In Restricted Working Space, Add</i>	77.06	
22 13 16 00-0172	EA		8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee .....1,042.70		190.55
			<i>For Extra Heavy Fittings, Add</i>	264.94	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.29	
			<i>For Work In Restricted Working Space, Add</i>	85.72	
22 13 16 00-0173			Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174	EA		2" Bell And Spigot Cast Iron Vent Tee .....158.17		83.12
			<i>For Extra Heavy Fittings, Add</i>	11.72	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0175	EA		3" Bell And Spigot Cast Iron Vent Tee .....194.77		91.03
			<i>For Extra Heavy Fittings, Add</i>	20.39	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
			<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0176	EA		4" Bell And Spigot Cast Iron Vent Tee .....257.77		119.30
			<i>For Extra Heavy Fittings, Add</i>	27.63	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee .....313.38		130.49
			<i>For Extra Heavy Fittings, Add</i>	41.23	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.78	
			<i>For Work In Restricted Working Space, Add</i>	58.67	
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee .....394.38		161.85
			<i>For Extra Heavy Fittings, Add</i>	53.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.13	
			<i>For Work In Restricted Working Space, Add</i>	72.79	
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee .....675.30		214.89
			<i>For Extra Heavy Fittings, Add</i>	123.60	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.11	
			<i>For Work In Restricted Working Space, Add</i>	96.65	
22 13 16 00-0180			Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee .....162.09		83.12
			<i>For Extra Heavy Fittings, Add</i>	13.09	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	37.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee	178.78	91.03
<i>For Extra Heavy Fittings, Add</i>	14.80	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee	230.93	119.30
<i>For Extra Heavy Fittings, Add</i>	18.24	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross	164.56	83.12
<i>For Extra Heavy Fittings, Add</i>	13.95	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.23	
<i>For Work In Restricted Working Space, Add</i>	37.41	
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross	183.49	91.03
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.83	
<i>For Work In Restricted Working Space, Add</i>	40.95	
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross	242.76	119.30
<i>For Extra Heavy Fittings, Add</i>	22.38	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	53.65	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	91.26	46.81
<i>For Extra Heavy Fittings, Add</i>	7.41	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.50	
<i>For Work In Restricted Working Space, Add</i>	21.03	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	114.77	61.72
<i>For Extra Heavy Fittings, Add</i>	7.75	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.63	
<i>For Work In Restricted Working Space, Add</i>	27.79	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	122.06	62.24
<i>For Extra Heavy Fittings, Add</i>	10.07	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.66	
<i>For Work In Restricted Working Space, Add</i>	27.99	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	146.60	69.86
<i>For Extra Heavy Fittings, Add</i>	14.63	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.24	
<i>For Work In Restricted Working Space, Add</i>	31.44	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	153.16	70.79
<i>For Extra Heavy Fittings, Add</i>	16.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.31	
<i>For Work In Restricted Working Space, Add</i>	31.85	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	158.02	72.28
<i>For Extra Heavy Fittings, Add</i>	17.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.42	
<i>For Work In Restricted Working Space, Add</i>	32.50	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	203.41	74.47
<i>For Extra Heavy Fittings, Add</i>	32.11	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.58	
<i>For Work In Restricted Working Space, Add</i>	33.50	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	231.44	92.54
<i>For Extra Heavy Fittings, Add</i>	32.45	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.94	
<i>For Work In Restricted Working Space, Add</i>	41.62	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	237.53	94.91
<i>For Extra Heavy Fittings, Add</i>	33.31	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.12	
<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	245.42	99.07
<i>For Extra Heavy Fittings, Add</i>	33.93	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.42	
<i>For Work In Restricted Working Space, Add</i>	44.55	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	305.46	111.19
<i>For Extra Heavy Fittings, Add</i>	48.56	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.34	
<i>For Work In Restricted Working Space, Add</i>	50.02	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	322.02	116.78
<i>For Extra Heavy Fittings, Add</i>	51.40	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.76	
<i>For Work In Restricted Working Space, Add</i>	52.55	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	342.90	121.88
<i>For Extra Heavy Fittings, Add</i>	56.05	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.14	
<i>For Work In Restricted Working Space, Add</i>	54.83	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	424.48	132.10
<i>For Extra Heavy Fittings, Add</i>	79.27	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.90	
<i>For Work In Restricted Working Space, Add</i>	59.40	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0203	EA		12" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	474.02 84.78 11.59 69.54	154.55
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	513.39 87.29 13.20 79.19	176.05
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	563.25 90.73 15.20 91.20	202.77
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	730.99 149.44 15.20 91.20	202.77
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	778.02 157.61 16.39 98.31	218.58
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	810.38 162.68 17.28 103.67	230.45
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	854.17 169.84 18.45 110.68	246.01
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)					
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.96 12.67 2.79 16.73	37.21
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.75 18.43 3.50 21.03	46.81
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.06 25.82 4.66 27.99	62.24
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	255.07 55.35 4.85 29.08	64.67
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.80 79.72 5.70 34.21	76.08
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	756.48 212.80 7.42 44.55	99.07
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	839.61 229.90 9.14 54.83	121.88
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)					
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.71 17.48 2.79 16.73	37.21
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.77 27.89 3.50 21.03	46.81
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.30 43.40 4.66 27.99	62.24
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.91 83.16 5.42 32.50	72.28
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	367.32 86.26 6.04 36.26	80.58
22 13 16 00-0224			Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	244.60 6.83 40.95	89.86
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.97 8.94 53.65	118.13
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.07 9.49 56.93	125.54
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	845.87 10.76 64.56	142.26
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,760.66 12.84 77.06	169.39
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,989.46 14.29 85.72	189.00
22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.23 9.40 56.38	124.10
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	427.30 11.89 71.36	156.64
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	943.92 13.33 80.00	175.80
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,095.31 16.12 96.74	212.80
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,975.04 15.58 93.47	205.39
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,265.86 18.45 110.68	243.88
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,340.76 21.35 128.08	281.42
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,003.48 24.65 147.87	325.37
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,668.86 28.52 171.13	376.33
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.81 2.78 16.69	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.63 3.13 18.75	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.91 4.19 25.12	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.41 4.86 29.18	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	440.06 5.88 35.25	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	826.84 7.42 44.54	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019) Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.50 0.78 4.65	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.91 0.85 5.07	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.13 1.06 6.34	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.35 1.27 7.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.80 1.69 10.14	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.43 1.97 11.83	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.48 2.32 13.94	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.52 2.68 16.06	
22 13 16 00-0257 Joint Material (22 13 16 00-0019) Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	5.38	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	12.54	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.28	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268) Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.42 0.58 3.50	7.78
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.60 0.63 3.76	8.30
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.93 0.91 5.44	12.06
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.26 1.18 7.07	15.69
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.11 1.32 7.94	17.64
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.66 1.44 8.65	19.25
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.75 2.09 12.53	27.92
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.52 2.38 14.26	31.72
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.52 2.76 16.55	36.83
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.98 2.76 16.55	36.83
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.82 3.16 18.98	42.14
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.77 4.18 25.10	55.76
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.88 4.36 26.17	58.21
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.31 5.21 31.24	69.40
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.08 6.79 40.73	90.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)					
22 13 16 00-0288	EA		3" x 2" No Hub Cast Iron Reducing Long Sweep.....	106.22	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0289	EA		4" x 3" No Hub Cast Iron Reducing Long Sweep.....	155.75	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)					
22 13 16 00-0291	EA		2" No Hub Cast Iron Short Sweep.....	70.07	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0292	EA		3" No Hub Cast Iron Short Sweep.....	83.73	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0293	EA		4" No Hub Cast Iron Short Sweep.....	117.15	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0294	EA		5" No Hub Cast Iron Short Sweep.....	152.49	58.21
			<i>For Below Ground Installation, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0295	EA		6" No Hub Cast Iron Short Sweep.....	170.84	69.40
			<i>For Below Ground Installation, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0296	EA		8" No Hub Cast Iron Short Sweep.....	315.46	90.52
			<i>For Below Ground Installation, Add</i>	6.79	
			<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0297	EA		10" No Hub Cast Iron Short Sweep.....	506.14	126.75
			<i>For Below Ground Installation, Add</i>	9.50	
			<i>For Work In Restricted Working Space, Add</i>	57.02	
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)					
22 13 16 00-0299	EA		1-1/2" No Hub Cast Iron 1/4 Bend.....	64.48	35.27
			<i>For Below Ground Installation, Add</i>	2.65	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0300	EA		2" No Hub Cast Iron 1/4 Bend.....	67.39	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0301	EA		3" No Hub Cast Iron 1/4 Bend.....	79.37	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0302	EA		4" No Hub Cast Iron 1/4 Bend.....	107.52	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0303	EA		5" No Hub Cast Iron 1/4 Bend.....	140.54	58.21
			<i>For Below Ground Installation, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	26.17	
22 13 16 00-0304	EA		6" No Hub Cast Iron 1/4 Bend.....	163.19	69.40
			<i>For Below Ground Installation, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	31.24	
22 13 16 00-0305	EA		8" No Hub Cast Iron 1/4 Bend.....	293.16	90.52
			<i>For Below Ground Installation, Add</i>	6.79	
			<i>For Work In Restricted Working Space, Add</i>	40.73	
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0307	EA		1-1/2" No Hub Cast Iron 1/8 Bend.....	62.00	35.27
			<i>For Below Ground Installation, Add</i>	2.65	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
22 13 16 00-0308	EA		2" No Hub Cast Iron 1/8 Bend.....	64.45	36.83
			<i>For Below Ground Installation, Add</i>	2.76	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
22 13 16 00-0309	EA		3" No Hub Cast Iron 1/8 Bend.....	76.48	42.14
			<i>For Below Ground Installation, Add</i>	3.16	
			<i>For Work In Restricted Working Space, Add</i>	18.98	
22 13 16 00-0310	EA		4" No Hub Cast Iron 1/8 Bend.....	101.04	55.76
			<i>For Below Ground Installation, Add</i>	4.18	
			<i>For Work In Restricted Working Space, Add</i>	25.10	
22 13 16 00-0311	EA		6" No Hub Cast Iron 1/8 Bend.....	163.17	82.35
			<i>For Below Ground Installation, Add</i>	6.18	
			<i>For Work In Restricted Working Space, Add</i>	37.05	
22 13 16 00-0312	EA		8" No Hub Cast Iron 1/8 Bend.....	267.68	108.15
			<i>For Below Ground Installation, Add</i>	8.11	
			<i>For Work In Restricted Working Space, Add</i>	48.63	
22 13 16 00-0313	EA		10" No Hub Cast Iron 1/8 Bend.....	398.65	133.05
			<i>For Below Ground Installation, Add</i>	9.98	
			<i>For Work In Restricted Working Space, Add</i>	59.85	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.23 4.16 24.94	55.50
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.07 5.64 33.83	75.21
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.79 6.18 37.05	82.35
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.27 8.11 48.63	108.15
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.16 8.49 50.97	113.32
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.50 10.09 60.52	134.53
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	489.48 13.58 81.46	181.16
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	773.60 15.08 90.51	201.23
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.20 5.38 32.29	71.84
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.08 6.18 37.05	82.35
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.99 6.83 40.95	91.03
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.80 7.58 45.50	101.15
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 8.58 51.51	114.47
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.72 8.97 53.80	119.66
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.36 10.48 62.88	139.83
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	338.34 10.68 64.07	142.43
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.76 11.73 70.40	156.57
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	576.45 12.50 75.03	166.79
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	609.16 13.39 80.31	178.54
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	695.87 14.29 85.75	190.66
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.08 4.84 29.03	64.58
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.73 5.64 33.83	75.21
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.76 6.18 37.05	82.35
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.31 8.11 48.63	108.15
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	375.77 12.47 74.81	166.37
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	637.17 16.00 96.01	213.44



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0343	EA		10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	751.01 19.34 116.06	258.05
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0345	EA		2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.54 5.64 33.83	75.21
22 13 16 00-0346	EA		3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	143.56 6.18 37.05	82.35
22 13 16 00-0347	EA		4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.96 6.83 40.95	91.03
22 13 16 00-0348	EA		4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.62 7.58 45.50	101.15
22 13 16 00-0349	EA		6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.13 8.58 51.51	114.47
22 13 16 00-0350	EA		6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.95 8.97 53.80	119.66
22 13 16 00-0351	EA		6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.44 10.48 62.88	139.83
22 13 16 00-0352	EA		8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	379.63 10.68 64.07	142.43
22 13 16 00-0353	EA		8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	483.14 11.73 70.40	156.57
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)					
22 13 16 00-0355	EA		2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.94 7.01 42.06	93.49
22 13 16 00-0356	EA		3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.58 8.53 51.19	113.86
22 13 16 00-0357	EA		4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.91 9.33 55.97	124.49
22 13 16 00-0358	EA		6" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.90 12.71 76.25	169.58
22 13 16 00-0359	EA		8" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	748.39 17.28 103.67	230.45
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)					
22 13 16 00-0361	EA		3" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.27 7.77 46.59	103.61
22 13 16 00-0362	EA		4" x 2" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.20 8.94 53.66	119.30
22 13 16 00-0363	EA		4" x 3" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.51 9.75 58.50	130.06
22 13 16 00-0364	EA		6" x 4" No Hub Cast Iron Double Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.77 11.21 67.25	149.52
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0366	EA		2" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.28 8.42 50.52	112.30
22 13 16 00-0367	EA		3" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.34 9.33 55.97	124.49
22 13 16 00-0368	EA		4" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	364.94 12.35 74.10	164.82
22 13 16 00-0369	EA		6" No Hub Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	519.10 19.07 114.42	254.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	191.14	96.61
For Below Ground Installation, Add	7.24	
For Work In Restricted Working Space, Add	43.47	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	221.71	112.30
For Below Ground Installation, Add	8.42	
For Work In Restricted Working Space, Add	50.52	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	261.40	122.67
For Below Ground Installation, Add	9.20	
For Work In Restricted Working Space, Add	55.18	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	96.86	54.34
For Below Ground Installation, Add	4.08	
For Work In Restricted Working Space, Add	24.47	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	129.88	75.21
For Below Ground Installation, Add	5.64	
For Work In Restricted Working Space, Add	33.83	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	143.97	82.35
For Below Ground Installation, Add	6.18	
For Work In Restricted Working Space, Add	37.05	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	194.12	108.15
For Below Ground Installation, Add	8.11	
For Work In Restricted Working Space, Add	48.63	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	249.02	113.32
For Below Ground Installation, Add	8.49	
For Work In Restricted Working Space, Add	50.97	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	293.89	134.53
For Below Ground Installation, Add	10.09	
For Work In Restricted Working Space, Add	60.52	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	540.69	181.16
For Below Ground Installation, Add	13.58	
For Work In Restricted Working Space, Add	81.46	
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	109.08	61.34
For Below Ground Installation, Add	4.60	
For Work In Restricted Working Space, Add	27.59	
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee	126.62	71.84
For Below Ground Installation, Add	5.38	
For Work In Restricted Working Space, Add	32.29	
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	131.76	75.21
For Below Ground Installation, Add	5.64	
For Work In Restricted Working Space, Add	33.83	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	151.36	75.21
For Below Ground Installation, Add	5.64	
For Work In Restricted Working Space, Add	33.83	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	176.93	101.79
For Below Ground Installation, Add	7.63	
For Work In Restricted Working Space, Add	45.77	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	181.69	101.79
For Below Ground Installation, Add	7.63	
For Work In Restricted Working Space, Add	45.77	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	217.98	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	224.62	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	225.43	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	234.03	112.17
For Below Ground Installation, Add	8.41	
For Work In Restricted Working Space, Add	50.44	
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee.....	429.56	152.77
For Below Ground Installation, Add	11.45	
For Work In Restricted Working Space, Add	68.70	
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	72.35	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	83.88	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee	104.74	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee 69.36		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee 86.06		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee 123.73		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee 201.67		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee 276.53		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee 352.63		164.30
			<i>For Below Ground Installation, Add</i> 12.32		
			<i>For Work In Restricted Working Space, Add</i> 73.91		
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)					
22 13 16 00-0407	EA		2" No Hub Cast Iron Cleanout Plug 61.21		36.83
			<i>For Below Ground Installation, Add</i> 2.76		
			<i>For Work In Restricted Working Space, Add</i> 16.55		
22 13 16 00-0408	EA		3" No Hub Cast Iron Cleanout Plug 72.73		42.14
			<i>For Below Ground Installation, Add</i> 3.16		
			<i>For Work In Restricted Working Space, Add</i> 18.98		
22 13 16 00-0409	EA		4" No Hub Cast Iron Cleanout Plug 101.64		55.76
			<i>For Below Ground Installation, Add</i> 4.18		
			<i>For Work In Restricted Working Space, Add</i> 25.10		
22 13 16 00-0410	EA		6" No Hub Cast Iron Cleanout Plug 157.09		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0411	EA		8" No Hub Cast Iron Cleanout Plug 208.25		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0413	EA		1-1/2" No Hub Cast Iron Sanitary Cross 129.65		72.62
			<i>For Below Ground Installation, Add</i> 5.45		
			<i>For Work In Restricted Working Space, Add</i> 32.69		
22 13 16 00-0414	EA		2" No Hub Cast Iron Sanitary Cross 138.60		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0415	EA		3" No Hub Cast Iron Sanitary Cross 164.18		82.35
			<i>For Below Ground Installation, Add</i> 6.18		
			<i>For Work In Restricted Working Space, Add</i> 37.05		
22 13 16 00-0416	EA		4" No Hub Cast Iron Sanitary Cross 238.55		108.15
			<i>For Below Ground Installation, Add</i> 8.11		
			<i>For Work In Restricted Working Space, Add</i> 48.63		
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0418	EA		3" x 2" No Hub Cast Iron Sanitary Cross 181.43		96.61
			<i>For Below Ground Installation, Add</i> 7.24		
			<i>For Work In Restricted Working Space, Add</i> 43.46		
22 13 16 00-0419	EA		4" x 2" No Hub Cast Iron Sanitary Cross 200.80		99.46
			<i>For Below Ground Installation, Add</i> 7.46		
			<i>For Work In Restricted Working Space, Add</i> 44.74		
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross 218.01		103.87
			<i>For Below Ground Installation, Add</i> 7.78		
			<i>For Work In Restricted Working Space, Add</i> 46.69		
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer 121.42		75.21
			<i>For Below Ground Installation, Add</i> 5.64		
			<i>For Work In Restricted Working Space, Add</i> 33.83		
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer 165.78		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer 166.19		101.79
			<i>For Below Ground Installation, Add</i> 7.63		
			<i>For Work In Restricted Working Space, Add</i> 45.77		
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer 180.79		107.67
			<i>For Below Ground Installation, Add</i> 8.07		
			<i>For Work In Restricted Working Space, Add</i> 48.42		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer	183.48	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer	184.54	107.67
For Below Ground Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.42	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer	212.82	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer	213.22	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer	214.44	119.66
For Below Ground Installation, Add	8.97	
For Work In Restricted Working Space, Add	53.80	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer	298.06	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer	301.15	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer	306.12	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer	311.29	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer	311.89	169.04
For Below Ground Installation, Add	12.67	
For Work In Restricted Working Space, Add	76.03	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer	363.13	178.31
For Below Ground Installation, Add	13.36	
For Work In Restricted Working Space, Add	80.18	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer	386.56	186.14
For Below Ground Installation, Add	13.96	
For Work In Restricted Working Space, Add	83.75	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer	431.60	202.07
For Below Ground Installation, Add	15.15	
For Work In Restricted Working Space, Add	90.88	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug	57.89	35.27
For Below Ground Installation, Add	2.65	
For Work In Restricted Working Space, Add	15.88	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug	59.94	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug	71.72	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug	95.01	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug	109.85	59.95
For Below Ground Installation, Add	4.44	
For Work In Restricted Working Space, Add	26.63	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug	125.40	69.40
For Below Ground Installation, Add	5.21	
For Work In Restricted Working Space, Add	31.24	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug	202.89	90.52
For Below Ground Installation, Add	6.79	
For Work In Restricted Working Space, Add	40.73	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug	242.72	97.53
For Below Ground Installation, Add	7.31	
For Work In Restricted Working Space, Add	43.86	
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap	72.76	36.83
For Below Ground Installation, Add	2.76	
For Work In Restricted Working Space, Add	16.55	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap	103.33	42.14
For Below Ground Installation, Add	3.16	
For Work In Restricted Working Space, Add	18.98	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap	153.27	55.76
For Below Ground Installation, Add	4.18	
For Work In Restricted Working Space, Add	25.10	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap	247.20	58.68
For Below Ground Installation, Add	4.40	
For Work In Restricted Working Space, Add	26.38	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap	264.33	69.97
For Below Ground Installation, Add	5.25	
For Work In Restricted Working Space, Add	31.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0455	EA	2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.04 3.50 21.03	46.81
	22 13 16 00-0456	EA	3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.21 4.66 27.99	62.24
	22 13 16 00-0457	EA	4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.59 6.16 36.96	82.21
22 13 16 00-0458 No Hub Cast Iron Closet Flanges <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0459	EA	4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.52 4.18 25.10	55.76
	22 13 16 00-0460	EA	4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.31 4.18 25.10	55.76
22 13 16 00-0461 No Hub Cast Iron Closet Bends <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0462	EA	4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.73 4.18 25.10	55.76
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter <small>(22 13 16 00-0278)</small>					
	22 13 16 00-0464	EA	1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.19 3.50 21.03	46.81
	22 13 16 00-0465	EA	1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.85 3.50 21.03	46.81
22 13 16 00-0466 No Hub Couplings <small>(22 13 16 00-0278)</small>					
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).					
	22 13 16 00-0467	EA	1-1/2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0468	EA	2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	13.58 1.77 3.67	
	22 13 16 00-0469	EA	3" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	16.12 2.10 4.35	
	22 13 16 00-0470	EA	4" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	19.14 2.49 5.17	
	22 13 16 00-0471	EA	5" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	44.25 5.75 11.95	
	22 13 16 00-0472	EA	6" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	48.63 6.32 13.13	
	22 13 16 00-0473	EA	8" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	91.61 11.91 24.73	
	22 13 16 00-0474	EA	10" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	126.20 16.41 34.07	
	22 13 16 00-0475	EA	2" x 1-1/2" No Hub Reducing Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	16.12 2.10 4.35	
	22 13 16 00-0476	EA	3" x 2" No Hub Reducing Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	25.00 3.17 6.34	
	22 13 16 00-0477	EA	4" x 2" No Hub Reducing Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	34.88 4.25 8.51	
	22 13 16 00-0478	EA	4" x 3" No Hub Reducing Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	29.72 3.56 7.12	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>					
Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.					
	22 13 16 00-0480	EA	1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	33.37 4.04 8.08	
	22 13 16 00-0481	EA	2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	34.45 4.17 8.34	
	22 13 16 00-0482	EA	3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	36.17 4.39 8.78	
	22 13 16 00-0483	EA	4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	42.20 5.06 10.12	
	22 13 16 00-0484	EA	5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	79.66 9.56 19.12	
	22 13 16 00-0485	EA	6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	109.38 13.12 26.24	
	22 13 16 00-0486	EA	8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	191.63 23.00 46.00	
	22 13 16 00-0487	EA	10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	292.82 35.35 70.70	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0488	Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small>		
	Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489	EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	12.67	
	<i>For Work In Restricted Working Space, Add</i>	3.80	
22 13 16 00-0490	EA Cut And Prepare 2" Cast Iron Pipe, No Hub	15.50	
	<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0491	EA Cut And Prepare 3" Cast Iron Pipe, No Hub	16.91	
	<i>For Work In Restricted Working Space, Add</i>	5.07	
22 13 16 00-0492	EA Cut And Prepare 4" Cast Iron Pipe, No Hub	21.13	
	<i>For Work In Restricted Working Space, Add</i>	6.34	
22 13 16 00-0493	EA Cut And Prepare 6" Cast Iron Pipe, No Hub	25.35	
	<i>For Work In Restricted Working Space, Add</i>	7.61	
22 13 16 00-0494	EA Cut And Prepare 8" Cast Iron Pipe, No Hub	33.80	
	<i>For Work In Restricted Working Space, Add</i>	10.14	
22 13 16 00-0495	EA Cut And Prepare 10" Cast Iron Pipe, No Hub	39.44	
	<i>For Work In Restricted Working Space, Add</i>	11.83	
22 13 16 00-0496	Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small>		
	See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497	LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	16.60	6.09
22 13 16 00-0498	LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	19.58	6.80
22 13 16 00-0499	LF 2" Hard Drawn DWV Copper Tube/Pipe	25.02	8.40
22 13 16 00-0500	LF 3" Hard Drawn DWV Copper Tube/Pipe	56.54	11.63
22 13 16 00-0501	LF 4" Hard Drawn DWV Copper Tube/Pipe	75.77	13.12
22 13 16 00-0502	LF 5" Hard Drawn DWV Copper Tube/Pipe	137.87	15.07
22 13 16 00-0503	LF 6" Hard Drawn DWV Copper Tube/Pipe	198.56	23.35
22 13 16 00-0504	Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
	Note: Aboveground installation. See CSI section 33 31 11 00-0002 for underground installation.		
22 13 16 00-0505	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small>		
	Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	26.70	5.44
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	6.24	
22 13 16 00-0507	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	29.83	6.48
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	6.94	
22 13 16 00-0508	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	40.51	9.34
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	8.63	
22 13 16 00-0509	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	48.18	10.11
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	9.42	
22 13 16 00-0510	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	70.00	12.97
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	12.07	
22 13 16 00-0511	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	88.45	17.24
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	13.83	
22 13 16 00-0512	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	121.90	23.08
	Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
	<i>For Work In Restricted Working Space, Add</i>	18.02	
22 13 16 00-0513	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>		
	Note: Excludes fittings or hangers.		
22 13 16 00-0514	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0513)</small>		
	Note: Excludes fittings or hangers.		
22 13 16 00-0515	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	9.81	5.44
	<i>For Work In Restricted Working Space, Add</i>	2.43	
22 13 16 00-0516	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	11.95	6.48
	<i>For Work In Restricted Working Space, Add</i>	2.92	
22 13 16 00-0517	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	18.42	9.34
	<i>For Work In Restricted Working Space, Add</i>	4.18	
22 13 16 00-0518	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	21.45	10.11
	<i>For Work In Restricted Working Space, Add</i>	4.54	
22 13 16 00-0519	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	28.48	11.52
	<i>For Work In Restricted Working Space, Add</i>	5.18	
22 13 16 00-0520	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	40.09	15.33
	<i>For Work In Restricted Working Space, Add</i>	6.92	
22 13 16 00-0521	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe	56.84	20.52
	<i>For Work In Restricted Working Space, Add</i>	9.22	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0522	Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.			
22 13 16 00-0523	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	9.30 2.43		5.44
22 13 16 00-0524	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.34 2.92		6.48
22 13 16 00-0525	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	17.27 4.18		9.34
22 13 16 00-0526	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.92 4.54		10.11
22 13 16 00-0527	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	25.63 5.18		11.52
22 13 16 00-0528	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	36.09 6.92		15.33
22 13 16 00-0529	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	52.49 9.22		20.52
22 13 16 00-0530	Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>			
22 13 16 00-0531	Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0532	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	36.36 9.73		21.66
22 13 16 00-0533	EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	46.50 12.45		27.62
22 13 16 00-0534	EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	71.28 16.73		37.08
22 13 16 00-0535	EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	97.78 19.45		43.18
22 13 16 00-0536	EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	284.73 25.29		56.15
22 13 16 00-0537	EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	456.80 34.04		75.61
22 13 16 00-0538	EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	603.94 45.38		100.76
22 13 16 00-0539	Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0540	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	47.41 9.73		21.66
22 13 16 00-0541	EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	52.86 12.45		27.62
22 13 16 00-0542	EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	87.64 16.73		37.08
22 13 16 00-0543	EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	127.77 19.45		43.18
22 13 16 00-0544	EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	226.80 25.29		56.15
22 13 16 00-0545	EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	380.68 34.04		75.61
22 13 16 00-0546	EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	602.58 45.38		100.76
22 13 16 00-0547	Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0530)</small>			
22 13 16 00-0548	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	37.27 9.73		21.66
22 13 16 00-0549	EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	46.42 12.45		27.62
22 13 16 00-0550	EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	69.92 16.73		37.08
22 13 16 00-0551	EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	91.12 19.45		43.18
22 13 16 00-0552	EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	267.77 25.29		56.15
22 13 16 00-0553	EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	417.37 34.04		75.61
22 13 16 00-0554	EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	487.97 45.38		100.76
22 13 16 00-0555	Polyvinyl Chloride (PVC) DWV Sanitary Tees <small>(22 13 16 00-0530)</small>			
22 13 16 00-0556	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	55.67 14.59		32.42
22 13 16 00-0557	EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	72.31 18.67		41.50
22 13 16 00-0558	EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	110.45 25.09		55.76
22 13 16 00-0559	EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	148.37 29.18		64.84



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0560	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	423.73 37.93	84.16
22 13 16 00-0561	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	554.53 51.06	113.33
22 13 16 00-0562			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0563	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	65.89 15.95	35.40
22 13 16 00-0564	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	75.28 17.31	38.38
22 13 16 00-0565	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	67.78 17.31	38.38
22 13 16 00-0566	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	92.49 21.59	47.98
22 13 16 00-0567	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	96.05 22.95	50.97
22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	108.61 24.32	53.94
22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	154.88 25.68	57.05
22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	186.92 27.82	61.72
22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	404.23 35.01	77.68
22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,146.72 43.77	97.12
22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,188.71 46.68	103.61
22 13 16 00-0574			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	86.04 19.45	43.18
22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	114.04 24.90	55.24
22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	198.60 33.46	74.31
22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	269.68 38.90	86.36
22 13 16 00-0579			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0530)</small>		
22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	101.98 22.17	49.28
22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	154.10 26.45	58.74
22 13 16 00-0582	EA		3" x 2" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	175.36 29.18	64.84
22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	278.33 31.90	70.81
22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	297.32 36.18	80.27
22 13 16 00-0585			Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0530)</small>		
22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	44.84 11.09	24.64
22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	69.23 13.23	29.31
22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	69.68 14.59	32.42
22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	94.82 15.95	35.40
22 13 16 00-0590	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	103.84 18.09	40.20
22 13 16 00-0591	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	289.99 21.01	46.68
22 13 16 00-0592	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	251.22 22.37	49.67
22 13 16 00-0593	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	573.91 26.75	59.39
22 13 16 00-0594	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	497.72 29.66	65.88
22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	660.65 35.34	78.45
22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	539.63 39.71	88.18
22 13 16 00-0597			Polyvinyl Chloride (PVC) DWV P-Traps <small>(22 13 16 00-0530)</small>		
22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	62.41 14.59	32.42



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	81.02 18.67	41.50
22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	177.16 25.09	55.76
22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	319.96 29.18	64.84
22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	520.19 37.93	84.16
22 13 16 00-0603			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)		
22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	91.27 19.45	43.18
22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	78.78 18.09	40.20
22 13 16 00-0606			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)		
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	62.72 14.59	32.42
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	76.40 18.67	41.50
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	115.67 25.09	55.76
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	156.93 29.18	64.84
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	391.63 37.93	84.16
22 13 16 00-0612	EA		8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	493.54 51.06	113.33
22 13 16 00-0613	EA		10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	651.22 68.08	151.07
22 13 16 00-0614			Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)		
22 13 16 00-0615	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	78.31 15.95	35.40
22 13 16 00-0616	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	82.62 17.31	38.38
22 13 16 00-0617	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	111.11 21.59	47.98
22 13 16 00-0618	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	101.27 22.95	50.97
22 13 16 00-0619	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	143.19 24.32	53.94
22 13 16 00-0620	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	133.52 25.68	57.05
22 13 16 00-0621	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	148.68 27.82	61.72
22 13 16 00-0622	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	352.74 33.65	74.69
22 13 16 00-0623	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	424.40 35.01	77.68
22 13 16 00-0624	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	423.03 43.77	97.12
22 13 16 00-0625	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	518.23 46.68	103.61
22 13 16 00-0626	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	495.94 55.11	122.29
22 13 16 00-0627	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	598.52 58.03	128.77
22 13 16 00-0628	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	687.27 62.40	138.49
22 13 16 00-0629			Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0530)		
22 13 16 00-0630	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	94.83 19.45	43.18
22 13 16 00-0631	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	121.53 24.90	55.24
22 13 16 00-0632	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	211.10 33.46	74.31
22 13 16 00-0633	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	331.55 38.90	86.36
22 13 16 00-0634	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	625.77 50.57	112.30
22 13 16 00-0635	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	742.93 68.08	151.20
22 13 16 00-0636	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,124.78 90.77	201.51
22 13 16 00-0637			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0530)		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0638 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	109.12 22.17	49.28
22 13 16 00-0639 EA 3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	175.55 26.45	58.74
22 13 16 00-0640 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	171.39 29.18	64.84
22 13 16 00-0641 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	227.35 31.90	70.81
22 13 16 00-0642 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	280.45 36.18	80.27
22 13 16 00-0643 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	411.67 44.74	99.33
22 13 16 00-0644 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	484.02 53.49	118.78
22 13 16 00-0645 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	599.68 59.33	131.75
22 13 16 00-0646 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	637.62 64.84	143.94
22 13 16 00-0647 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	802.63 70.67	156.90
22 13 16 00-0648 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	959.34 79.42	176.36
22 13 16 00-0649 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0650 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	71.50 14.59	32.42
22 13 16 00-0651 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	90.11 18.67	41.50
22 13 16 00-0652 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	156.86 25.09	55.76
22 13 16 00-0653 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	249.31 29.18	64.84
22 13 16 00-0654 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0655 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	115.41 17.31	38.38
22 13 16 00-0656 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	172.22 21.59	47.98
22 13 16 00-0657 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	139.16 22.95	50.97
22 13 16 00-0658 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	224.97 25.68	57.05
22 13 16 00-0659 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	243.69 27.82	61.72
22 13 16 00-0660 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0661 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	101.64 19.45	43.18
22 13 16 00-0662 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	122.29 24.90	55.24
22 13 16 00-0663 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	179.82 33.46	74.31
22 13 16 00-0664 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	489.51 38.90	86.36
22 13 16 00-0665 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,474.96 50.57	112.30
22 13 16 00-0666 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0530)		
22 13 16 00-0667 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	194.33 22.17	49.28
22 13 16 00-0668 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	301.27 29.18	64.84
22 13 16 00-0669 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	486.54 31.90	70.81
22 13 16 00-0670 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	453.35 36.18	80.27
22 13 16 00-0671 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	1,002.59 44.74	99.33
22 13 16 00-0672 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0530)		
22 13 16 00-0673 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	129.27 18.67	41.50
22 13 16 00-0674 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	211.69 25.09	55.76



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0675	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	320.00 29.18	64.84
22 13 16 00-0676	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	773.65 37.93	84.16
22 13 16 00-0677	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	976.02 51.06	113.33
22 13 16 00-0678	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	1,295.78 68.08	151.07
22 13 16 00-0679			Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0530)</small>		
22 13 16 00-0680	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	44.01 9.73	21.66
22 13 16 00-0681	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	60.20 12.45	27.62
22 13 16 00-0682	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	84.54 16.73	37.08
22 13 16 00-0683	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	132.46 19.45	43.18
22 13 16 00-0684	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	269.89 25.29	56.15
22 13 16 00-0685	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	566.03 34.04	75.61
22 13 16 00-0686	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	1,012.13 45.36	100.76
22 13 16 00-0687			Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0530)</small>		
22 13 16 00-0688	EA		1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	35.85 9.73	21.66
22 13 16 00-0689	EA		2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	45.36 12.45	27.62
22 13 16 00-0690	EA		3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	65.63 16.73	37.08
22 13 16 00-0691	EA		4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	81.06 19.45	43.18
22 13 16 00-0692	EA		6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	173.81 25.29	56.15
22 13 16 00-0693	EA		8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	372.06 34.04	75.61
22 13 16 00-0694	EA		10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	552.02 45.39	100.76
22 13 16 00-0695			Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0530)</small>		
22 13 16 00-0696	EA		1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	19.69 4.86	10.76
22 13 16 00-0697	EA		2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	29.29 6.22	13.87
22 13 16 00-0698	EA		3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	51.59 8.36	18.54
22 13 16 00-0699	EA		4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	86.75 9.73	21.66
22 13 16 00-0700			Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>		
			Note: In place piping.		
22 13 16 00-0701	EA		1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	9.50	
22 13 16 00-0702	EA		2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	10.46	
22 13 16 00-0703	EA		3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	13.30	
22 13 16 00-0704	EA		4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	17.96	
22 13 16 00-0705	EA		6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	25.66	
22 13 16 00-0706	EA		8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	34.22	
22 13 16 00-0707	EA		10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe	41.84	
22 13 16 00-0708			Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
			Note: Aboveground installation.		
22 13 16 00-0709			Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0708)</small>		
			Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	28.47 7.46	5.44
22 13 16 00-0711	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>	31.59 8.26	6.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	41.55 10.26	9.34
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	47.20 11.40	10.11
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	72.72 15.16	12.97
22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0708)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.10 2.43	5.44
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.40 2.92	6.48
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	19.47 4.18	9.34
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.04 4.54	10.11
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	33.39 5.18	11.52
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0708)</small>		
22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	40.89 9.73	21.66
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	53.59 12.45	27.62
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	93.05 16.73	37.08
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	137.91 19.45	43.18
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	357.02 25.29	56.15
22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.61 9.73	21.66
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	65.04 12.45	27.62
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	121.49 16.73	37.08
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	194.48 19.45	43.18
22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	42.48 9.73	21.66
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.48 12.45	27.62
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	87.22 16.73	37.08
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	127.15 19.45	43.18
22 13 16 00-0738 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	368.38 25.29	56.15
22 13 16 00-0739 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0740 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.06 14.59	32.42
22 13 16 00-0741 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	83.93 18.67	41.50
22 13 16 00-0742 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	138.90 25.09	55.76
22 13 16 00-0743 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	203.44 29.18	64.84
22 13 16 00-0744 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	701.97 37.93	84.16



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0745			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0746	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 76.18 <i>For Work In Restricted Working Space, Add</i> 15.95	76.18	35.40
22 13 16 00-0747	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 90.02 <i>For Work In Restricted Working Space, Add</i> 17.31	90.02	38.38
22 13 16 00-0748	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 78.50 <i>For Work In Restricted Working Space, Add</i> 17.31	78.50	38.38
22 13 16 00-0749	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 114.18 <i>For Work In Restricted Working Space, Add</i> 21.59	114.18	47.98
22 13 16 00-0750	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 119.11 <i>For Work In Restricted Working Space, Add</i> 22.95	119.11	50.97
22 13 16 00-0751	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees 234.09 <i>For Work In Restricted Working Space, Add</i> 24.32	234.09	53.94
22 13 16 00-0752	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 228.44 <i>For Work In Restricted Working Space, Add</i> 25.68	228.44	57.05
22 13 16 00-0753	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 260.24 <i>For Work In Restricted Working Space, Add</i> 27.82	260.24	61.72
22 13 16 00-0754	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... 760.20 <i>For Work In Restricted Working Space, Add</i> 35.01	760.20	77.68
22 13 16 00-0755			Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0756	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 108.67 <i>For Work In Restricted Working Space, Add</i> 19.45	108.67	43.18
22 13 16 00-0757	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 146.94 <i>For Work In Restricted Working Space, Add</i> 24.90	146.94	55.24
22 13 16 00-0758	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 291.16 <i>For Work In Restricted Working Space, Add</i> 33.46	291.16	74.31
22 13 16 00-0759	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 417.58 <i>For Work In Restricted Working Space, Add</i> 38.90	417.58	86.36
22 13 16 00-0760			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0721)</small>		
22 13 16 00-0761	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 123.62 <i>For Work In Restricted Working Space, Add</i> 22.17	123.62	49.28
22 13 16 00-0762	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 179.73 <i>For Work In Restricted Working Space, Add</i> 26.45	179.73	58.74
22 13 16 00-0763	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 205.59 <i>For Work In Restricted Working Space, Add</i> 29.18	205.59	64.84
22 13 16 00-0764	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 333.11 <i>For Work In Restricted Working Space, Add</i> 28.36	333.11	62.94
22 13 16 00-0765	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees 352.38 <i>For Work In Restricted Working Space, Add</i> 32.16	352.38	71.36
22 13 16 00-0766			Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0767	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 77.68 <i>For Work In Restricted Working Space, Add</i> 14.59	77.68	32.42
22 13 16 00-0768	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 92.07 <i>For Work In Restricted Working Space, Add</i> 18.67	92.07	41.50
22 13 16 00-0769	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 149.65 <i>For Work In Restricted Working Space, Add</i> 25.09	149.65	55.76
22 13 16 00-0770	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 220.24 <i>For Work In Restricted Working Space, Add</i> 29.18	220.24	64.84
22 13 16 00-0771	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... 577.70 <i>For Work In Restricted Working Space, Add</i> 37.93	577.70	84.16
22 13 16 00-0772			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0773	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes 105.00 <i>For Work In Restricted Working Space, Add</i> 15.95	105.00	35.40
22 13 16 00-0774	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 109.01 <i>For Work In Restricted Working Space, Add</i> 17.31	109.01	38.38
22 13 16 00-0775	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 127.81 <i>For Work In Restricted Working Space, Add</i> 22.95	127.81	50.97
22 13 16 00-0776	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 184.40 <i>For Work In Restricted Working Space, Add</i> 25.68	184.40	57.05
22 13 16 00-0777	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 208.16 <i>For Work In Restricted Working Space, Add</i> 27.82	208.16	61.72
22 13 16 00-0778	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... 489.55 <i>For Work In Restricted Working Space, Add</i> 35.01	489.55	77.68
22 13 16 00-0779			Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0721)</small>		
22 13 16 00-0780	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 126.62 <i>For Work In Restricted Working Space, Add</i> 19.45	126.62	43.18
22 13 16 00-0781	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 162.46 <i>For Work In Restricted Working Space, Add</i> 24.90	162.46	55.24
22 13 16 00-0782	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes 316.97 <i>For Work In Restricted Working Space, Add</i> 33.46	316.97	74.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0783 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	545.85 38.90	86.36
22 13 16 00-0784 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0721)		
22 13 16 00-0785 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	146.49 22.17	49.28
22 13 16 00-0786 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	233.10 26.45	58.74
22 13 16 00-0787 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	249.79 29.18	64.84
22 13 16 00-0788 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	355.85 31.90	70.81
22 13 16 00-0789 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	450.19 36.18	80.27
22 13 16 00-0790 Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0791 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	95.03 14.59	32.42
22 13 16 00-0792 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	122.54 18.67	41.50
22 13 16 00-0793 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	183.00 25.09	55.76
22 13 16 00-0794 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	281.51 25.94	57.64
22 13 16 00-0795 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0796 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	106.54 17.31	38.38
22 13 16 00-0797 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	187.61 21.59	47.98
22 13 16 00-0798 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	148.77 22.95	50.97
22 13 16 00-0799 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	246.55 25.68	57.05
22 13 16 00-0800 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	267.02 27.82	61.72
22 13 16 00-0801 Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0802 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	192.16 24.90	55.24
22 13 16 00-0803 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	363.32 33.46	74.31
22 13 16 00-0804 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0721)		
22 13 16 00-0805 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	161.77 22.17	49.28
22 13 16 00-0806 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	344.76 29.18	64.84
22 13 16 00-0807 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0721)		
22 13 16 00-0808 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	103.21 14.59	32.42
22 13 16 00-0809 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	130.72 18.67	41.50
22 13 16 00-0810 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	201.27 25.09	55.76
22 13 16 00-0811 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	317.14 29.18	64.84
22 13 16 00-0812 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0721)		
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	51.13 9.73	21.66
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	71.70 12.45	27.62
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	102.16 16.73	37.08
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	174.08 19.45	43.18



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	384.20 25.29	56.15
22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0721)		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.87 9.73	21.66
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	48.30 12.45	27.62
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	74.26 16.73	37.08
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	95.33 19.45	43.18
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	235.02 25.29	56.15
22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0721)		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	53.31 11.09	24.64
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	95.92 13.23	29.31
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	92.09 14.59	32.42
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	138.89 15.95	35.40
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	149.99 18.09	40.20
22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0721)		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	80.32 14.59	32.42
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	113.54 18.67	41.50
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	318.61 25.09	55.76
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	578.66 29.18	64.84
22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0721)		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	109.09 19.45	43.18
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	101.81 18.09	40.20
22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0721)		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.44 4.86	10.76
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.33 6.22	13.87
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	70.37 8.36	18.54
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	126.42 9.73	21.66
22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0721)		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.76 11.09	24.64
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	80.77 13.23	29.31
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	71.94 14.59	32.42
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	137.71 15.95	35.40
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	109.29 18.09	40.20
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	258.39 19.88	44.15
22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0721)		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling..... <i>For Work In Restricted Working Space, Add</i>	89.21 9.73	21.66
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	102.08 12.45	27.62
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	120.13 16.73	37.08



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0854	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	132.99 19.45	43.18
22 13 16 00-0855			Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe <small>(22 13 16 00-0708)</small> Note: In place piping.		
22 13 16 00-0856	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	9.50	
22 13 16 00-0857	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	10.46	
22 13 16 00-0858	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	13.30	
22 13 16 00-0859	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	17.96	
22 13 16 00-0860	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	25.66	
22 13 16 00-0861			Elastomeric Flexible Pipe Couplings <small>(22 13 16)</small>		
22 13 16 00-0862			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0863	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)	17.44	5.63
			<i>For Work In Restricted Working Space, Add</i>	3.38	
22 13 16 00-0864	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	18.81	5.98
			<i>For Work In Restricted Working Space, Add</i>	3.59	
22 13 16 00-0865	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	19.77	6.34
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 13 16 00-0866	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	22.97	6.69
			<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0867	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	26.10	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0868	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	33.61	7.39
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0869	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	41.18	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0870	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	56.41	8.45
			<i>For Work In Restricted Working Space, Add</i>	5.07	
22 13 16 00-0871	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	74.63	9.86
			<i>For Work In Restricted Working Space, Add</i>	5.92	
22 13 16 00-0872			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0873	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)	18.57	5.98
			<i>For Work In Restricted Working Space, Add</i>	3.59	
22 13 16 00-0874	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)	20.17	6.34
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 13 16 00-0875	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)	24.95	6.69
			<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0876	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)	22.25	6.69
			<i>For Work In Restricted Working Space, Add</i>	4.01	
22 13 16 00-0877	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)	30.97	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0878	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)	29.59	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0879	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)	27.02	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
22 13 16 00-0880	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)	39.64	7.39
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0881	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)	35.71	7.39
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 13 16 00-0882	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)	49.29	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0883	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64)	43.42	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0884	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65)	45.05	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.65	
22 13 16 00-0885	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84)	88.62	14.09
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 13 16 00-0886	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86)	72.33	14.09
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 13 16 00-0887	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)	91.83	15.85
			<i>For Work In Restricted Working Space, Add</i>	9.51	
22 13 16 00-0888			Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0889	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	62.89	38.02
22 13 16 00-0890	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	67.53	40.42
22 13 16 00-0891	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	78.28	46.34
22 13 16 00-0892	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	103.26	61.26
22 13 16 00-0893	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	123.83	73.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0894 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	142.54	84.51
22 13 16 00-0895 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	192.45	107.04
22 13 16 00-0896 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	238.83	119.71
22 13 16 00-0897 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	305.92	133.10
22 13 16 00-0898 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0899 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	103.22	29.18
22 13 16 00-0900 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	109.71	32.42
22 13 16 00-0901 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	161.21	42.14
22 13 16 00-0902 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	188.61	48.63
22 13 16 00-0903 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	219.19	55.11
22 13 16 00-0904 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	353.95	61.59
22 13 16 00-0905 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0906 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	199.41	29.18
22 13 16 00-0907 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	205.90	32.42
22 13 16 00-0908 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	246.44	42.14
22 13 16 00-0909 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	306.42	48.63
22 13 16 00-0910 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	413.43	55.11
22 13 16 00-0911 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	426.40	61.59
22 13 16 00-0912 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0913 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	367.74	29.18
22 13 16 00-0914 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	374.23	32.42
22 13 16 00-0915 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	432.35	42.14
22 13 16 00-0916 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	487.22	48.63
22 13 16 00-0917 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	567.86	55.11
22 13 16 00-0918 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	621.12	61.59
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	774.99	139.40
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	853.07	156.26
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	842.04	172.86
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	877.64	190.75
<i>For Galvanized Cast Iron Parts, Add</i>		
105.00		
<i>For Sediment Bucket, Add</i>		
22.50		
<i>For Vandal Proof Screws, Add</i>		
11.00		
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	785.84	156.26
<i>For Galvanized Cast Iron Parts, Add</i>		
87.50		
<i>For Vandal Proof Screws, Add</i>		
30.50		
<i>For Ductile Iron Grate, Add</i>		
48.00		
<i>For Cast Iron Dome Grate, Add</i>		
17.00		
<i>For Nikaloy Dome Grate, Add</i>		
178.50		
<i>For Bronze Dome Grate, Add</i>		
143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>		
57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i>		
117.50		
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	819.17	172.86
<i>For Galvanized Cast Iron Parts, Add</i>		
87.50		
<i>For Vandal Proof Screws, Add</i>		
30.50		
<i>For Ductile Iron Grate, Add</i>		
48.00		
<i>For Cast Iron Dome Grate, Add</i>		
17.00		
<i>For Nikaloy Dome Grate, Add</i>		
178.50		
<i>For Bronze Dome Grate, Add</i>		
143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>		
57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i>		
117.50		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	854.77	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,256.92	156.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,290.25	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,325.85	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,188.31	156.26
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,221.46	172.86
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,257.24	190.75
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,297.93	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,331.23	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,367.01	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,002.27	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,035.57	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,071.35	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021 EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,908.51	156.13
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0022 EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,941.81	172.86
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0023 EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,977.59	190.75
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0024 Square Or Rectangular Top Drains <small>(22 13 19 13)</small>		
22 13 19 13-0025 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top	916.04	156.13
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	949.70	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	985.12	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	984.64	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,018.30	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,053.72	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,286.50	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,320.16	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,355.58	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	865.73	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	899.39	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	934.81	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	952.62	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	986.28	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,021.70	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,197.31	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,230.97	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,266.39	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....	2,996.38	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....	3,031.80	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....	3,741.88	172.99
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....	3,777.30	190.75
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	3,652.69	172.99
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	3,688.11	190.75
<i>For Chained Grate, Add</i>	48.50	
<i>For No-Hub Side Outlet, Add</i>	76.00	
<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,304.79	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,338.45	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,373.87	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,659.25	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,692.91	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,728.33	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,741.57	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,775.23	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,810.65	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,379.59	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,413.25	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,448.67	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,231.61	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,265.27	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,300.69	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,533.47	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,567.13	172.99
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,602.55	190.75
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,615.80	156.13
<i>For Sediment Bucket, Add</i>	22.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<i>For Rough Bronze Body, Add</i>	120.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,649.46	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,684.88	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,134.90	156.13
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,168.56	172.99
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,203.98	190.75
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0073 Funnel Type Floor Drains <small>(22 13 19 13)</small>					
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,227.89	139.40
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,261.34	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,294.64	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,330.42	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	1,775.87	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	1,809.17	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	1,844.95	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,686.69	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,719.99	172.86
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	1,755.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,535.82	139.40
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	2,569.39	156.13
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	2,602.69	172.86
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap	2,638.47	190.75
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	2,675.38	209.17
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,743.19	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,776.85	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,812.27	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron	2,849.18	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,711.84	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,745.50	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,780.92	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron	1,817.83	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,564.82	156.13
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,598.48	172.99
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,633.90	190.75
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron	2,670.81	209.17
Grate	29.50	
For Vandal Proof Screws, Add	31.00	
For Primer Tap, Add	77.50	
For Aluminum Bucket, Add	273.75	
For Galvanized Cast Iron Parts, Add		
22 13 19 13-0102 Other Drains <small>(22 13 19 13)</small>		
22 13 19 13-0103 Shower Drains <small>(22 13 19 13-0102)</small>		
22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer	48.41	14.09
Note: Includes two 2-5/8" screws.		
22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer	53.18	14.09
Note: Includes two 2-5/8" screws.		

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe..... Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	113.72	28.17
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket..... Note: For 2" pipe. Kohler K-9132.	141.14	28.17
22 13 19 13-0108			Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,236.92 87.50 33.50 30.50	139.40
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,270.49 87.50 33.50 30.50	156.13
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,303.79 87.50 33.50 30.50	172.86
22 13 19 13-0112			Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113	EA		Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0114	EA		Lever Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0115	EA		Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0116	EA		Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0117	EA		Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	278.00	94.02
22 13 19 13-0118	EA		Twist Drain, 2" Drain, 3" Sink Opening.....	297.45	103.74
22 13 19 13-0119	EA		Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	278.00	94.02
22 13 19 13-0120	EA		Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	297.45	103.74
22 13 19 13-0121	EA		Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	366.87	103.74
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122) Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,510.81 58.50 97.00 38.00 36.00 33.50 47.00 62.50	156.26
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,544.63 58.50 97.00 38.00 36.00 33.50 47.00 62.50	173.11
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,579.68 58.50 97.00 38.00 36.00 33.50 47.00 62.50	190.75
22 13 19 13-0127			Square Top Floor Receptors (22 13 19 13-0122) Note: With acid resistant coating.		
22 13 19 13-0128	EA		8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,760.72 37.50 69.00 39.50 36.00 15.50 88.00 97.00	139.40
22 13 19 13-0129	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,794.32 37.50 69.00 39.50 36.00 15.50 88.00 97.00	156.26



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 19	13-0130	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,827.47 37.50 69.00 39.50 36.00 15.50 88.00 97.00	172.86
	22 13 19	13-0131	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,863.25 37.50 69.00 39.50 36.00 15.50 88.00 97.00	190.75
22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)						
	22 13 19	13-0133	EA	3" Trap Guard Floor Drain Insert (ProVent TG3H)..... Note: Prevents emission of sewer gases.	100.12	16.21
	22 13 19	13-0134	EA	2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) Note: Prevents emission of sewer gases.	83.20	16.21
	22 13 19	13-0135	EA	3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) Note: Prevents emission of sewer gases.	89.96	16.21
	22 13 19	13-0136	EA	3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP)..... Note: Prevents emission of sewer gases.	106.89	16.21
	22 13 19	13-0137	EA	3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP)..... Note: Prevents emission of sewer gases.	96.74	16.21
	22 13 19	13-0138	EA	2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) Note: Prevents emission of sewer gases.	134.23	16.21
	22 13 19	13-0139	EA	3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) Note: Prevents emission of sewer gases.	147.86	16.21
	22 13 19	13-0140	EA	4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) Note: Prevents emission of sewer gases.	181.69	16.21
22 13 19 26 Grease Removal Devices (22 13 19)						
	22 13 19	26-0001		Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
	22 13 19	26-0002		Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
	22 13 19	26-0003	EA	7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60102H. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,131.29 1,352.91	97.26
	22 13 19	26-0004	EA	10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60103H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,316.34 406.05 1,432.27	218.83
	22 13 19	26-0005	EA	15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60104H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,841.16 422.26 1,565.06	243.14
	22 13 19	26-0006	EA	20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60105H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,213.35 438.47 1,692.42	267.46
	22 13 19	26-0007	EA	25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60106H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,475.00 485.07 1,765.05	291.77
	22 13 19	26-0008	EA	35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,032.24 528.69 1,946.16	340.40
	22 13 19	26-0009	EA	50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,933.35 602.07 2,080.23	389.02
	22 13 19	26-0010	EA	75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	7,601.14 835.77	437.65
	22 13 19	26-0011	EA	100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	8,576.95 949.08	511.61
	22 13 19	26-0012	EA	150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	10,646.49 1,313.72	818.58
	22 13 19	26-0013	EA	200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	15,225.82 1,579.44	1,023.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	17,772.96	1,227.88
<i>For Flange And Clamp Device, Add</i>	2,028.82	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.,	23,037.68	1,432.52
<i>For Flange And Clamp Device, Add</i>	2,403.02	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	29,731.06	1,637.16
<i>For Flange And Clamp Device, Add</i>	2,812.73	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0001)</small> Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,139.67	267.46
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,037.51	340.40
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	6,590.68	389.02
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	2,743.00	97.26
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,352.91	
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,221.62	218.83
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,432.27	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	3,445.85	243.14
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,565.06	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	4,193.48	267.46
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,692.42	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	5,042.86	291.77
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,765.05	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	5,229.92	340.40
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,946.16	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	5,970.21	389.02
<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,080.23	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	6,979.64	340.40
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	6,026.41	267.46
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	6,986.87	291.77
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	6,037.37	340.40
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor.....	6,730.99	446.78
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor.....	7,708.75	446.78
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor.....	8,748.88	510.77
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor.....	9,939.47	721.34
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor.....	11,172.54	970.50
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor.....	16,778.67	1,276.86
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor.....	21,487.47	2,093.86
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,499.88	370.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,038.31	440.14
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,314.77	541.55
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	7,944.23	586.61
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,509.13	640.13
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,479.92	704.21
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,795.91	810.47
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	22,780.58	997.20
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	27,912.61	1,080.85
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	38,976.16	1,296.75
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	44,922.46	1,394.01
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	56,553.50	1,662.44
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	68,029.27	1,362.24
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	80,591.24	1,620.95
 22 13 19 33 Backwater Valves (22 13 19)		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	356.53	37.21
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	370.79	46.81
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	531.72	62.24
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,373.86	80.58
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,683.95	106.05
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	4,779.58	130.84
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	5,425.71	169.69
 22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	897.56	88.73
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,346.55	107.63
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,670.36	138.76
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,292.39	146.41
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,156.25	173.49
 22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,329.69	140.44
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,399.19	186.73
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,445.83	216.84
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	3,483.52	241.74
 22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	136.30	46.81
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	166.30	62.24
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	431.99	80.58
 22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	313.50	93.62
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	417.43	124.49
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	683.49	161.16
Note: Includes valve body, flapper assembly and collar.		
 22 13 19 36 Air-Admittance Valves (22 13 19)		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent	212.43	18.16
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent	252.77	18.16
 22 13 23 Sanitary Waste Interceptors (22 13)		
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180)	1,094.11	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184)	1,095.40	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,514.84	183.63
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,514.84	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,609.80	183.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	348.20	62.81
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	356.23	66.90
For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010 Sediment Strainers (22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	191.53	85.68
22 13 29 Sanitary Sewerage Pumps (22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13)		
Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,624.02	1,555.58
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	6,839.94	1,555.58
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,055.86	1,555.58
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	7,261.81	1,555.58
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,221.95	1,555.58
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,304.99	1,555.58
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,363.12	1,555.58
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,761.74	1,555.58
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,152.05	1,555.58
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,749.98	1,555.58
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	9,347.90	1,555.58
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	10,974.94	2,070.14
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,638.06	1,555.58
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,781.93	1,555.58
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,898.32	1,555.58
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,094.16	1,555.58
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,043.83	2,070.14
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	11,542.10	2,070.14
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	607.85	51.87
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	673.31	58.35
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	931.75	77.81



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
22 13 29 13-0038	EA			40" Steel Sump Covers, Square Or Round.....	1,334.36	90.78	
22 13 29 13-0039	EA			42" Steel Sump Covers, Square Or Round.....	1,427.73	94.02	
22 13 29 13-0040	EA			48" Steel Sump Covers, Square Or Round.....	1,524.32	97.26	
22 13 29 13-0041	EA			54" Steel Sump Covers, Square Or Round.....	1,936.03	116.71	
22 13 29 13-0042	EA			60" Steel Sump Covers, Square Or Round.....	2,599.35	129.67	
22 13 29 13-0043	EA			72" Steel Sump Covers, Square Or Round.....	3,295.92	162.10	
22 13 29 13-0044	EA			84" Steel Sump Covers, Square Or Round.....	4,167.48	178.30	
22 13 29 16	Submersible Sewerage Pumps (22 13 29)						
22 13 29 16-0001	Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)						
22 13 29 16-0002	Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)						
	Note: Includes 25' cord.						
22 13 29 16-0003	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,122.53	94.36	
22 13 29 16-0004	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,188.84	94.36	
22 13 29 16-0005	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,168.44	94.36	
22 13 29 16-0006	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36	
22 13 29 16-0007	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,266.21	94.36	
22 13 29 16-0008	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,362.15	117.95	
22 13 29 16-0009	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,448.87	117.95	
22 13 29 16-0010	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,459.92	117.95	
22 13 29 16-0011	Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)						
	Note: Includes 20' cord.						
22 13 29 16-0012	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,141.23	94.36	
22 13 29 16-0013	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,236.45	94.36	
22 13 29 16-0014	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,191.39	94.36	
22 13 29 16-0015	EA			1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,283.22	94.36	
22 13 29 16-0016	EA			1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,365.68	94.36	
22 13 29 16-0017	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,309.44	117.95	
22 13 29 16-0018	EA			1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,408.06	117.95	
22 13 29 16-0019	EA			1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,407.21	117.95	
22 13 29 16-0020	EA			1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,679.68	190.14	
22 13 29 16-0021	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,763.00	190.14	
22 13 29 16-0022	EA			1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,777.46	190.14	
22 13 29 16-0023	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,840.08	232.39	
22 13 29 16-0024	EA			2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,935.30	232.39	
22 13 29 16-0025	EA			2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,937.85	232.39	
22 13 29 16-0026	Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)						
	Note: Includes 20' cord.						
22 13 29 16-0027	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,331.68	94.36	
22 13 29 16-0028	EA			1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,493.22	94.36	
22 13 29 16-0029	EA			1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,490.53	117.95	
22 13 29 16-0030	EA			1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	1,588.30	117.95	
22 13 29 16-0031	EA			1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,874.38	190.14	
22 13 29 16-0032	EA			1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,972.15	190.14	
22 13 29 16-0033	EA			2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,035.62	232.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0034 EA 2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,133.40	232.39
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16) Note: Includes 25' of cord with pump.		
22 13 29 16-0036 EA 1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,166.63	117.95
22 13 29 16-0037 EA 1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,401.77	172.42
22 13 29 16-0038 EA 2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,674.39	210.73
22 13 29 16-0039 EA 3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,876.91	255.43
22 13 29 16-0040 EA 5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,362.15	300.13
22 13 29 16-0041 EA 7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,880.47	344.83
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16) Note: Includes 25' of cord with pump.		
22 13 29 16-0043 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,596.72	422.67
22 13 29 16-0044 EA 1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0045 EA 1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,186.82	422.67
22 13 29 16-0046 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,957.06	563.55
22 13 29 16-0047 EA 1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0048 EA 1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,547.17	563.55
22 13 29 16-0049 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,401.95	704.44
22 13 29 16-0050 EA 2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0051 EA 2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	5,992.05	704.44
22 13 29 16-0052 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,767.40	845.34
22 13 29 16-0053 EA 3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0054 EA 3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,357.51	845.34
22 13 29 16-0055 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,514.59	986.23
22 13 29 16-0056 EA 5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0057 EA 5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,104.69	986.23
22 13 29 16-0058 EA 7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0059 EA 7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,861.27	1,127.12
22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)		
22 13 29 16-0061 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	573.22	102.62
Note: Includes alarm horn, warning light and alarm float switch.		
22 13 29 16-0062 EA Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	589.46	102.62
Note: Includes alarm horn, warning light, and alarm float switch.		
22 13 29 16-0063 EA Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,111.96	136.83
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.		
22 13 29 16-0064 EA Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,527.86	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0065 EA Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,407.37	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0066 EA Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	3,560.51	136.83
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0067 EA Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	5,657.51	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		
22 13 29 16-0068 EA Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,786.31	171.03
Note: Includes alarm horn and warning light. Control float switches not included.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0069 EA Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps 1,247.79	1,247.79	171.03
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0070 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps 1,361.52	1,361.52	171.03
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0071 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps 1,311.97	1,311.97	171.03
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0072 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps 1,414.46	1,414.46	171.03
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps 2,329.87	2,329.87	171.03
Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure 462.57	462.57	68.41
Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord 104.15	104.15	34.21
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only 119.92	119.92	34.21
22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord 125.99	125.99	34.21
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only 131.60	131.60	34.21
22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats 324.47	324.47	34.21
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only 366.35	366.35	34.21
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords 358.27	358.27	34.21
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only 413.87	413.87	34.21
22 13 29 16-0083 EA Float Switch Tree 185.16	185.16	34.21
Note: Tree only.		
22 13 29 16-0084 EA Adjustable Weight For Float Switch 55.62	55.62	17.10
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge 918.27	918.27	102.62
Note: Lifting equipment not included.		
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge 1,421.28	1,421.28	136.83
Note: Lifting equipment not included.		
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge 1,850.54	1,850.54	171.03
Note: Lifting equipment not included.		
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge 1,967.37	1,967.37	102.62
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge 2,749.98	2,749.98	102.62
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System 294.01	294.01	68.41
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems 491.32	491.32	85.52
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems 505.25	505.25	102.62
22 13 29 16-0093 EA 12' Stainless Steel Lifting Cable 145.31	145.31	34.21
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge 261.94	261.94	34.21
Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001	Sewage Sump Pump Basin (22 13 29 33)	
22 13 29 33-0002	High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)	
22 13 29 33-0003	EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 118.91	118.91
22 13 29 33-0004	EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 147.44	147.44
22 13 29 33-0005	EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 292.89	292.89
22 13 29 33-0006	EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 398.63	398.63
22 13 29 33-0007	EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 504.37	504.37
22 13 29 33-0008	EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub 582.53	582.53

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010	EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub 332.43	332.43
22 13 29 33-0011	EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub 656.75	656.75
22 13 29 33-0012	EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub 1,165.40	1,165.40
22 13 29 33-0013	EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub 1,561.61	1,561.61
22 13 29 33-0014	EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub 1,797.02	1,797.02
22 13 29 33-0015	EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub 1,898.09	1,898.09
22 13 29 33-0016	EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub 2,226.20	2,226.20
22 13 29 33-0017	EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub 2,583.49	2,583.49

22 14 Facility Storm Drainage (22 10)

22 14 13	Facility Storm Drainage Piping (22 14)	
	See CSI section 22 13 16 00-0000 for storm drainage piping.	
22 14 26	Facility Storm Drains (22 14)	
22 14 26 13	Roof Drains (22 14 26)	
22 14 26 13-0001	Cast Iron Roof Drains (22 14 26 13)	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001) Note: Dome free area is 124 square inches.		
22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	958.92	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,066.98	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,175.04	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,563.37	389.02
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,617.40	432.21
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,885.15	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,482.21	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001) Note: With polypropylene dome. Dome free area is 124 square inches.		
22 14 26 13-0011 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	1,451.58	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0012 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	1,594.05	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0013 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	1,769.13	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0014 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	2,427.33	389.02
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0015 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	2,606.34	432.21
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top (22 14 26 13-0001)		
22 14 26 13-0017 EA 14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	1,936.24	216.17
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0018	EA		14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top.....	2,044.30	259.35
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0019	EA		14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top.....	2,152.36	324.19
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0020	EA		14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top.....	2,526.21	389.02
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0021	EA		14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top.....	2,580.24	432.21
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0022			Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)		
22 14 26 13-0023	EA		Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate.....	1,226.23	86.49
			<i>For Vandal Proof Grate, Add</i>	33.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	128.00	
22 14 26 13-0024	EA		Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate.....	1,269.45	108.02
			<i>For Vandal Proof Grate, Add</i>	33.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	128.00	
22 14 26 13-0025	EA		Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate.....	1,289.10	117.88
			<i>For Vandal Proof Grate, Add</i>	33.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	128.00	
			<i>For Galvanized Iron Parts, Add</i>	258.00	
22 14 26 13-0026	EA		Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate.....	1,809.22	156.26
			<i>For Vandal Proof Grate, Add</i>	33.00	
			<i>For Galvanized Iron Parts, Add</i>	258.00	
22 14 26 13-0027	EA		Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate.....	1,878.15	190.75
			<i>For Vandal Proof Grate, Add</i>	33.00	
			<i>For Galvanized Iron Parts, Add</i>	258.00	
22 14 26 13-0028			Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)		
			Note: Grate free area is 27 square inches.		
22 14 26 13-0029	EA		9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top.....	1,042.17	216.17
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0030	EA		9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top.....	1,150.23	259.35
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0031	EA		9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	1,258.29	324.19
			<i>For Galvanized Iron Parts, Add</i>	144.00	
			<i>For Deck Clamp Assembly, Add</i>	80.40	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	93.60	
22 14 26 13-0032			Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26 13-0033	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome	1,114.56	216.17
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0034	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome	1,222.62	259.35
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0035	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome	1,330.68	324.19
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0036	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome	1,719.01	389.02
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome	1,773.04	432.21
			<i>For Galvanized Iron Parts, Add</i>	518.00	
			<i>For Deck Clamp Assembly, Add</i>	130.00	
			<i>For Drain Receiver, Add</i>	147.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	2,040.80	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	2,637.86	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,141.71	216.17
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,249.77	259.35
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,357.83	324.19
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,800.19	431.82
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,068.20	453.86
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome.....	2,665.01	470.07
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049 Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome	853.97	259.35
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome	974.10	324.19
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome	1,184.45	389.02
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome	1,286.74	431.82
22 14 26 13-0054 Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	962.55	259.35
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,077.85	324.19
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,295.44	389.02
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,363.95	431.82
22 14 26 13-0059 Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	858.80	259.35
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	978.92	324.19
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,189.28	389.02
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,252.96	431.82
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	495.37	129.67
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	749.13	162.10
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	946.97	162.10



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,743.19	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,776.85	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,812.27	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,849.18	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,711.84	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,745.50	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0008 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,780.92	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0009 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,817.83	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0010 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,564.82	156.13
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0011 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,598.48	172.99
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0012 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,633.90	190.75
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0013 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,670.81	209.17
For Ductile Iron Grate, Add	123.50	
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	152.25	
22 14 26 16-0014 EA 16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,469.05	156.13
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	
22 14 26 16-0015 EA 16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,502.71	172.99
For Ductile Iron Grate, Add	123.50	
For Primer Tap, Add	36.00	
For Galvanized Cast Iron Parts, Add	258.50	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0016	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,538.13	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0017	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,575.04	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0018	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,702.03	156.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0019	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,735.69	172.99
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0020	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,771.11	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0021	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,808.02	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0022	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,187.78	156.13
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0023	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,221.44	172.99
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0024	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,256.86	190.75
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0025	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	5,293.77	209.17
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,256.77	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,290.43	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,325.85	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	785.69	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	819.35	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	854.77	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,188.16	156.13
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,221.82	172.99
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,257.24	190.75
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,664.77	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,698.43	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,733.85	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,404.74	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,438.40	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	2,473.82	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,445.24	156.13
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,478.90	172.99
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer	3,514.32	190.75
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	

22 14 26 19 Facility Trench Drains (22 14 26)

22 14 26 19-0001			Trench Drain (22 14 26 19) Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,082.80	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,116.46	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,151.88	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	684.88	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	718.54	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	753.96	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,028.58	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	

22	Plumbing
22 10	Plumbing Piping
22 14	Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,062.24	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,097.66	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	925.99	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	528.07	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	871.77	77.81
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,678.37	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,712.03	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,747.45	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,186.00	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,219.66	172.99
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,255.08	190.75
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,611.03	156.13
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0021	EA			12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,644.69	172.99
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022	EA			12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,680.11	190.75
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023	EA			12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,416.00	156.13
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0024	EA			12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,449.66	172.99
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025	EA			12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,485.08	190.75
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
				<i>For Sediment Bucket, Add</i>	116.00	
				<i>For Galvanized Sediment Bucket, Add</i>	188.50	
				<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026	EA			12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,521.54	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027	EA			12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,029.17	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028	EA			12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,454.20	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0029	EA			12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,259.17	77.81
				<i>For Vandal Proof Screws, Add</i>	48.50	
				<i>For Ductile Iron Grate, Add</i>	181.50	
				<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

22 14 29 Sump Pumps (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002	EA			1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	5,505.82	376.23
				<i>For Explosion Proof Motor, Add</i>	250.06	
22 14 29 13-0003	EA			1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	5,868.32	455.36
				<i>For Explosion Proof Motor, Add</i>	277.99	
22 14 29 13-0004	EA			2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	6,722.05	540.99
				<i>For Explosion Proof Motor, Add</i>	359.13	
22 14 29 13-0005	EA			3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	7,243.02	665.53
				<i>For Explosion Proof Motor, Add</i>	407.01	
22 14 29 13-0006	EA			5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	7,665.64	721.32
				<i>For Explosion Proof Motor, Add</i>	594.55	
22 14 29 13-0007	EA			10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	9,098.71	865.32
				<i>For Explosion Proof Motor, Add</i>	674.36	
22 14 29 13-0008	EA			15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	10,546.26	896.24
				<i>For Explosion Proof Motor, Add</i>	1,105.31	
22 14 29 13-0009	EA			20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	12,509.70	996.78
				<i>For Explosion Proof Motor, Add</i>	1,467.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0010	EA		30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	13,563.46 1,902.04	1,162.50
22 14 29 13-0011	EA		50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	18,104.03 2,477.98	1,395.49
22 14 29 13-0012	EA		60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	24,835.28 3,927.79	1,549.99
22 14 29 13-0013			Extra Column Assemblies <small>(22 14 29 13)</small>		
22 14 29 13-0014	EA		1-1/2" Diameter x 5' Long Extra Column Assembly	815.72	
22 14 29 13-0015	EA		2" Diameter x 5' Long Extra Column Assembly	892.59	
22 14 29 13-0016	EA		2-1/2" Diameter x 5' Long Extra Column Assembly	976.70	
22 14 29 13-0017	EA		3" Diameter x 5' Long Extra Column Assembly	1,172.72	
22 14 29 13-0018	EA		4" Diameter x 5' Long Extra Column Assembly	1,310.79	
22 14 29 13-0019	EA		5" Diameter x 5' Long Extra Column Assembly	1,334.66	
22 14 29 13-0020	EA		6" Diameter x 5' Long Extra Column Assembly	1,498.29	
22 14 29 13-0021	EA		8" Diameter x 5' Long Extra Column Assembly	1,639.48	
22 14 29 13-0022			Support Plate <small>(22 14 29 13)</small>		
22 14 29 13-0023	EA		24" Steel Support Plate, Round Or Square	607.85	51.87
22 14 29 13-0024	EA		30" Steel Support Plate, Round Or Square	673.31	58.35
22 14 29 13-0025	EA		36" Steel Support Plate, Round Or Square	931.75	77.81
22 14 29 13-0026	EA		40" Steel Support Plate, Round Or Square	1,334.36	90.78
22 14 29 13-0027	EA		42" Steel Support Plate, Round Or Square	1,427.73	94.02
22 14 29 13-0028	EA		48" Steel Support Plate, Round Or Square	1,524.19	97.26
22 14 29 13-0029	EA		54" Steel Support Plate, Round Or Square	1,936.03	116.71
22 14 29 13-0030	EA		60" Steel Support Plate, Round Or Square	2,599.35	129.67
22 14 29 13-0031	EA		72" Steel Support Plate, Round Or Square	3,463.33	162.10
22 14 29 13-0032	EA		84" Steel Support Plate, Round Or Square	4,167.48	178.30
22 14 29 16			Submersible Sump Pumps <small>(22 14 29)</small>		
22 14 29 16-0001			Submersible Sump Pump With Vortex Impeller <small>(22 14 29 16)</small>		
22 14 29 16-0002			Submersible Sump Pump With Cast Iron Vortex Impeller <small>(22 14 29 16-0001)</small>		
22 14 29 16-0003	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	459.21	84.51
22 14 29 16-0004	EA		1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	497.89	84.51
22 14 29 16-0005	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	730.42	89.43
22 14 29 16-0006	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	791.62	89.43
22 14 29 16-0007			Submersible Sump Pump With Bronze Vortex Impeller <small>(22 14 29 16-0001)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0008	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,157.11	89.43
22 14 29 16-0009	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,249.33	89.43
22 14 29 16-0010	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,318.29	98.59
22 14 29 16-0011	EA		1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,416.89	98.59
22 14 29 16-0012	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,471.89	112.67
22 14 29 16-0013	EA		1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,568.78	112.67
22 14 29 16-0014	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,593.67	133.80
22 14 29 16-0015	EA		2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,677.82	133.80
22 14 29 16-0016			Submersible Sump Pump With Semi-Open Impeller <small>(22 14 29 16)</small>		
Note: Includes 20' of cord with pump.					
22 14 29 16-0017	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	974.24	84.51
22 14 29 16-0018	EA		1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,002.73	84.51
22 14 29 16-0019	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,233.19	89.43
22 14 29 16-0020	EA		1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,253.21	89.43
22 14 29 16-0021	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0022	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,488.27	94.36
22 14 29 16-0023	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,573.20	98.59



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,573.20	98.59
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,795.63	112.67
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,089.13	133.80
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,054.48	133.80
22 14 29 19 Sump-Pump Basins and Pits (22 14 29) See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15)		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	63.14	19.72
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	69.84	23.94
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	734.41	112.34
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	827.95	115.47
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,037.97	118.59
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,200.54	124.82
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,336.51	140.43
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,485.61	159.78
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,091.93	202.84
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,358.27	237.17
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,561.05	253.39
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,786.78	280.85
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,136.06	312.06
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,488.26	343.27
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,682.68	380.71
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,272.74	405.68
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,107.77	421.28
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,996.68	436.89
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,644.73	452.49
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	7,221.15	468.09
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	8,056.80	499.30
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	9,439.36	624.12
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	11,914.08	748.94
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	13,296.66	873.77
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	15,627.22	998.60
22 15 13 00-0029 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator.....	648.69	45.09
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator.....	865.81	52.83
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator.....	1,010.94	59.88
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator.....	1,266.53	70.45
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator.....	1,505.86	84.53
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator.....	3,038.92	176.11
22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	128.78	37.44
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	178.49	49.93
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	291.99	62.41
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	374.79	93.62
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	511.63	109.22
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	542.83	124.82
22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0044 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	472.23	112.34
22 15 13 00-0045 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	590.81	149.79
22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0047 EA 5 SCFM Heatless Desiccant Air Dryer.....	2,471.17	112.34
22 15 13 00-0048 EA 10 SCFM Heatless Desiccant Air Dryer.....	2,965.45	124.82
22 15 13 00-0049 EA 15 SCFM Heatless Desiccant Air Dryer.....	3,000.62	137.31
22 15 13 00-0050 EA 20 SCFM Heatless Desiccant Air Dryer.....	3,426.94	156.03
22 15 13 00-0051 EA 30 SCFM Heatless Desiccant Air Dryer.....	4,705.22	187.23

22	Plumbing
22 10	Plumbing Piping
22 15	General Service Compressed-Air Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0052 EA 50 SCFM Heatless Desiccant Air Dryer	4,682.96	249.64
22 15 13 00-0053 EA 85 SCFM Heatless Desiccant Air Dryer	6,277.09	312.06
22 15 13 00-0054 EA 100 SCFM Heatless Desiccant Air Dryer	6,685.58	374.48
22 15 13 00-0055 EA 125 SCFM Heatless Desiccant Air Dryer	7,658.50	436.89
22 15 13 00-0056 EA 175 SCFM Heatless Desiccant Air Dryer	8,792.91	499.30
22 15 13 00-0057 EA 200 SCFM Heatless Desiccant Air Dryer	9,463.08	561.71
22 15 13 00-0058 EA 300 SCFM Heatless Desiccant Air Dryer	11,536.29	624.12
22 15 13 00-0059 EA 400 SCFM Heatless Desiccant Air Dryer	12,846.05	748.94
22 15 13 00-0060 EA 500 SCFM Heatless Desiccant Air Dryer	14,851.88	873.77
22 15 13 00-0061 EA 600 SCFM Heatless Desiccant Air Dryer	17,131.48	998.60
22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0063 EA 20 SCFM Air-Cooled Aftercooler	651.17	78.01
22 15 13 00-0064 EA 35 SCFM Air-Cooled Aftercooler	873.11	93.62
22 15 13 00-0065 EA 43 SCFM Air-Cooled Aftercooler	962.56	109.22
22 15 13 00-0066 EA 70 SCFM Air-Cooled Aftercooler	1,171.41	124.82
22 15 13 00-0067 EA 125 SCFM Air-Cooled Aftercooler	1,613.26	140.43
22 15 13 00-0068 EA 185 SCFM Air-Cooled Aftercooler	1,810.49	156.03
22 15 13 00-0069 EA 260 SCFM Air-Cooled Aftercooler	3,441.82	187.23
22 15 13 00-0070 EA 365 SCFM Air-Cooled Aftercooler	3,610.82	218.44
22 15 13 00-0071 EA 560 SCFM Air-Cooled Aftercooler	3,778.66	249.64
22 15 13 00-0072 EA 650 SCFM Air-Cooled Aftercooler	4,424.72	280.85
22 15 13 00-0073 EA 750 SCFM Air-Cooled Aftercooler	4,840.11	312.06
22 15 13 00-0074 EA 900 SCFM Air-Cooled Aftercooler	5,542.08	343.27
22 15 13 00-0075 EA 1,100 SCFM Air-Cooled Aftercooler	7,078.17	374.48
22 15 13 00-0076 EA 1,460 SCFM Air-Cooled Aftercooler	8,083.61	405.68
22 15 13 00-0077 EA 1,800 SCFM Air-Cooled Aftercooler	8,357.18	436.89
22 15 13 00-0078 EA 2,500 SCFM Air-Cooled Aftercooler	8,961.31	468.09
22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0081 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	237.20	45.79
22 15 13 00-0082 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	277.97	45.79
22 15 13 00-0083 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating	305.17	52.83
22 15 13 00-0084 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	351.24	60.58
22 15 13 00-0085 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	407.62	66.92
22 15 13 00-0086 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating	464.90	81.01
22 15 13 00-0087 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating	545.32	88.05
22 15 13 00-0088 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating	607.43	105.67
22 15 13 00-0089 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	782.71	140.89
22 15 13 00-0090 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	893.66	158.50
22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0092 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating	283.81	45.79
22 15 13 00-0093 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating	309.52	52.83
22 15 13 00-0094 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating	355.32	60.58
22 15 13 00-0095 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating	415.77	59.88
22 15 13 00-0096 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	474.22	81.01
22 15 13 00-0097 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	535.79	88.05
22 15 13 00-0098 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating	617.91	105.67
22 15 13 00-0099 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	800.19	140.89
22 15 13 00-0100 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	916.95	158.50
22 15 13 00-0101 Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0102 Horizontal Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0103 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME	403.59	99.86
22 15 13 00-0104 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME	603.10	109.22
22 15 13 00-0105 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0106 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME	723.49	124.82
22 15 13 00-0107 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME	948.38	168.51
22 15 13 00-0108 EA 80 Gallon Horizontal Compressed Air Storage Tank, ASME	1,133.44	187.23
22 15 13 00-0109 EA 120 Gallon Horizontal Compressed Air Storage Tank, ASME	1,656.01	218.44
22 15 13 00-0110 EA 200 Gallon Horizontal Compressed Air Storage Tank, ASME	2,415.61	249.64
22 15 13 00-0111 EA 240 Gallon Horizontal Compressed Air Storage Tank, ASME	2,683.87	265.25
22 15 13 00-0112 EA 325 Gallon Horizontal Compressed Air Storage Tank, ASME	3,807.23	280.85
22 15 13 00-0113 EA 400 Gallon Horizontal Compressed Air Storage Tank, ASME	4,986.04	327.67
22 15 13 00-0114 EA 660 Gallon Horizontal Compressed Air Storage Tank, ASME	7,114.95	390.08
22 15 13 00-0115 Vertical Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0116 EA 10 Gallon Vertical Compressed Air Storage Tank, ASME	560.34	99.86
22 15 13 00-0117 EA 15 Gallon Vertical Compressed Air Storage Tank, ASME	591.08	109.22
22 15 13 00-0118 EA 20 Gallon Vertical Compressed Air Storage Tank, ASME	638.37	114.84
22 15 13 00-0119 EA 30 Gallon Vertical Compressed Air Storage Tank, ASME	747.29	124.82
22 15 13 00-0120 EA 60 Gallon Vertical Compressed Air Storage Tank, ASME	1,019.78	168.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0121	EA			80 Gallon Vertical Compressed Air Storage Tank, ASME	1,167.83	187.23
22 15 13 00-0122	EA			120 Gallon Vertical Compressed Air Storage Tank, ASME	1,581.24	218.44
22 15 13 00-0123	EA			200 Gallon Vertical Compressed Air Storage Tank, ASME	2,261.51	249.64
22 15 13 00-0124	EA			240 Gallon Vertical Compressed Air Storage Tank, ASME	2,487.44	265.25
22 15 13 00-0125	EA			325 Gallon Vertical Compressed Air Storage Tank, ASME	3,326.43	280.85
22 15 13 00-0126	EA			400 Gallon Vertical Compressed Air Storage Tank, ASME	4,239.84	327.67
22 15 13 00-0127	EA			500 Gallon Vertical Compressed Air Storage Tank, ASME	5,480.26	358.87
22 15 13 00-0128	EA			660 Gallon Vertical Compressed Air Storage Tank, ASME	8,973.27	405.68
22 15 19	General Service Packaged Air Compressors and Receivers (22 15)					
	Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.					
22 15 19 13	General Service Packaged Reciprocating Air Compressors (22 15 19)					
22 15 19 13-0001	Single Stage Compressor (22 15 19 13)					
	Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.					
22 15 19 13-0002	EA			1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	2,871.10	442.88
22 15 19 13-0003	EA			3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,016.97	511.15
22 15 19 13-0004	EA			1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,449.98	603.65
22 15 19 13-0005	EA			2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,922.80	666.07
22 15 19 13-0006	EA			3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,758.91	703.51
22 15 19 13-0007	EA			3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,076.47	728.48
22 15 19 13-0008	EA			5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,705.78	832.57
22 15 19 13-0009	EA			5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	6,116.27	882.51
22 15 19 13-0010	EA			7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	7,317.15	999.09
22 15 19 13-0011	Two Stage Compressor (22 15 19 13)					
	Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.					
22 15 19 13-0012	EA			1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	5,465.38	778.40
22 15 19 13-0013	EA			2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	5,895.72	915.83
22 15 19 13-0014	EA			3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	6,177.41	999.09
22 15 19 13-0015	EA			5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	7,121.64	1,332.12
22 15 19 13-0016	EA			5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	7,640.80	1,332.12
22 15 19 13-0017	EA			7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	8,286.93	1,665.16
22 15 19 13-0018	EA			7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	8,757.80	1,665.16
22 15 19 13-0019	EA			10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	11,209.85	2,059.60
22 15 19 13-0020	EA			10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	12,056.76	2,122.01
22 15 19 13-0021	EA			15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	13,017.18	2,480.00
22 15 19 13-0022	EA			20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	19,293.54	2,807.30
22 15 19 13-0023	EA			25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	20,780.97	3,172.15
22 15 19 13-0024	EA			30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	23,151.30	3,505.94
22 15 19 13-0025	EA			30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	25,195.91	3,842.34
22 15 19 19	General Service Packaged Rotary-Screw Air Compressors (22 15 19)					
22 15 19 19-0001	Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)					
	Note: Oil flooded.					
22 15 19 19-0002	EA			3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	9,268.00	1,124.30
22 15 19 19-0003	EA			5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	10,423.16	1,499.06
22 15 19 19-0004	EA			7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	13,348.30	1,879.47
22 15 19 19-0005	EA			10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	15,528.97	2,395.12
22 15 19 19-0006	EA			15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	17,775.53	2,817.79
22 15 19 19-0007	EA			20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	21,495.10	3,170.01
22 15 19 19-0008	EA			25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	23,579.92	3,522.24
22 15 19 19-0009	EA			30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	28,246.08	3,944.90
22 15 19 19-0010	EA			40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	31,013.38	4,226.69
22 15 19 19-0011	EA			50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	34,751.96	4,554.96
22 15 19 19-0012	EA			60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	44,848.42	4,931.14
22 15 19 19-0013	EA			75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	49,680.29	5,212.91
22 15 19 19-0014	EA			100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	78,885.48	5,635.59
22 15 19 19-0015	EA			125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	98,120.10	6,093.47
22 15 19 19-0016	EA			150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	113,812.77	6,558.41
22 15 19 19-0017	EA			220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	147,601.70	7,044.48
22 15 19 19-0018	EA			250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	167,540.90	7,495.33
22 15 19 19-0019	Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19)					
	Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.					
22 15 19 19-0020	EA			5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	11,599.12	1,499.06
22 15 19 19-0021	EA			5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,294.55	1,499.06

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	13,901.26	1,879.47
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	14,661.89	1,879.47
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	15,833.22	2,395.12
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	16,637.31	2,395.12
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,026.66	2,817.79
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,895.95	2,817.79
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	30,651.65	3,170.01
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	33,062.44	3,522.24
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	35,255.95	3,944.90

22 30 Plumbing Equipment ⁽²²⁾**22 31 Domestic Water Softeners** ^(22 30)**22 31 16 Commercial Domestic Water Softeners** ^(22 31)22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) ^(22 31 16)22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0001)22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11)	4,352.80	356.61
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11)	4,549.86	372.81
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11)	4,906.23	389.02
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11)	5,632.58	405.24
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11)	5,999.57	421.45

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11)	6,469.34	389.02
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11)	6,802.70	405.24
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11)	7,171.46	421.45
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11)	8,499.69	437.65
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11)	9,436.69	453.86
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11)	11,460.63	470.07

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11)	9,758.98	405.24
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11)	10,115.35	421.45
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11)	11,447.12	437.65
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11)	12,384.12	453.86
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11)	14,517.81	470.07
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11)	19,101.49	486.29
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	22,322.10	502.49



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Softeners	22 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11).....	23,411.45	470.07
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11).....	27,026.81	486.29
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11).....	30,204.93	502.49
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11).....	37,989.18	518.70
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11).....	42,050.64	534.91
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21).....	15,997.13	607.85
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21).....	16,706.06	632.16
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21).....	19,001.10	656.48
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21).....	20,761.55	680.80
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21).....	25,299.47	705.10
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21).....	33,445.14	729.42
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21).....	39,328.43	753.74
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0030)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21).....	42,938.05	705.10
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21).....	49,299.32	729.42
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21).....	55,379.11	753.74
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21).....	70,402.12	778.05
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21).....	78,581.41	802.37
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small> 22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	5,746.77	534.91
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	6,124.66	559.23
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21).....	6,670.72	583.54
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....	7,972.68	607.85
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	8,803.75	632.16
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0045)</small> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	11,083.90	583.54
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	11,684.85	607.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	12,569.03	632.16
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	14,363.10	656.48
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	16,183.74	680.80
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	20,210.06	705.10

22 32 Domestic Water Filtration Equipment (22 30)

22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)

22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)

22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)

22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1)	2,272.39	228.94
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1)	2,323.54	246.56
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2)	2,473.82	264.17
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3)	2,733.85	281.78
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4)	2,820.42	299.39
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4)	3,397.33	317.00
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3)	9,284.93	334.61
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4)	10,784.13	352.23
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3)	13,655.27	369.83
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4)	15,136.77	387.45

22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)

22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50)	12.27	2.82
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20)	12.27	2.82
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10)	12.27	2.82
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5)	10.50	2.82
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1)	12.71	2.82
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50)	12.71	2.82
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20)	13.60	2.82
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5)	16.69	2.82
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1)	13.60	2.82
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50)	15.81	2.82
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20)	15.81	2.82
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5)	15.81	2.82
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1)	17.14	2.82
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50)	22.00	2.82
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20)	20.23	2.82
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5)	20.23	2.82
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1)	22.00	2.82

22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50)	20.68	2.82
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20)	20.68	2.82
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5)	21.12	2.82
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1)	22.45	2.82
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB)	33.07	2.82
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50)	31.74	2.82
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20)	31.74	2.82
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5)	31.74	2.82
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1)	41.48	2.82
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB)	58.29	2.82
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50)	49.00	2.82
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20)	67.59	2.82
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5)	70.24	2.82
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1)	79.09	2.82

22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)



Plumbing	22	22
Plumbing Equipment	22 30	
Domestic Water Filtration Equipment	22 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,804.33	211.34
22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)		
22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	557.06	2.82
22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	116.71	2.82
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	115.83	2.82
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	115.83	2.82
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	132.64	2.82
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	306.57	2.82
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	287.98	2.82
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	313.65	2.82
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	328.70	2.82
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	349.94	2.82
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	379.15	2.82
22 33 Electric Domestic Water Heaters (22 30)		
22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)		
22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	383.13	70.43
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	538.36	70.43
22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	520.72	105.63
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	712.64	140.84
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,211.58	246.48
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,784.72	281.68
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	983.00	140.84
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,361.68	211.27
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,548.47	281.68
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,597.11	281.68
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,643.06	281.68
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,710.62	281.68
22 33 30 Residential, Electric Domestic Water Heaters (22 33)		
22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)		
22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 13)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	800.33	221.83
22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	947.40	235.92
22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,087.45	246.48
22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)		
22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	1,145.57	246.48
22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	1,098.55	253.52
22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	1,091.83	260.56
22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,192.89	264.09
22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	1,624.30	271.12
22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	1,660.28	281.68
22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	2,135.71	299.29
22 33 30 16-0009 Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,212.31	246.48
22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,172.88	253.52
22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,234.53	260.56
22 33 30 16-0013 High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) (22 33 30 16)		
Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,250.84	253.52
22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,350.47	260.56
22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,613.82	271.12
22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,741.96	281.68
22 33 30 16-0018 Water Heater Accessories (22 33 30 16)		
22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	90.67	14.09
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	104.62	14.09
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	190.77	14.09
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	251.40	14.09
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	67.49	10.56
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	73.07	10.56
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	76.80	10.56
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	89.83	10.56
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	39.47	10.56
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	42.45	10.56
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	46.64	10.56
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	52.02	10.56
22 33 33 Light-Commercial Electric Domestic Water Heaters (22 33)		
22 33 33 00-0001 Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)		
Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	4,905.91	246.48
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	5,091.72	246.48
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	5,293.02	246.48
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	5,363.44	281.68
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	5,595.71	281.68
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	5,967.33	281.68
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	6,215.08	281.68
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	6,416.38	281.68
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	6,633.16	281.68
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	5,827.97	281.68
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	6,044.75	281.68
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	6,292.50	281.68
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	6,493.80	281.68
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	6,710.58	281.68
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	8,305.47	281.68
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	6,386.89	352.11
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	6,588.19	352.11
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	6,835.94	352.11
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	7,052.72	352.11
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	8,663.09	352.11
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	9,406.34	352.11
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36).....	10,134.10	352.11
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9).....	7,394.86	422.53
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12).....	7,596.16	422.53
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15).....	7,797.46	422.53
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18).....	8,014.24	422.53
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24).....	9,671.06	422.53
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30).....	10,414.31	422.53
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36).....	11,142.08	422.53
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45).....	12,458.25	422.53
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54).....	13,046.65	422.53
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60).....	15,090.58	422.53
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75).....	17,722.92	422.53
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90).....	22,151.45	422.53
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9).....	8,388.83	563.37



Plumbing	22	22
Plumbing Equipment	22 30	
Electric Domestic Water Heaters	22 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	8,621.10	563.37
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	8,837.88	563.37
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	9,023.69	563.37
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	10,665.03	563.37
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	11,408.28	563.37
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	12,120.56	563.37
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	13,467.70	563.37
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	14,040.62	563.37
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	16,100.04	563.37
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	18,747.86	563.37
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	23,160.90	563.37
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	9,381.31	633.79
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	9,598.09	633.79
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	9,783.91	633.79
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	11,440.73	633.79
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	12,106.56	633.79
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	12,880.78	633.79
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	14,227.91	633.79
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	14,816.32	633.79
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	16,751.86	633.79
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	19,508.08	633.79
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	23,921.12	633.79
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	10,544.12	704.21
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	10,791.87	704.21
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	12,402.24	704.21
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	13,145.49	704.21
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	13,873.25	704.21
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	15,189.42	704.21
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	15,793.31	704.21
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	17,821.76	704.21
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	20,454.10	704.21
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	24,898.11	704.21
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	11,383.25	845.06
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	11,600.03	845.06
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	13,210.40	845.06
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	13,922.68	845.06
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	14,681.41	845.06
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	15,997.58	845.06
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	16,555.02	845.06
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	18,645.41	845.06
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	21,293.23	845.06
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	25,690.79	845.06
22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) <small>(22 33 33)</small>		
<small>Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.</small>		
22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,452.90	246.48
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,550.45	246.48
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,693.65	281.68
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	2,808.52	281.68
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,259.05	352.11
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	3,632.17	422.53
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,423.22	633.79
22 33 33 00-0087 Water Heater Accessories <small>(22 33 33)</small>		
22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap	45.26	
<small>Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts</small>		
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap	64.79	
<small>Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts</small>		
22 33 33 00-0090 Removal And Reinstallation Of Water Heater <small>(22 33 33)</small>		
<small>Note: Includes storage and cleaning.</small>		
22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	469.48	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,408.43	
22 34 Fuel-Fired Domestic Water Heaters <small>(22 30)</small>		
22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34)</small>		
22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13)</small>		
22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small>		
<small>Note: Includes vent connection. Excludes vent.</small>		
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,546.64	281.68
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,656.70	285.20
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	1,801.89	292.25

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN).....	2,068.67	299.29
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN).....	2,471.11	316.89
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN).....	2,517.93	316.89
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN).....	1,649.65	281.68
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN).....	2,471.11	316.89
22 34 30 Residential Gas Domestic Water Heaters (22 34)		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30).....	1,211.07	271.12
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40).....	1,199.88	278.16
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50).....	1,521.66	285.20
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65).....	1,632.43	292.25
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75).....	1,765.36	299.29
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100).....	2,500.75	316.89
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40).....	2,024.33	278.16
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50).....	2,279.74	285.20
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75).....	2,896.20	292.25
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30)		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40).....	1,861.34	278.16
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50).....	1,934.89	285.20
22 34 36 Commercial Gas Domestic Water Heaters (22 34)		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36)		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13) Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120).....	5,489.87	422.53
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154).....	5,888.14	492.95
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180).....	7,254.49	563.37
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199).....	6,325.56	563.37
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200).....	7,216.55	563.37
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A).....	9,536.40	619.71
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250).....	7,047.27	633.79
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....	10,291.84	697.17
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251).....	7,150.22	633.79
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	9,838.39	697.17
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275).....	7,971.14	774.64
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	10,822.32	852.10
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305).....	8,902.57	774.64
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	10,883.59	852.10
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365).....	8,675.80	845.06
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	12,006.71	929.57
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400).....	10,869.50	845.06
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	14,114.67	929.57
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500).....	14,049.73	915.48
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	7,040.12	492.95
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	8,413.28	542.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	7,352.53	563.37
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	8,776.55	619.71
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	1,929.71	352.11
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	2,089.03	352.11
22 34 36 13-0027 Removal And Reinstallation Of Water Heater <small>(22 34 36 13)</small>		
Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	640.19	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon	1,692.82	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) <small>(22 34 36 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	4,521.68	422.53
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	6,347.76	422.53
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	7,726.43	492.95
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	8,075.61	563.37
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	8,112.38	563.37
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	8,283.96	563.37
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	9,695.72	619.71
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	9,147.88	633.79
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	11,198.76	697.17
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	9,662.42	774.64
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	11,778.25	852.10
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310)	9,858.51	774.64
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	11,900.81	852.10
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366)	11,041.08	845.06
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	12,938.13	929.57
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400)	13,259.35	845.06
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	15,266.70	929.57
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) <small>(22 34 36 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	3,565.74	422.53
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	4,693.26	422.53
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	5,624.68	422.53
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	8,013.25	464.78
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	8,216.65	492.95
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	10,312.90	542.25
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	8,382.00	563.37
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	10,663.92	619.71
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	9,674.87	633.79
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	11,725.75	697.17
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	15,307.86	852.10
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	16,112.33	929.57
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	18,497.78	1,007.02

22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) <small>(22 34 36 23)</small>		
Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	77,442.85	1,746.31
22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	93,542.28	1,855.46
22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	113,553.07	1,964.60
22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	135,647.34	2,073.74
22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	142,184.14	2,182.89
22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) <small>(22 34 36 23)</small>		
22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	10,064.34	1,037.87
22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	10,939.88	1,167.60
22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	12,704.49	1,427.07
22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	18,254.71	1,556.81
22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	20,129.35	1,816.27
22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	23,024.54	2,075.74
22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	25,456.00	2,335.21
22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	30,336.50	2,594.68
22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	31,494.69	2,724.40
22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	33,753.00	2,854.14
22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	41,159.61	1,971.95
22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	58,106.06	2,179.52
22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	63,046.41	2,283.31
22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	68,287.10	2,490.88
22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	36,512.49	1,971.95
22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	40,336.84	2,179.52
22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	44,091.86	2,283.31
22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	47,905.54	2,490.88
22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	9,399.18	934.08
22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	10,341.06	1,037.87
22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	12,146.61	1,245.44
22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,104.72	1,297.34
22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	18,851.64	1,556.81
22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	23,246.44	1,868.17
22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	26,416.79	1,971.95
22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	29,277.94	2,127.64
22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	31,954.27	2,231.42
22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	34,289.38	2,283.31
22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	30,662.24	1,556.81
22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	33,765.09	1,868.17
22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	45,138.56	2,127.64
22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	46,503.39	2,231.42
22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	48,678.56	2,283.31
22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	38,892.02	1,868.17
22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	47,040.06	2,127.64
22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	49,920.75	2,283.31
22 34 46 Oil-Fired Domestic Water Heaters <small>(22 34)</small>		



	Plumbing	22
	Plumbing Equipment	22 30
	Fuel-Fired Domestic Water Heaters	22 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)

22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)
 Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.

22 34 46 11-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E)	1,906.35	216.90
22 34 46 11-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E)	1,882.39	216.90
22 34 46 11-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES)	1,959.37	216.90
22 34 46 11-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E)	2,065.18	222.53
22 34 46 11-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES)	2,594.87	228.16
22 34 46 11-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E)	2,214.23	228.16

22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)

Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.

22 34 46 11-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E)	3,081.74	338.02
22 34 46 11-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E)	3,582.89	338.02
22 34 46 11-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E)	3,602.17	338.02
22 34 46 11-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E)	5,166.01	450.69
22 34 46 11-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E)	7,052.80	563.37
22 34 46 11-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E)	8,822.83	619.71

22 35 Domestic Water Heat Exchangers (22 30)

22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)

22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)

22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)

22 35 23 13-0002 Constant Flow (22 35 23 13-0001)

22 35 23 13-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	7,088.76	704.21
22 35 23 13-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	8,849.46	862.94
22 35 23 13-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	11,345.62	1,128.58
22 35 23 13-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	15,364.20	1,571.95
22 35 23 13-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	22,741.00	2,588.98
22 35 23 13-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	24,813.11	2,934.18
22 35 23 13-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	32,440.23	3,385.58
22 35 23 13-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	39,013.96	4,001.21

22 35 23 13-0011 Variable Flow (22 35 23 13-0001)

22 35 23 13-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	10,760.41	1,373.22
22 35 23 13-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	12,226.99	1,676.74
22 35 23 13-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	15,604.84	2,168.13
22 35 23 13-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	20,511.76	3,025.02
22 35 23 13-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	30,751.44	5,059.08
22 35 23 13-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	37,272.14	5,571.33
22 35 23 13-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	43,192.80	6,520.47
22 35 23 13-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	54,574.65	7,790.02

22 40 Plumbing Fixtures (22)

Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.

22 41 Residential Plumbing Fixtures (22 40)

22 41 39 Residential Faucets, Supplies, and Trim (22 41)

22 41 39 00-0001 Residential Kitchen Faucets (22 41 39)

22 41 39 00-0002 EA Chrome Single Handle Kitchen Faucet (Delta 100LF-WF)	177.96	64.84
22 41 39 00-0003 EA Chrome Single Handle Kitchen Faucet With Spray (Delta 400LF-WF)	198.79	64.84
22 41 39 00-0004 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300LF-WF)	198.79	64.84
22 41 39 00-0005 EA Chrome Two Handle Kitchen Faucet, Three Hole Installation 8"Center (Delta 2102LF-LHP+H215)	193.04	64.84
22 41 39 00-0006 EA Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402LF-LHP+H215)	204.23	64.84

22 41 39 00-0007 Residential Lavatory Faucets (22 41 39)

22 41 39 00-0008 EA Chrome, Single Acrylic Handle, Bath Faucet (Delta 502-DST)	154.10	46.68
For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0009 EA Chrome, Single Lever Handle, Lavatory Faucet (Delta 500-WF)	154.10	46.68
For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0010 EA Chrome, Two Handle, Bath Faucet With Acrylic Handles (Delta 2502LF)	119.84	46.68
For Faucet With Brass Pop-Up, Add	16.50	
For Faucet With Plastic Pop-Up, Add	14.00	

22 Plumbing**22 40 Plumbing Fixtures****22 41 Residential Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 41 39 00-0011			Residential Bath And Shower Faucets (22 41 39)		
22 41 39 00-0012	EA		Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501) 197.53 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 25.00	197.53	56.28
22 41 39 00-0013	EA		Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502) 226.03 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 25.00	226.03	56.28
22 41 39 00-0014	EA		Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3275) 185.11 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 75.00 <i>For Faucet With Lever Handles, Add</i> 8.10	185.11	56.28
22 41 39 00-0015	EA		Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3375) 200.46 <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> 75.00 <i>For Faucet With Lever Handles, Add</i> 8.10	200.46	56.28
22 41 39 00-0016	EA		Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602) 212.90	212.90	35.21
22 41 39 00-0017	EA		Wall Mount, Hand Shower With Hose (Delta 55011) 182.38	182.38	35.21
22 41 39 00-0018	EA		Wall Mount, Hand Shower Unit With Hose (Delta Faucet 62001 DS) 275.91	275.91	35.21
22 41 39 00-0019			Residential Laundry Faucets (22 41 39)		
22 41 39 00-0020	EA		Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123LF) 136.03	136.03	41.41
22 41 39 00-0021			Residential Laundry/Wash Basin Faucets (22 41 39)		
22 41 39 00-0022	EA		Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF) 136.89	136.89	41.41
22 41 39 00-0023	EA		Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF+RP12503) 185.76	185.76	45.64
22 41 39 00-0024			Other Residential Faucets (22 41 39)		
22 41 39 00-0025	EA		Sillcock, Compact, Brass, IPS Or Copper To Hose 41.86	41.86	10.56
22 42			Commercial Plumbing Fixtures (22 42)		
Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.					
22 42 13			Commercial Water Closets, Urinals, and Bidets (22 42)		
22 42 13 13			Commercial Water Closets (22 42 13)		
22 42 13 13-0001			Vitreous China Water Closets (22 42 13 13) Note: With a 2" ball pass.		
22 42 13 13-0002			Floor Mounted Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0003	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™) 741.55	741.55	134.86
22 42 13 13-0004	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Colorado) 734.98	734.98	134.86
22 42 13 13-0005	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo®) 868.60	868.60	134.86
22 42 13 13-0006	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™) 1,100.08	1,100.08	134.86
22 42 13 13-0007	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet™) 992.74	992.74	134.86
22 42 13 13-0008	EA		1 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Compact Cadet™) 932.13	932.13	134.86
22 42 13 13-0009	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet With Concealed Trapway (American Standard Cadet® 3 FloWise® RIGHT HEIGHT®) 936.30	936.30	134.86
22 42 13 13-0010	EA		Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Kohler® Wellcome™) 732.25	732.25	134.86
22 42 13 13-0011	EA		1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E) 779.03	779.03	134.86
22 42 13 13-0012			Wall Hung Elongated Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0013	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard A'wall®) 865.44	865.44	165.99
22 42 13 13-0014	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard A'wall® ADA Retrofit) 1,050.25	1,050.25	165.99
22 42 13 13-0015	EA		2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™) 1,301.44	1,301.44	165.99
22 42 13 13-0016	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Kingston™) 868.48	868.48	165.99
22 42 13 13-0017	EA		Flush Valve Type, Blow Out, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Stratton™) 1,267.27	1,267.27	165.99
22 42 13 13-0018	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV) 949.99	949.99	165.99
22 42 13 13-0019	EA		Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL) 823.12	823.12	165.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0020 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2459).....	859.88	165.99
22 42 13 13-0021 Floor Mounted Elongated Handicapped Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0022 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA).....	750.76	134.86
22 42 13 13-0023 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®).....	766.83	134.86
22 42 13 13-0024 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®).....	837.66	134.86
22 42 13 13-0025 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....	925.28	134.86
22 42 13 13-0026 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA).....	921.63	134.86
22 42 13 13-0027 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA).....	1,201.29	134.86
22 42 13 13-0028 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA).....	1,026.05	134.86
22 42 13 13-0029 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN).....	822.91	134.86
22 42 13 13-0030 EA 2 Piece Tank Type, High Efficiency Water Closet Floor Mounted, Elongated, (Sterling 402077) With Open-Front Seat (Kohler K-4650).....	913.25	134.86
22 42 13 13-0031 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler Highline™ ADA K-3519).....	1,048.05	134.86
22 42 13 13-0032 EA 2 Piece Tank Type, Dual-Flush 1.1 And 1.6 GPF, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Vortens Vienna ELX-DF 3113-3436).....	835.38	134.86
22 42 13 13-0033 EA 2 Piece Tank Type, High Efficiency Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Niagara Stealth™).....	815.68	134.86
22 42 13 13-0034 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....	786.05	134.86
22 42 13 13-0035 Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0036 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™).....	831.97	134.86
22 42 13 13-0037 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	758.78	134.86
22 42 13 13-0038 EA 2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	872.71	134.86
22 42 13 13-0039 Floor Mounted Round Bowl Vitreous China Water Closets (22 42 13 13-0001)		
22 42 13 13-0040 EA 2 Piece Tank Type, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Toto® CST715) With SoftClose® Seat (Toto® SS113).....	813.51	134.86
22 42 13 13-0041 EA 2 Piece Tank Type, Dual Flush, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Vortens 3208-3412).....	822.39	134.86
22 42 13 13-0042 Stainless Steel Water Closets (22 42 13 13)		
22 42 13 13-0043 EA Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....	3,879.78	291.77
22 42 13 13-0044 EA Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS).....	4,084.07	291.77
22 42 13 13-0045 Water Closet Carriers (22 42 13 13)		
22 42 13 13-0046 Pipe Grip Adaptor Type, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings.		
22 42 13 13-0047 EA Pipe Grip Adaptor Type, Water Closet Carrier.....	601.29	68.47
22 42 13 13-0048 No-Hub, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0049 EA Vertical Close With Offset, No-Hub, Single Water Closet Carrier.....	908.47	68.47
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-75.38	
For Positioning Frame, Add	50.88	
For Supply Pipe Support, Add	52.01	
For Vandal Proof Trim, Add	64.14	
For Auxiliary Inlet, Add	220.41	
For Special Duty 500 LB Carrier, Add	357.80	
22 42 13 13-0050 EA Vertical Close On Stack, No-Hub, Single Water Closet Carrier.....	908.47	68.47
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-75.38	
For Positioning Frame, Add	50.88	
For Supply Pipe Support, Add	52.01	
For Vandal Proof Trim, Add	64.14	
For Auxiliary Inlet, Add	220.41	
For Special Duty 500 LB Carrier, Add	357.80	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0051	EA		Horizontal Adjustable, No-Hub, Single Water Closet Carrier	988.35	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Horizontal No Hub Cast Long Barrel, Add</i>	222.16	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0052	EA		Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier.....	1,090.74	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For 4" Branch, Add</i>	171.53	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Double 4" Branches, Add</i>	344.17	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0053	EA		Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,504.16	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Special Duty 500 LB Carrier, Add</i>	715.60	
22 42 13 13-0054	EA		Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,544.67	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Special Duty 500 LB Carrier, Add</i>	715.60	
22 42 13 13-0055	EA		Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier.....	1,867.59	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For 4" Branch, Add</i>	181.25	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Double 4" Branches, Add</i>	363.62	
			<i>For Carrier For Wide Chase Installations, Add</i>	657.67	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	715.62	
22 42 13 13-0056	EA		Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier	1,761.83	100.49
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-150.76	
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Horizontal No Hub Cast Long Barrel, Add</i>	231.88	
			<i>For Carrier For Wide Chase Installations, Add</i>	657.67	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	715.62	
22 42 13 13-0057			Hub And Spigot, Water Closet Carriers <small>(22 42 13 13-0045)</small>		
			Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0058	EA		Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier.....	908.47	68.47
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Hanger Type Closet Adapter, Add</i>	160.90	
			<i>For Auxiliary Inlet, Add</i>	220.41	
22 42 13 13-0059	EA		Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier.....	908.47	68.47
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Special Duty 500 LB Carrier, Add</i>	357.80	
22 42 13 13-0060	EA		Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier	1,128.99	68.47
			<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-75.38	
			<i>For Positioning Frame, Add</i>	50.88	
			<i>For Supply Pipe Support, Add</i>	52.01	
			<i>For Vandal Proof Trim, Add</i>	64.14	
			<i>For 4" Branch, Add</i>	171.53	
			<i>For Auxiliary Inlet, Add</i>	220.41	
			<i>For Carrier For Wide Chase Installations, Add</i>	299.66	
			<i>For Double 4" Branches, Add</i>	344.17	
			<i>For Special Duty 1,000 LB Carrier, Add</i>	357.81	
22 42 13 13-0061	EA		Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier.....	1,504.16	100.49
			<i>For Positioning Frame, Add</i>	111.48	
			<i>For Supply Pipe Support, Add</i>	113.74	
			<i>For Vandal Proof Trim, Add</i>	128.28	
			<i>For Auxiliary Inlet, Add</i>	239.86	
			<i>For Hanger Type Closet Adapter, Add</i>	321.80	



Plumbing	22	22
Plumbing Fixtures	22 40	
Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0062 EA Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier 1,905.85 100.49 For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct -150.76 For Positioning Frame, Add 111.48 For Supply Pipe Support, Add 113.74 For Vandal Proof Trim, Add 128.28 For 4" Branch, Add 181.25 For Auxiliary Inlet, Add 239.86 For Double 4" Branches, Add 363.62 For Carrier For Wide Chase Installations, Add 657.67 For Special Duty 1,000 LB Carrier, Add 715.62		
22 42 13 13-0063 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.		
22 42 13 13-0064 EA Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier 711.56 68.47 For Positioning Frame, Add 50.88 For Supply Pipe Support, Add 52.01 For Vandal Proof Trim, Add 64.14 For Hanger Type Closet Adapter, Add 160.90		
22 42 13 13-0065 Institutional Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket.		
22 42 13 13-0066 EA Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier 2,427.94 100.49 For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct -150.76 For Positioning Frame, Add 111.48 For Supply Pipe Support, Add 113.74 For Vandal Proof Trim, Add 128.28 For Auxiliary Inlet, Add 239.86		
22 42 13 13-0067 Removal And Reinstallation Of Fixtures And Trim (22 42 13 13) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 13-0068 EA Removal And Reinstallation Of Wall Hung Water Closet With Tank 592.28 22 42 13 13-0069 EA Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve 592.28 22 42 13 13-0070 EA Removal And Reinstallation Of Floor Mount Water Closet With Tank 455.39 22 42 13 13-0071 EA Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve 455.39		
22 42 13 16 Commercial Urinals (22 42 13)		
22 42 13 16-0001 Vitreous China Urinals (22 42 13 16) Note: Excludes flush valve unless indicated otherwise.		
22 42 13 16-0002 Wall Hung Urinals (22 42 13 16-0001)		
22 42 13 16-0003 EA Wall Hung Washout, Vitreous China Urinal (American Standard Maybrook™) 680.91 138.76 22 42 13 16-0004 EA Wall Hung, Washout, Vitreous China Urinal With Top Spud (American Standard Washbrook®) 800.87 138.76 22 42 13 16-0005 EA Wall Hung, Washout, Vitreous China Urinal With Back Spud (American Standard Washbrook®) 825.96 138.76 22 42 13 16-0006 EA Wall Hung, Blowout, Vitreous China Urinal (American Standard Lynbrook™) 862.81 138.76 22 42 13 16-0007 EA Wall Hung Siphon Jet, Vitreous China Urinal (American Standard Trimbrook™) 798.92 138.76 22 42 13 16-0008 EA Wall Hung, Siphon Jet, Vitreous China Urinal (American Standard Allbrook™) 697.77 138.76 22 42 13 16-0009 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT447E Or UT447EV) 816.54 138.76 22 42 13 16-0010 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT104E Or UT104EV) 719.59 138.76 22 42 13 16-0011 EA Wall Hung, Washout, Vitreous China Urinal (Zurn Z5798) 766.70 138.76 22 42 13 16-0012 EA 0.125 To 0.5 GPF, HEU, Wall Hung, Washout, Vitreous China Urinal (Sloan SU-1009-A) 712.66 138.76 22 42 13 16-0013 EA 1.0 GPF, HEU, Wall Hung, Washout, Vitreous China Urinal (Sloan SU-1006-A) 710.60 138.76		
22 42 13 16-0014 Floor Mounted Urinals (22 42 13 16-0001)		
22 42 13 16-0015 EA Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™) 1,046.09 175.06 22 42 13 16-0016 EA Washout, Floor Mounted, Vitreous China Urinal (Kohler® Branham™) 1,168.46 175.06 22 42 13 16-0017 EA Floor Mounted Urinal Seam Cover For 21" Centers (Kohler® K-4931) 310.92 32.42 22 42 13 16-0018 EA Floor Mounted Urinal Seam Cover For 24" Centers (Kohler® K-4932) 350.99 32.42		
22 42 13 16-0019 Waterfree Urinals (22 42 13 16-0001)		
22 42 13 16-0020 EA Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free) 684.74 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -41.10 22 42 13 16-0021 EA Waterfree, Wall Hung, Vitreous China Urinal (SLOAN WES-1000) 1,084.35 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -86.66 22 42 13 16-0022 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000) 949.35 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -71.27 22 42 13 16-0023 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000) 754.04 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -49.00 22 42 13 16-0024 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000) 754.04 97.26 For Colored Fixtures, Add 66.90 For >1, Deduct -49.00		

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 16-0025 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000)	907.48	97.26
For Colored Fixtures, Add	66.90	
For >1, Deduct	-66.50	
22 42 13 16-0026 EA Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000)	1,317.74	97.26
For >1, Deduct	-113.26	
22 42 13 16-0027 Stainless Steel Urinals (22 42 13 16)		
22 42 13 16-0028 EA Wall Hung Urinal, Stainless Steel, Blowout Jet (Acorn 2160-T-1).....	3,994.70	291.77
22 42 13 16-0029 EA 5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C).....	5,173.56	356.61
22 42 13 16-0030 Urinal Carriers (22 42 13 16)		
22 42 13 16-0031 Floor Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 13 16-0032 EA Floor Mounted Hanger Plate Type, Single Urinal Carrier.....	518.36	49.28
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0033 EA Floor Mounted Bearing Plate Type, Single Urinal Carrier	561.12	49.28
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0034 Wall Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes wall plate and adjustable supporting rods.		
22 42 13 16-0035 EA Wall Mounted Hanger Plate Type, Single Urinal Carrier	251.69	49.28
For Up To 6-1/2" Extension Sleeves And Hardware, Add	23.63	
22 42 13 16-0036 Removal And Reinstallation Of Fixtures And Trim (22 42 13 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 16-0037 EA Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....	590.75	
22 42 16 Commercial Lavatories and Sinks (22 42)		
22 42 16 13 Commercial Lavatories (22 42 16)		
22 42 16 13-0001 Lavatories (22 42 16 13)		
Note: Includes trap, drain and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 13-0002 Wall Hung Lavatories (22 42 16 13-0001)		
22 42 16 13-0003 EA 19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	619.43	86.88
22 42 16 13-0004 EA 20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	645.02	86.88
22 42 16 13-0005 EA 22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™)	788.34	86.88
22 42 16 13-0006 EA 18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™).....	572.77	86.88
22 42 16 13-0007 EA 19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™).....	501.28	86.88
22 42 16 13-0008 EA 20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®)	619.01	86.88
22 42 16 13-0009 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™).....	584.81	86.88
22 42 16 13-0010 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™).....	522.35	86.88
22 42 16 13-0011 EA 27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users)	719.52	86.88
22 42 16 13-0012 Countertop Lavatories (22 42 16 13-0001)		
22 42 16 13-0013 EA 20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®)	585.36	105.03
22 42 16 13-0014 EA 21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval)	594.97	105.03
22 42 16 13-0015 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™).....	621.90	105.03
22 42 16 13-0016 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™).....	650.42	105.03
22 42 16 13-0017 EA 24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®).....	819.33	113.46
22 42 16 13-0018 Undercounter Lavatories (22 42 16 13-0001)		
22 42 16 13-0019 EA 15" x 12" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	583.58	105.03
22 42 16 13-0020 EA 17" x 14" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	553.24	105.03
22 42 16 13-0021 EA 19" x 16" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	553.24	105.03
22 42 16 13-0022 EA 21" x 17" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	590.19	105.03
22 42 16 13-0023 EA 15" x 12" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	566.82	105.03
22 42 16 13-0024 EA 17" x 14" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	561.23	105.03
22 42 16 13-0025 EA 19" x 15" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	566.92	105.03
22 42 16 13-0026 EA 18" x 12" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	692.54	105.03
22 42 16 13-0027 EA 21" x 14" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®)	692.54	105.03
22 42 16 13-0028 Pedestal Lavatories (22 42 16 13-0001)		
22 42 16 13-0029 EA 19" x 24" x 35" High Vitreous China Pedestal Sink (American Standard Cadet™).....	736.27	249.62
22 42 16 13-0030 Cultured Marble Vanity Tops (22 42 16 13-0001)		
Note: Includes predrilled holes for faucet.		
22 42 16 13-0031 EA 25" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	374.25	97.26
22 42 16 13-0032 EA 31" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	418.54	103.74
22 42 16 13-0033 EA 37" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	494.58	110.22
22 42 16 13-0034 EA 49" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink	655.17	116.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0035 EA 25" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	397.33	97.26
22 42 16 13-0036 EA 31" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	425.04	103.74
22 42 16 13-0037 EA 37" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	532.97	110.22
22 42 16 13-0038 EA 43" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	576.43	113.46
22 42 16 13-0039 EA 49" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink	638.94	116.71
22 42 16 13-0040 Quartz Vanity Tops (22 42 16 13-0001) Note: Includes predrilled holes for faucet.		
22 42 16 13-0041 EA 25" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	731.48	97.26
22 42 16 13-0042 EA 31" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	764.50	103.74
22 42 16 13-0043 EA 37" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	872.90	110.22
22 42 16 13-0044 EA 43" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	880.75	113.46
22 42 16 13-0045 EA 49" x 22" Quartz Vanity Top With Integrated Backsplash And Sink	956.57	116.71
22 42 16 13-0046 EA 61" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks	1,259.70	123.19
22 42 16 13-0047 EA 73" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks	1,476.94	129.66
22 42 16 13-0048 EA 22" End Splash For Quartz Vanity Tops	40.59	
22 42 16 13-0049 Solid Surface Vanity Tops (22 42 16 13-0001) Note: Includes predrilled holes for faucet.		
22 42 16 13-0050 EA 25" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	623.40	97.26
22 42 16 13-0051 EA 31" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	696.41	103.74
22 42 16 13-0052 EA 37" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	778.68	110.22
22 42 16 13-0053 EA 43" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	852.15	113.46
22 42 16 13-0054 EA 49" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	919.50	116.71
22 42 16 13-0055 EA 55" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	1,007.63	119.95
22 42 16 13-0056 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink	1,115.27	123.19
22 42 16 13-0057 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks	1,141.52	123.19
22 42 16 13-0058 EA 73" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks	1,229.94	129.66
22 42 16 13-0059 EA 22" End Splash For Solid Surface Vanity Tops	59.02	
22 42 16 13-0060 Stainless Steel Lavatories (22 42 16 13-0001)		
22 42 16 13-0061 EA 18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1)	2,010.66	226.94
22 42 16 13-0062 Solid Surface Multi-Station Lavatory Systems (22 42 16 13-0001) Note: ADA compliant. Includes integral faucets.		
22 42 16 13-0063 EA 2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2)	5,597.99	169.06
<i>For Integral Liquid Soap Dispenser, Add</i>	171.00	
<i>For Integral Photovoltaic Power Panels, Add</i>	563.00	
22 42 16 13-0064 EA 3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3)	8,180.31	169.06
<i>For Integral Liquid Soap Dispenser, Add</i>	171.00	
<i>For Integral Photovoltaic Power Panels, Add</i>	657.00	
22 42 16 13-0065 EA 12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12)	394.23	56.35
22 42 16 13-0066 EA 18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18)	483.25	56.35
22 42 16 13-0067 EA 36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36)	936.60	56.35
22 42 16 13-0068 Lavatory Carriers (22 42 16 13)		
22 42 16 13-0069 Floor Mounted, Lavatory Carriers (22 42 16 13-0068)		
22 42 16 13-0070 Floor Mounted Plate Type, Lavatory Carriers (22 42 16 13-0069) Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 16 13-0071 EA Floor Mounted Hanger Plate Type, Single Lavatory Carrier	518.36	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	87.04	
<i>For Corner Carrier, Add</i>	169.61	
22 42 16 13-0072 EA Floor Mounted Bearing Plate Type, Single Lavatory Carrier	561.12	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	87.04	
22 42 16 13-0073 EA Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier	636.50	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	47.25	
<i>For Valve Plate For Attaching To Upright, Add</i>	174.10	
22 42 16 13-0074 EA Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier	723.14	49.28
<i>For Up To 4" Extension Sleeves And Hardware, Add</i>	47.25	
<i>For Valve Plate For Attaching To Upright, Add</i>	174.10	
22 42 16 13-0075 Floor Mounted, Lavatory Carriers With Arms (22 42 16 13-0069) Note: Includes leveling and securing screws, structural uprights and welded feet.		
22 42 16 13-0076 EA Floor Mounted, Single Lavatory Carrier With Concealed Arms	662.43	58.35
<i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i>	23.63	
<i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i>	32.63	
<i>For Valve Plate For Attaching To Upright, Add</i>	89.64	
<i>For 2" Chrome Plated Escutcheons, Add</i>	79.89	
<i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	145.15	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0077 EA Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms	869.47	58.35
For Up To 4-1/2" Extension Sleeves And Hardware, Add	23.63	
For Vandal Proof Trim, Add	64.14	
For Valve Plate For Attaching To Upright, Add	89.64	
For Heavy Duty Carrier, Add	82.13	
22 42 16 13-0078 EA Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms	868.34	58.35
For Up To 6-1/2" Extension Sleeves And Hardware, Add	47.25	
For Concealed Arm Carrier For Wheelchair Lavatory, Add	65.27	
For Valve Plate For Attaching To Upright, Add	179.28	
For 2" Chrome Plated Escutcheons, Add	159.77	
For 4" Or 6" Chrome Plated Escutcheons, Add	290.29	
22 42 16 13-0079 EA Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms.....	1,264.41	58.35
For Up To 4-1/2" Extension Sleeves And Hardware, Add	47.25	
For Vandal Proof Trim, Add	128.28	
For Valve Plate For Attaching To Upright, Add	179.28	
For Heavy Duty Carrier, Add	164.27	
22 42 16 13-0080 Wall Mounted, Lavatory Carriers (22 42 16 13-0068)		
22 42 16 13-0081 Wall Mounted Plate Type, Lavatory Carriers (22 42 16 13-0080)		
Note: Includes wall plate and adjustable supporting rods.		
22 42 16 13-0082 EA Wall Mounted Hanger Plate Type, Single Lavatory Carrier.....	251.69	49.28
For Double Plate Carrier, Add	69.81	
22 42 16 13-0083 Wall Mounted Plate Type, Lavatory Carriers With Arms (22 42 16 13-0080)		
Note: Includes wall plate and leveling and securing screws.		
22 42 16 13-0084 EA Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms	400.27	58.35
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
For 2" Chrome Plated Escutcheons, Add	79.89	
22 42 16 13-0085 EA Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms	463.28	58.35
For Movable Mounting Brackets, Deduct	-60.76	
For Up To 4" Extension Sleeves And Hardware, Add	23.63	
For 2" Chrome Plated Escutcheons, Add	79.89	
For 4" Or 6" Chrome Plated Escutcheons, Add	145.15	
22 42 16 13-0086 EA Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms.....	657.94	58.35
For Up To 4-1/2" Extension Sleeves And Hardware, Add	23.63	
For Vandal Proof Trim, Add	64.14	
22 42 16 13-0087 Removal And Reinstallation Of Lavatory And Trim (22 42 16 13)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 13-0088 EA Removal And Reinstallation Of Wall Hung Lavatory With Faucet.....	381.40	
22 42 16 16 Commercial Sinks (22 42 16)		
22 42 16 16-0001 Sinks (22 42 16 16)		
Note: Includes drain, trap and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 16-0002 Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0003 EA 25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®).....	776.39	121.89
22 42 16 16-0004 EA 22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®).....	981.44	138.76
22 42 16 16-0005 EA 15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517).....	853.04	119.30
For 18 Gauge, Add	183.38	
22 42 16 16-0006 EA 17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722).....	869.49	119.30
For 18 Gauge, Add	191.60	
22 42 16 16-0007 EA 22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222).....	906.51	119.30
For 18 Gauge, Add	210.11	
22 42 16 16-0008 EA 25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522).....	946.74	121.89
For 18 Gauge, Add	222.45	
22 42 16 16-0009 EA 31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122).....	1,158.03	138.76
For 18 Gauge, Add	303.35	
22 42 16 16-0010 EA 33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321).....	1,178.09	138.76
For 18 Gauge, Add	313.14	
22 42 16 16-0011 EA 33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322).....	1,440.66	138.76
22 42 16 16-0012 EA 15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710).....	1,119.72	119.30
22 42 16 16-0013 EA 17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210).....	1,138.23	119.30
22 42 16 16-0014 EA 22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210).....	1,184.85	119.30
22 42 16 16-0015 EA 25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210).....	1,254.56	121.89
22 42 16 16-0016 EA 31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210).....	1,493.27	138.76
22 42 16 16-0017 Undermount Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0018 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99).....	1,020.95	119.30
22 42 16 16-0019 EA 21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99).....	1,018.94	119.30
22 42 16 16-0020 EA 21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99).....	1,027.80	119.30
22 42 16 16-0021 EA 21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99).....	1,074.42	119.30



Plumbing	22
Plumbing Fixtures	22 40
Commercial Plumbing Fixtures	22 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0022 EA 21" x 15-3/4" x 4-3/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHAD2115) With Strainer (Elkay LK99).....	1,044.94	119.30
Note: Available in 4-1/2", 5, or 5-1/2" depths.		
22 42 16 16-0023 EA 25" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF2520) With Strainer (Elkay LK99).....	1,164.42	119.30
22 42 16 16-0024 EA 32" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF3320) With Strainer (Elkay LK99).....	1,343.06	119.30
22 42 16 16-0025 EA 21" x 18" x 5-1/2" Deep, Single Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. US-ADA-1821-A).....	872.39	119.30
22 42 16 16-0026 EA 32" x 18" x 5-1/2" Deep, Two Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. UD-ADA-1832-A).....	1,072.97	119.30
22 42 16 16-0027 Multi-Station Wash Sink, Wall Mounted (22 42 16 16-0001)		
Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.		
22 42 16 16-0028 EA 36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,007.97	210.72
Note: Excludes faucets.		
22 42 16 16-0029 EA 48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,617.81	226.94
Note: Excludes faucets.		
22 42 16 16-0030 EA 60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,988.14	243.14
Note: Excludes faucets.		
22 42 16 16-0031 EA 48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	1,953.87	162.10
Note: Excludes faucets.		
22 42 16 16-0032 EA 62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,165.45	178.30
Note: Excludes faucets.		
22 42 16 16-0033 EA 80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,373.33	194.51
Note: Excludes faucets.		
22 42 16 16-0034 EA 102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,637.58	218.83
Note: Excludes faucets.		
22 42 16 16-0035 EA 27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain.....	2,477.91	356.61
Note: Includes sensor operated spray heads.		
22 42 16 16-0036 Utility Or Laundry Sinks (22 42 16 16-0001)		
22 42 16 16-0037 EA 23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1).....	731.60	138.76
22 42 16 16-0038 EA 40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II).....	824.83	138.76
22 42 16 16-0039 EA 22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1).....	729.61	138.76
22 42 16 16-0040 EA 24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210).....	1,059.12	138.76
22 42 16 16-0041 EA 48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220).....	1,464.69	155.61
22 42 16 16-0042 Refinish Sink/Lavatory (22 42 16 16-0001)		
22 42 16 16-0043 EA Refinish Sink/Lavatory.....	291.76	
22 42 16 16-0044 Service Sinks (22 42 16 16-0001)		
22 42 16 16-0045 EA 22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™).....	1,037.54	208.78
22 42 16 16-0046 EA 24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™).....	1,088.40	208.78
22 42 16 16-0047 EA 28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™).....	1,383.01	276.21
22 42 16 16-0048 EA 12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zum FD2377-PO3-F).....	616.04	194.51
22 42 16 16-0049 EA 24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424).....	697.23	194.51
22 42 16 16-0050 EA 36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624).....	779.60	233.41
22 42 16 16-0051 EA 24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010).....	676.51	194.51
22 42 16 16-0052 EA 36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010).....	774.21	233.41
22 42 16 16-0053 EA 24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24).....	919.11	194.51
22 42 16 16-0054 EA 36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624).....	1,130.43	233.41
22 42 16 16-0055 Stainless Steel Sink And Drainboard (22 42 16 16-0001)		
22 42 16 16-0056 EA Stainless Steel Sink With One 24" x 24" x 14" Depth Compartment And Drainboard, 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L).....	3,081.47	324.19
22 42 16 16-0057 Sink Carriers (22 42 16 16)		
22 42 16 16-0058 Floor Mounted, Sink Carriers (22 42 16 16-0057)		
Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim.		
22 42 16 16-0059 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling.....	737.77	49.28
For Vandal Proof Trim, Add	64.14	
For Valve Plate For Attaching To Upright, Add	87.04	
22 42 16 16-0060 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting.....	1,123.70	49.28
For Vandal Proof Trim, Add	64.14	
For Auxiliary Vent, Add	193.95	

22	Plumbing
22 40	Plumbing Fixtures
22 42	Commercial Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0061 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms.....	1,398.26	49.28
For Up To 4" Extension Sleeves And Hardware, Add	48.38	
For Vandal Proof Trim, Add	64.14	
22 42 16 16-0062 Removal And Reinstallation Of Sink And Trim (22 42 16 16) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 16-0063 EA Removal And Reinstallation Of Wall Hung Service Sink With Faucet.....	522.89	
22 42 19 Commercial Bathtubs (22 42)		
22 42 19 00-0001 Recessed Alcove Bathtubs (22 42 19)		
22 42 19 00-0002 Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0003 EA 54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™).....	1,549.69	360.50
22 42 19 00-0004 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®).....	1,349.43	360.50
22 42 19 00-0005 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®).....	1,554.71	360.50
22 42 19 00-0006 EA 66" x 32" x 17", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Bellwether®).....	1,957.48	360.50
22 42 19 00-0007 Porcelain Enameled Steel, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0008 EA 60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®).....	770.88	360.50
22 42 19 00-0009 EA 60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®).....	785.22	360.50
22 42 19 00-0010 Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0011 EA 60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™).....	1,067.54	360.50
22 42 19 00-0012 Acrylic, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0013 EA 60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®).....	1,094.66	360.50
22 42 19 00-0014 EA 60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,268.04	360.50
22 42 19 00-0015 EA 66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,290.43	360.50
22 42 19 00-0016 EA 72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,276.67	360.50
22 42 19 00-0017 EA 72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®).....	1,326.18	360.50
22 42 19 00-0018 Bathtub Refinishing (22 42 19 00-0001)		
22 42 19 00-0019 EA Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel.....	683.21	
22 42 19 00-0020 Tub And Shower Combinations (22 42 19)		
22 42 19 00-0021 Acrylic Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0022 EA 1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032).....	1,162.61	121.72
For 2 Piece Enclosure, Deduct	-256.94	
22 42 19 00-0023 Fiberglass Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0024 EA 1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG).....	882.94	121.72
22 42 19 00-0025 EA 2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P).....	688.60	81.14
22 42 19 00-0026 EA 4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P).....	1,391.18	183.71
22 42 19 00-0027 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872).....	2,884.67	344.59
For 2 Piece Enclosure, Deduct	-603.04	
22 42 23 Commercial Showers (22 42)		
22 42 23 00-0001 Shower Enclosures (22 42 23) Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.		
22 42 23 00-0002 Powder Coated Or Baked Enamel Steel Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0003 EA 32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,529.99	209.15
22 42 23 00-0004 EA 36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,529.99	209.15
22 42 23 00-0005 EA 40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	2,241.47	209.15
22 42 23 00-0006 EA 40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions).....	2,452.68	209.15
22 42 23 00-0007 Solid Plastic Core High Density Polymer (HDP) Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0008 EA 32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,430.45	209.15
22 42 23 00-0009 EA 36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,430.45	209.15
22 42 23 00-0010 EA 40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	3,430.96	209.15
22 42 23 00-0011 EA 40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....	3,820.05	209.15
22 42 23 00-0012 Composite Fiberglass Shower Enclosure, 4 Piece Knock-Down (22 42 23 00-0001)		
22 42 23 00-0013 EA 32" x 32" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3232CS).....	1,304.36	209.15
22 42 23 00-0014 EA 36" x 36" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3636CS).....	1,337.24	209.15
22 42 23 00-0015 EA 34" x 48" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 4834CS).....	1,370.12	209.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 23 00-0016 EA 30" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6030CSL)	1,435.87	209.15
22 42 23 00-0017 EA 34" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6034CS)	1,523.00	209.15
22 42 23 00-0018 1 Piece Shower Units (22 42 23)		
22 42 23 00-0019 EA 1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232)	1,097.78	121.72
22 42 23 00-0020 EA 1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636)	1,218.36	121.72
22 42 23 00-0021 Personnel Type Shower Receptors (22 42 23)		
22 42 23 00-0022 Acrylic Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0023 EA 36" x 36" Acrylic Shower Receptor	516.23	52.82
22 42 23 00-0024 EA 42" x 42" Acrylic Shower Receptor	544.61	52.82
22 42 23 00-0025 EA 48" x 48" Acrylic Shower Receptor	601.26	52.82
22 42 23 00-0026 EA 60" x 60" Acrylic Shower Receptor	730.93	63.38
22 42 23 00-0027 EA 48" x 32" Acrylic Shower Receptor	517.57	52.82
22 42 23 00-0028 EA 48" x 36" Acrylic Shower Receptor	554.88	52.82
22 42 23 00-0029 EA 48" x 42" Acrylic Shower Receptor	624.29	52.82
22 42 23 00-0030 EA 60" x 30" Acrylic Shower Receptor	898.95	111.34
22 42 23 00-0031 EA 60" x 32" Acrylic Shower Receptor	695.62	63.38
22 42 23 00-0032 EA 60" x 36" Acrylic Shower Receptor	700.42	63.38
22 42 23 00-0033 EA 60" x 42" Acrylic Shower Receptor	704.83	63.38
22 42 23 00-0034 EA 60" x 48" Acrylic Shower Receptor	773.80	63.38
22 42 23 00-0035 EA 36" x 36" Acrylic Corner Shower Receptor	743.65	52.82
22 42 23 00-0036 EA 42" x 42" Acrylic Corner Shower Receptor	850.73	52.82
22 42 23 00-0037 EA 47-1/2" x 47-1/2" Acrylic Corner Shower Receptor	1,271.33	105.77
22 42 23 00-0038 Molded Stone Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0039 EA 32" x 32" Molded Stone Shower Receptor (Fiat 32WL)	351.26	52.82
22 42 23 00-0040 EA 34" x 34" Molded Stone Shower Receptor (Fiat 34WL)	367.26	52.82
22 42 23 00-0041 EA 36" x 36" Molded Stone Shower Receptor (Fiat 36WL)	369.04	52.82
22 42 23 00-0042 EA 42" x 42" Molded Stone Shower Receptor (Fiat 4242WL)	448.20	52.82
22 42 23 00-0043 EA 42" x 34" Molded Stone Shower Receptor (Fiat 42WL)	400.17	52.82
22 42 23 00-0044 EA 48" x 32" Molded Stone Shower Receptor (Fiat 4832WL)	422.41	52.82
22 42 23 00-0045 EA 48" x 34" Molded Stone Shower Receptor (Fiat 48WL)	425.07	52.82
22 42 23 00-0046 EA 54" x 34" Molded Stone Shower Receptor (Fiat 54WL)	493.20	63.38
22 42 23 00-0047 EA 60" x 34" Molded Stone Shower Receptor (Fiat 60WL)	510.10	63.38
22 42 23 00-0048 EA 36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WLC)	404.62	52.82
22 42 23 00-0049 EA 38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WLC)	414.40	52.82
22 42 23 00-0050 Precast Terrazzo Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0051 EA 30" x 30" Precast Terrazzo Shower Receptor	641.19	52.82
22 42 23 00-0052 EA 32" x 32" Precast Terrazzo Shower Receptor	665.20	52.82
22 42 23 00-0053 EA 34" x 34" Precast Terrazzo Shower Receptor	687.44	52.82
22 42 23 00-0054 EA 36" x 36" Precast Terrazzo Shower Receptor	690.11	52.82
22 42 23 00-0055 EA 40" x 40" Precast Terrazzo Shower Receptor	753.25	52.82
22 42 23 00-0056 EA 42" x 42" Precast Terrazzo Shower Receptor	785.27	52.82
22 42 23 00-0057 EA 48" x 48" Precast Terrazzo Shower Receptor	1,094.77	52.82
22 42 23 00-0058 EA 36" x 32" Precast Terrazzo Shower Receptor	682.10	52.82
22 42 23 00-0059 EA 42" x 32" Precast Terrazzo Shower Receptor	694.85	52.82
22 42 23 00-0060 EA 42" x 34" Precast Terrazzo Shower Receptor	717.68	52.82
22 42 23 00-0061 EA 42" x 36" Precast Terrazzo Shower Receptor	746.14	52.82
22 42 23 00-0062 EA 32" x 48" Precast Terrazzo Shower Receptor	748.80	52.82
22 42 23 00-0063 EA 48" x 34" Precast Terrazzo Shower Receptor	785.27	52.82
22 42 23 00-0064 EA 54" x 32" Precast Terrazzo Shower Receptor	821.73	52.82
22 42 23 00-0065 EA 60" x 30" Precast Terrazzo Shower Receptor	1,107.43	63.38
22 42 23 00-0066 EA 60" x 32" Precast Terrazzo Shower Receptor	1,208.34	63.38
22 42 23 00-0067 EA 60" x 34" Precast Terrazzo Shower Receptor	1,213.29	63.38
22 42 23 00-0068 EA 60" x 36" Precast Terrazzo Shower Receptor	1,218.22	63.38
22 42 23 00-0069 EA 32" x 32" Precast Terrazzo Corner Shower Receptor	693.66	52.82
22 42 23 00-0070 EA 34" x 34" Precast Terrazzo Corner Shower Receptor	694.85	52.82
22 42 23 00-0071 EA 36" x 36" Precast Terrazzo Corner Shower Receptor	697.22	52.82
22 42 23 00-0072 EA 40" x 40" Precast Terrazzo Corner Shower Receptor	831.52	52.82
22 42 23 00-0073 EA 36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,494.10	52.82
22 42 23 00-0074 EA 60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,665.39	63.38
22 42 23 00-0075 EA 60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor	1,734.76	63.38
22 42 23 00-0076 Shower Receptors Accessories (22 42 23 00-0021)		
22 42 23 00-0077 SF Polyvinyl Chloride (PVC) Shower Pan Liner	4.54	
22 42 23 00-0078 Removal And Reinstallation Of Fixtures And Trim (22 42 23)		
22 42 23 00-0079 EA Removal And Reinstallation Of Shower Head	63.38	

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
22 42 33 Wash Fountains (22 42)**22 42 33 00-0001 Circular Wash Fountain, Deep Bowl (22 42 33)**

Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.

22 42 33 00-0002	EA	36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD).....	8,063.78	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0003	EA	36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD).....	4,865.53	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0004	EA	36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE).....	8,329.94	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0005	EA	54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD).....	10,255.49	225.41
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0006	EA	54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD).....	5,612.17	225.41
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0007	EA	54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE).....	9,972.72	225.41
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	

22 42 33 00-0008 Semi-Circular Wash Fountain, Deep Bowl (22 42 33)

Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.

22 42 33 00-0009	EA	36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD).....	7,032.89	169.06
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0010	EA	36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD).....	4,434.04	169.06
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0011	EA	36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE).....	6,330.07	169.06
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0012	EA	54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD).....	8,621.17	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0013	EA	54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD).....	5,345.41	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	
22 42 33 00-0014	EA	54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE).....	7,527.30	197.24
		<i>For Metal Soap Dispenser, Add</i>	100.00	
		<i>For Stainless Steel Pedestal Panels, Add</i>	100.00	

22 42 39 Commercial Faucets, Supplies, and Trim (22 42)**22 42 39 00-0001 Kitchen Faucets (22 42 39)**

22 42 39 00-0002	EA	Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST).....	188.60	64.84
22 42 39 00-0003	EA	Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST).....	207.69	64.84
22 42 39 00-0004	EA	Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST).....	188.82	64.84
22 42 39 00-0005	EA	Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440-SS-DST).....	208.02	64.84
22 42 39 00-0006	EA	Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24).....	178.51	64.84
22 42 39 00-0007	EA	Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24).....	191.96	64.84
22 42 39 00-0008	EA	Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF).....	237.29	64.84
22 42 39 00-0009	EA	Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF).....	180.40	64.84
22 42 39 00-0010	EA	Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF).....	175.31	64.84
22 42 39 00-0011	EA	Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF).....	200.20	64.84
22 42 39 00-0012	EA	Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24).....	315.50	64.84
22 42 39 00-0013	EA	Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24).....	342.24	64.84
22 42 39 00-0014	EA	Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP).....	328.19	70.43
22 42 39 00-0015	EA	Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP).....	326.88	70.43
22 42 39 00-0016	EA	Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....	254.95	70.43
22 42 39 00-0017	EA	Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....	528.84	64.84
22 42 39 00-0018	EA	Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....	658.56	64.84
22 42 39 00-0019	EA	Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB).....	701.80	64.84



Plumbing	22	22
Plumbing Fixtures	22 40	
Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0020 EA Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay KKLFGT1041CR).....	528.84	64.84
22 42 39 00-0021 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay KKLFGT1041NK).....	658.56	64.84
22 42 39 00-0022 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay KKLFGT1041RB).....	701.80	64.84
22 42 39 00-0023 Lavatory Faucets (22 42 39)		
22 42 39 00-0024 EA Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST)	209.32	46.68
22 42 39 00-0025 EA 4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501LF-WF).....	154.10	46.68
22 42 39 00-0026 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2523LF-MPU)	184.31	46.68
22 42 39 00-0027 EA 4" Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2529LF-HDM)	199.37	46.68
22 42 39 00-0028 EA Classic Style Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3530LF-MPU).....	238.28	46.68
22 42 39 00-0029 EA Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3579LF-WFHDF)	272.84	46.68
22 42 39 00-0030 EA Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104)	177.81	46.68
22 42 39 00-0031 EA Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....	255.60	46.68
22 42 39 00-0032 EA Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665)	192.26	46.68
22 42 39 00-0033 EA 3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710)	196.05	46.68
22 42 39 00-0034 EA 3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712)	230.75	46.68
22 42 39 00-0035 EA 4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805)	226.65	46.68
22 42 39 00-0036 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn Z81104)	190.45	46.68
22 42 39 00-0037 Bath And Shower Faucets (22 42 39)		
22 42 39 00-0038 Bath And Shower Faucets With Valve Body (22 42 39 00-0037)		
22 42 39 00-0039 EA Single Lever Handle Chrome Tub Filler, Pressure-Balance (American Standard T480 500)	201.92	56.28
22 42 39 00-0040 EA Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....	230.41	56.28
22 42 39 00-0041 EA Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....	248.68	56.28
22 42 39 00-0042 EA Two Lever Handle, Chrome Tub Filler (American Standard Colony Soft 3275.505).....	189.50	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0043 EA Two Lever Handle, Chrome Shower Only (American Standard Colony Soft 3275.501)	196.80	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0044 EA Two Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3275.502)	217.99	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0045 EA Three Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3375.502).....	242.10	56.28
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0046 Shower Valves And Trim (22 42 39)		
<i>See CSI section 22 41 39 00-0011 for residential shower valves and heads.</i>		
22 42 39 00-0047 EA Senior Institutional Shower Head (Symmons® 4-150).....	197.35	56.28
22 42 39 00-0048 EA Universal Institutional Shower Head (Symmons® 4-151).....	306.14	56.28
22 42 39 00-0049 EA Fre-Flo Institutional Shower Head (Symmons® 4-295)	225.99	56.28
22 42 39 00-0050 EA Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385)	179.09	56.28
22 42 39 00-0051 EA Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X)	675.50	84.29
22 42 39 00-0052 EA Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....	577.09	97.26
22 42 39 00-0053 EA Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X)	735.85	97.26
22 42 39 00-0054 EA Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....	1,009.25	103.74
22 42 39 00-0055 EA Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....	350.77	87.53
22 42 39 00-0056 EA Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP)	685.17	87.53
22 42 39 00-0057 EA Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....	500.96	87.53
22 42 39 00-0058 EA Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....	918.69	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
<i>For Recessed Soap Dish, Add</i>	108.12	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0059 EA Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....	1,077.23	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
<i>For Recessed Soap Dish, Add</i>	108.12	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0060 EA Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S).....	758.87	87.53
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	19.32	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	78.39	
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0061 EA Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS).....	1,105.10	87.53
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0062 EA Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS).....	1,179.74	87.53
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	

22	Plumbing
22 40	Plumbing Fixtures
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0063	EA		Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....	2,109.33	87.53
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	227.79	
22 42 39 00-0064	EA		Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921).....	1,852.63	87.53
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0065	EA		Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....	969.53	87.53
22 42 39 00-0066	EA		Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....	1,445.75	87.53
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0067	EA		Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....	968.33	87.53
22 42 39 00-0068	EA		Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS).....	965.70	87.53
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
22 42 39 00-0069	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....	707.55	77.81
22 42 39 00-0070	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500).....	540.23	56.28
22 42 39 00-0071			Service Sink Faucets (22 42 39)		
22 42 39 00-0072	EA		4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (Kohler® Kinlock™).....	426.87	107.95
22 42 39 00-0073	EA		3" Spout, Wall Mount, Service Sink Faucet With Lever Handles (American Standard 8340.235).....	325.03	107.95
22 42 39 00-0074	EA		3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (American Standard 8340.243).....	344.75	107.95
22 42 39 00-0075	EA		6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012).....	354.98	107.95
22 42 39 00-0076	EA		7-1/4" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.101).....	470.23	151.33
22 42 39 00-0077	EA		7-1/4" Spout With Vacuum Break And Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.110).....	528.95	172.47
22 42 39 00-0078	EA		11" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8345.115).....	593.24	172.47
22 42 39 00-0079	EA		Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRCF).....	352.83	107.95
22 42 39 00-0080	EA		8" Spout Wall Mount Service Sink, Wrist Blade Handles (Chicago 445-L8ABCP).....	536.04	172.47
22 42 39 00-0081	EA		44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-XKCAB).....	690.26	172.47
22 42 39 00-0082			Laboratory Faucets And Fittings (22 42 39)		
22 42 39 00-0083	EA		Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927).....	174.51	45.91
22 42 39 00-0084	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 929).....	279.12	64.84
22 42 39 00-0085	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet With Vacuum Breaker (Chicago Faucet 930).....	349.43	64.84
22 42 39 00-0086	EA		Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933).....	228.15	60.55
22 42 39 00-0087	EA		6" Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940).....	312.72	86.36
22 42 39 00-0088	EA		6" Spout With Aerator And Vacuum Breaker, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940-VBE7-CP).....	404.39	86.36
22 42 39 00-0089	EA		Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 946).....	320.73	64.84
22 42 39 00-0090	EA		Gooseneck Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 942).....	329.38	86.36
22 42 39 00-0091	EA		Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP).....	211.35	49.86
22 42 39 00-0092	EA		Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP).....	297.95	70.43
22 42 39 00-0093	EA		4" Center Set, Deck Mount, Lavatory Faucet With Blade Handles (Chicago Faucet 802).....	239.86	70.43
22 42 39 00-0094	EA		4" Center Set, Deck Mount, Gooseneck Sink Faucet With Blade Handles (Chicago Faucet 895-317CP).....	282.97	70.43
22 42 39 00-0095	EA		Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP).....	89.68	43.31
22 42 39 00-0096	EA		Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP).....	436.47	77.81
22 42 39 00-0097	EA		Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP).....	547.22	77.81
22 42 39 00-0098	EA		Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP).....	648.12	77.81
22 42 39 00-0099	EA		Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7CP).....	578.83	77.81
22 42 39 00-0100	EA		Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM).....	679.87	77.81
22 42 39 00-0101	EA		Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA).....	149.13	42.80
22 42 39 00-0102	EA		90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA).....	205.09	51.35
22 42 39 00-0103	EA		180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA).....	205.09	51.35
22 42 39 00-0104	EA		Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA).....	261.05	59.91
22 42 39 00-0105	EA		Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA).....	317.00	68.47
22 42 39 00-0106			Gooseneck Faucets With Independent Eyewash (22 42 39)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0107 EA Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA).....	765.97	48.63
22 42 39 00-0108 EA Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL).....	826.19	45.38
22 42 39 00-0109 EA 8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8).....	1,060.85	48.63
22 42 39 00-0110 EA Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST).....	1,118.89	48.63
22 42 39 00-0111 EA Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW).....	1,343.99	32.42
22 42 39 00-0112 EA Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP).....	1,643.89	81.05
22 42 39 00-0113 EA Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW).....	2,277.14	81.05
22 42 39 00-0114 EA 8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW).....	2,351.02	81.05
22 42 39 00-0115 EA Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101).....	275.72	49.30
22 42 39 00-0116 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200).....	300.14	49.30
22 42 39 00-0117 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201).....	321.46	49.30
22 42 39 00-0118 EA 6 Gallon Capacity, Tempering Valve (WaterSaver AP3600).....	1,293.84	32.42
22 42 39 00-0119 Bubblers And Glass Fillers (22 42 39)		
22 42 39 00-0120 EA Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP).....	285.57	45.91
22 42 39 00-0121 EA Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP).....	267.04	60.55
22 42 39 00-0122 EA 7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP).....	282.07	45.91
22 42 39 00-0123 EA Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP).....	198.11	65.77
22 42 39 00-0124 EA Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF).....	331.83	49.86
22 42 39 00-0125 EA Push Button Bubbler, 1/2" OD (Haws 5017LF).....	335.84	49.86
22 42 39 00-0126 EA Push Button Bubbler, 3/8" NPT (Haws 5010-6427).....	285.07	49.86
22 42 39 00-0127 Automatic Electronic Sensor Faucets (22 42 39)		
22 42 39 00-0128 EA Electronic Lavatory Faucet (American Standard 6055.205.002).....	537.63	108.15
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0129 EA Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002).....	542.02	108.15
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0130 EA Electronic Gooseneck Faucet (Chicago Faucet 116.103.AB.1).....	709.12	117.46
22 42 39 00-0131 EA Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1).....	729.96	108.15
22 42 39 00-0132 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880).....	1,056.25	117.46
22 42 39 00-0133 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT).....	1,303.27	117.46
22 42 39 00-0134 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187).....	1,222.27	117.46
22 42 39 00-0135 EA Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM).....	869.98	108.15
22 42 39 00-0136 EA Deck Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1100).....	888.40	108.15
22 42 39 00-0137 EA Wall Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1101).....	935.77	108.15
22 42 39 00-0138 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC1102).....	817.35	108.15
22 42 39 00-0139 EA Deck Mount, DC Power, Electronic Lavatory Faucet (T&S Brass EC2100).....	935.77	108.15
22 42 39 00-0140 EA Deck Mount, DC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC2102).....	823.95	108.15
22 42 39 00-0141 EA Deck Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3100).....	823.95	108.15
22 42 39 00-0142 EA Wall Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3101).....	921.33	108.15
22 42 39 00-0143 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3102).....	789.06	108.15
22 42 39 00-0144 EA 4" Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3103).....	759.18	108.15
22 42 39 00-0145 EA Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60).....	1,027.87	108.15
22 42 39 00-0146 Other Trim (22 42 39)		
22 42 39 00-0147 EA Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330).....	19.52	7.04
22 42 39 00-0148 EA 1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP).....	123.74	21.13
22 42 39 00-0149 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Angle Stop (SharkBite 23036).....	38.50	13.61
22 42 39 00-0150 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Straight Stop (SharkBite 23037).....	38.50	13.61
22 42 39 00-0151 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Dual Angle Stop (SharkBite 25558).....	48.78	13.61
22 42 39 00-0152 PR 16" Long, 3/8" OD x 1/2" IPS, Stainless Steel Braided Sink Supply Line (Pair).....	38.27	14.96
22 42 39 00-0153 EA 12" Long, 3/8" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	23.39	8.80
22 42 39 00-0154 EA 12" Long, 1/2" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	23.85	8.80
22 42 39 00-0155 Removal And Reinstallation Of Fixtures And Trim (22 42 39)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 39 00-0156 EA Removal And Reinstallation Of Faucet.....	112.67	
22 42 43 Flushometers (22 42)		
22 42 43 00-0001 Water Closet Flush Valves (22 42 43)		
22 42 43 00-0002 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL).....	291.87	44.22
22 42 43 00-0003 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6).....	283.66	44.22
22 42 43 00-0004 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111).....	325.42	44.22
22 42 43 00-0005 EA Back Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-140).....	447.91	44.22
22 42 43 00-0006 EA Top Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-142).....	494.99	44.22
22 42 43 00-0007 EA Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S).....	881.52	44.22
22 42 43 00-0008 EA Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S).....	889.94	44.22
22 42 43 00-0009 EA Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S).....	937.43	44.22
22 42 43 00-0010 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113).....	873.67	44.22

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 43 00-0011 EA Dual Flush Water Closet Flush Valve (Sloan Uppercut WES-115) Note: "Green". 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.	399.87	44.22
22 42 43 00-0012 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110).....	609.54	44.22
22 42 43 00-0013 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89A)	388.24	44.22
22 42 43 00-0014 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40118X).....	385.00	44.22
22 42 43 00-0015 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima Smooth EBV-200A)	380.91	38.90
22 42 43 00-0016 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40180X).....	412.90	38.90
22 42 43 00-0017 EA 1.28 GPF, Exposed Infrared Water Closet Flush Valve (Toto EcoPower TET1LN).....	893.79	44.22
22 42 43 00-0018 EA Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32)	976.55	44.22
22 42 43 00-0019 EA 1.28 GPF, Back Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN31 Or TET3LN31)	1,241.69	44.22
22 42 43 00-0020 EA 1.28 GPF, Top Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN32 Or TET3LN32)	1,241.69	44.22
22 42 43 00-0021 EA Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS)	811.70	44.22
22 42 43 00-0022 EA Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV)	804.69	44.22
22 42 43 00-0023 EA Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A).....	398.94	38.90
22 42 43 00-0024 EA 6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451).....	124.80	6.85
22 42 43 00-0025 EA Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28)	564.32	44.22
22 42 43 00-0026 EA Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET).....	312.39	44.22
22 42 43 00-0027 EA Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET)	833.59	44.22
22 42 43 00-0028 Urinal Flush Valves (22 42 43)		
22 42 43 00-0029 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 186 XL)	224.68	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0030 EA 1-1/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 180).....	239.16	44.22
Note: 1.0, 1.5 or 3.5 GPF.		
22 42 43 00-0031 EA Back Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 195)	308.33	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0032 EA Top Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 197).....	365.32	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0033 EA Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S)	553.17	44.22
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0034 EA Back Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 195-WB-ES-S).....	730.50	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0035 EA Top Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 197-WB-ES-S).....	814.96	44.22
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0036 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Sloan G2 Opt+8186-1).....	544.70	44.22
Note: 1.0 GPF.		
22 42 43 00-0037 EA Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12).....	971.22	44.22
Note: 0.5 GPF.		
22 42 43 00-0038 EA Top Spud, Exposed Solar/Battery Powered Urinal Flush Valve (Sloan Solis 8186-0.13)	499.48	44.22
Note: 0.13 GPF.		
22 42 43 00-0039 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Zurn Z6003AV-ULF).....	251.86	44.22
Note: 0.125 GPF.		
22 42 43 00-0040 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Zurn ZTR6203-ULF)	584.50	44.22
Note: 0.125 GPF.		
22 42 43 00-0041 EA Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS).....	601.54	44.22
Note: 0.125 GPF.		
22 42 43 00-0042 Removal And Reinstallation Of Fixtures And Trim (22 42 43)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 43 00-0043 EA Removal And Reinstallation Of Flush Valve	176.05	
22 42 43 00-0044 Plumbing Control Transformers (22 42 43)		
22 42 43 00-0045 EA 6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....	57.48	
22 42 46 Chemical Toilets (22 42)		
Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.		
22 42 46 00-0001 Standard Chemical Toilets (22 42 46)		
22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0003 EA Chemical Toilet, Small Tank 7,000 Uses/Year.....	5,350.14	1,296.75
For Extra Urinal, Add	171.92	
22 42 46 00-0004 Medium Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0005 EA Chemical Toilet, Medium Tank 13,000 Uses/Year.....	6,359.90	1,544.44
For Extra Urinal, Add	203.74	
22 42 46 00-0006 Large Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0007 EA Chemical Toilet, Large Tank 28,000 Uses/Year	7,589.17	1,751.91
For Extra Urinal, Add	268.78	

22 43 Healthcare Plumbing Fixtures (22 40)



Plumbing	22	22
Plumbing Fixtures	22 40	
Healthcare Plumbing Fixtures	22 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 13 Healthcare Water Closets (22 43)		
22 43 13 00-0001 Healthcare Water Closets (22 43 13)		
22 43 13 00-0002 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA)	936.96	134.86
22 43 13 00-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA).....	766.10	134.86
22 43 16 Healthcare Sinks (22 43)		
22 43 16 00-0001 Healthcare Sinks (22 43 16)		
Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.		
22 43 16 00-0002 EA 25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard)	1,225.72	86.88
<i>For Stainless Steel Rim Guards (Three Sides), Add</i>		
103.67		
22 43 16 00-0003 EA 29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard).....	1,350.45	249.62
<i>For Stainless Steel Rim Guards (Three Sides), Add</i>		
103.67		
<i>For Pedestal Base, Add</i>		
475.30		
22 43 16 00-0004 EA 28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard).....	1,180.08	86.88
<i>For Painted Bracket Supports, Add</i>		
175.41		
22 43 16 00-0005 EA 20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard).....	1,043.16	86.88
22 43 39 Healthcare Faucets (22 43)		
22 43 39 00-0001 Medical Faucet Spouts (22 43 39)		
22 43 39 00-0002 EA Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522)	105.00	19.45
22 43 39 00-0003 Electronic Proximity Medical Faucets (22 43 39)		
22 43 39 00-0004 EA DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard Selectronic™ ICU).....	581.06	95.18
<i>For Hard Wired AC Powered, Add</i>		
23.61		
22 43 39 00-0005 Foot And Knee Faucet Controls (22 43 39)		
22 43 39 00-0006 EA Single Supply Metering Pedal Valve (Chicago Faucet 628)	403.01	172.99
22 43 39 00-0007 EA Double Supply Metering Pedal Valve (Chicago Faucet 625).....	453.42	172.99
22 43 39 00-0008 EA Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOCP)	842.00	172.99
22 43 39 00-0009 EA Double Knee Actuated Metering Mixing Valve (American Standard 7676).....	697.09	172.99
22 43 39 00-0010 Centerset Medical Faucets (22 43 39)		
22 43 39 00-0011 EA Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers (T&S B-0865-04)	460.02	95.18
22 43 39 00-0012 EA Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0866-04)	464.58	95.18
22 43 39 00-0013 EA Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0867-04)	464.12	95.18
22 43 39 00-0014 EA Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04).....	420.74	95.18
22 43 39 00-0015 EA Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S B-0323-04).....	405.22	95.18
22 43 39 00-0016 Bedpan Washers (22 43 39)		
22 43 39 00-0017 EA Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose (T&S B-0675)	1,059.15	172.99
22 43 39 00-0018 EA Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection, Extended Spray Polyvinyl Chloride Hose (T&S B-0676)	1,011.34	172.99
22 43 39 00-0019 EA Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection Polyvinyl Chloride Hose (T&S B-0685).....	997.18	172.99
22 43 39 00-0020 EA Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose, Extended Spray (T&S B-0686)	983.41	172.99
22 43 43 Healthcare Plumbing Fixture Flushometers (22 43)		
22 43 43 00-0001 Healthcare Plumbing Fixture Flushometers (22 43 43)		
22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117).....	241.34	44.22
22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW).....	507.67	44.22
22 43 46 Healthcare Patient Care Units (22 43)		
22 43 46 00-0001 Patient Care Units (22 43 46)		
22 43 46 00-0002 EA 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV)	16,215.27	259.35
<i>For SDB Single Temperature Dialysis Box, Add</i>		
1,162.81		
<i>For DDB Dual Temperature Dialysis Box, Add</i>		
1,235.03		
<i>For BWSEV Bedpan Washer With Elevated Valve, Add</i>		
959.72		
<i>For LOCK Flush Valve Lockout Device, Add</i>		
655.43		

22	Plumbing
22 40	Plumbing Fixtures
22 43	Healthcare Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 46 00-0003 EA 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC-AQCT-WB)	12,803.01	226.94
For SDB Single Temperature Dialysis Box, Add	1,162.81	
For DDB Dual Temperature Dialysis Box, Add	1,235.03	
For BWSEV Bedpan Washer With Elevated Valve, Add	959.72	
For LOCK Flush Valve Lockout Device, Add	655.43	
22 43 46 00-0004 Patient Care Plumbing Accessories (22 43 46)		
22 43 46 00-0005 EA One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920).....	1,537.34	35.21
22 43 46 00-0006 EA Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919).....	1,691.53	35.21
22 45 Emergency Plumbing Fixtures (22 40)		
22 45 13 Emergency Showers (22 45)		
22 45 13 00-0001 Emergency Drench Showers (22 45 13)		
22 45 13 00-0002 Emergency Drench Showers (Haws) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0003 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122)	744.14	226.94
22 45 13 00-0004 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123)	834.23	226.94
22 45 13 00-0005 EA Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC).....	884.28	226.94
22 45 13 00-0006 EA Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130)	1,034.42	226.94
22 45 13 00-0007 EA Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H).....	1,344.72	226.94
22 45 13 00-0008 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100)	1,109.27	259.35
22 45 13 00-0009 EA Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP)	1,219.15	291.77
22 45 13 00-0010 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169).....	1,124.06	291.77
22 45 13 00-0011 EA Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163)	1,144.08	291.77
22 45 13 00-0012 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164)	1,519.44	291.77
22 45 13 00-0013 Emergency Drench Showers (Speakman) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0014 EA Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220)	657.34	226.94
22 45 13 00-0015 EA Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227).....	672.54	226.94
22 45 13 00-0016 EA Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253).....	992.37	259.35
22 45 13 00-0017 Emergency Drench Showers (WaterSaver) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0018 EA Emergency Shower, Vertically Mounted (WaterSaver ES635)	809.85	226.94
22 45 13 00-0019 EA Emergency Shower, Horizontally Mounted (WaterSaver ES643)	825.42	226.94
22 45 13 00-0020 EA All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691)	1,587.79	226.94
22 45 13 00-0021 EA Emergency Shower, Recess Mounted (WaterSaver ES629)	1,238.09	291.77
22 45 13 00-0022 EA Emergency Shower, Semi-Concealed (WaterSaver ES658)	1,590.32	291.77
22 45 16 Eyewash Equipment (22 45)		
22 45 16 00-0001 Emergency Eyewash Equipment (22 45 16)		
22 45 16 00-0002 Emergency Eyewash Equipment (Haws) (22 45 16 00-0001)		
22 45 16 00-0003 EA Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620).....	273.22	6.48
22 45 16 00-0004 EA Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP).....	1,439.37	291.77
22 45 16 00-0005 Emergency Eyewash Equipment (WaterSaver) (22 45 16 00-0001)		
22 45 16 00-0006 EA Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805)	690.62	64.84
22 45 16 00-0007 EA Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH).....	690.62	64.84
22 45 16 00-0008 EA Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806)	702.41	64.84
22 45 16 00-0009 EA Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH).....	702.41	64.84
22 45 16 00-0010 EA Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822)	918.95	64.84
22 45 16 00-0011 EA Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848).....	1,040.94	64.84
22 45 16 00-0012 EA Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849).....	1,040.94	64.84
22 45 16 00-0013 EA Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893)	1,891.75	64.84
22 45 16 00-0014 EA Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH).....	1,891.75	64.84
22 45 16 00-0015 EA Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895)	1,977.59	64.84
22 45 16 00-0016 EA Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895LH)	1,977.59	64.84
22 45 16 00-0017 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898)	2,429.28	64.84
22 45 16 00-0018 EA Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899).....	2,429.28	64.84
22 45 16 00-0019 EA Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808)	1,343.92	226.94



Plumbing	22	22
Plumbing Fixtures	22 40	
Emergency Plumbing Fixtures	22 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 16 00-0020 EA Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810).....	1,327.27	226.94
22 45 16 00-0021 EA Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814).....	999.11	226.94
22 45 16 00-0022 EA Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC).....	1,345.18	226.94
22 45 16 00-0023 EA Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P).....	875.56	226.94
22 45 23 Personal Eyewash Equipment (22 45)		
22 45 23 00-0001 Portable Eyewash Equipment (22 45 23)		
22 45 23 00-0002 Portable Eyewash Equipment (Bradley) (22 45 23 00-0001)		
22 45 23 00-0003 EA Portable (Wall Mounted) Heated Gravity-Fed Emergency Eye/Face Wash (Bradley S19-921H).....	1,514.72	19.45
22 45 26 Eye/Face Wash Equipment (22 45)		
22 45 26 00-0001 Emergency Eye/Face Wash Equipment (22 45 26)		
22 45 26 00-0002 Emergency Eye/Face Wash Equipment (Haws) (22 45 26 00-0001)		
22 45 26 00-0003 EA Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7460).....	759.61	162.10
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0004 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws 7324).....	799.19	226.94
22 45 26 00-0005 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260B-7270B).....	784.18	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0006 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260BT-7270BT).....	843.24	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0007 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360B-7460B).....	849.24	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0008 EA Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BT-7460BT).....	920.31	226.94
Note: Excludes p-trap and tailpiece.		
22 45 26 00-0009 EA Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BTWC).....	1,204.58	226.94
22 45 26 00-0010 EA Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B).....	2,155.50	226.94
22 45 26 00-0011 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7261-7271).....	969.13	259.35
22 45 26 00-0012 EA Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7361-7461).....	1,084.25	259.35
22 45 26 00-0013 EA Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7777).....	2,245.36	259.35
22 45 26 00-0014 EA Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611).....	595.12	64.84
22 45 26 00-0015 EA Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612).....	575.10	64.84
22 45 26 00-0016 EA Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612LH).....	600.12	64.84
22 45 26 00-0017 EA Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7610).....	745.26	64.84
22 45 26 00-0018 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCC).....	1,909.59	324.19
22 45 26 00-0019 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCSM).....	2,235.36	259.35
22 45 26 00-0020 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC).....	2,329.99	324.19
22 45 26 00-0021 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCSM).....	2,665.77	259.35
22 45 26 00-0022 Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)		
22 45 26 00-0023 EA Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495).....	720.67	226.94
22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-496).....	870.78	259.35
22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)		
22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....	1,216.28	226.94
22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver FE724BC).....	1,562.35	226.94
22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....	1,518.35	226.94
22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....	1,413.37	226.94
22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....	724.96	64.84
22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH).....	724.96	64.84
22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775).....	704.48	64.84
22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH).....	704.48	64.84
22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778).....	1,056.33	64.84
22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779).....	1,056.33	64.84

22	Plumbing
22 40	Plumbing Fixtures
22 45	Emergency Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 26 00-0036 Emergency Eye/Face Wash Equipment (Guardian) <small>(22 45 26 00-0001)</small> Note: Includes one pull rod.		
22 45 26 00-0037 EA All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994).....	4,617.67	226.94
22 45 29 Hand-Held Emergency Drench Hoses <small>(22 45)</small>		
22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose <small>(22 45 29)</small>		
22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) <small>(22 45 29 00-0001)</small>		
22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904).....	642.56	81.05
22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905).....	732.65	81.05
22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) <small>(22 45 29 00-0001)</small>		
22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020).....	574.81	81.05
22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025).....	533.71	81.05
22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014).....	775.53	81.05
22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022).....	729.79	81.05
22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026).....	746.17	81.05
22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028).....	961.81	81.05
22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB).....	1,105.23	81.05
22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041).....	1,056.60	81.05
22 45 33 Combination Emergency Fixture Units <small>(22 45)</small>		
22 45 33 00-0001 Emergency Shower With Eye/Face Wash <small>(22 45 33)</small>		
22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) <small>(22 45 33 00-0001)</small>		
22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330).....	3,770.71	421.45
22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP).....	2,629.61	421.45
Note: Includes freeze protection bury valve.		
22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309).....	1,903.91	421.45
22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300.158).....	2,889.86	421.45
22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP).....	2,184.18	421.45
22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC).....	2,069.07	421.45
22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317).....	1,803.82	421.45
22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336).....	2,799.78	421.45
22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC).....	3,045.01	421.45
22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW).....	3,100.07	421.45
22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC).....	3,435.39	421.45
22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD).....	3,630.58	421.45
22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW).....	3,575.52	421.45
22 45 33 00-0016 EA Floor Mounted, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP).....	5,227.12	421.45
22 45 33 00-0017 EA Floor Mounted, 220 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V).....	5,497.38	421.45
22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1).....	11,353.02	421.45
22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320-8325).....	1,803.82	421.45
22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP).....	2,009.01	421.45
22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman) <small>(22 45 33 00-0001)</small>		
22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690).....	1,621.36	421.45



Plumbing	22	
Plumbing Fixtures	22 40	22
Emergency Plumbing Fixtures	22 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver) <small>(22 45 33 00-0001)</small>		
22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994)	4,989.94	352.11
22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC)	5,094.23	352.11
22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902)	2,154.93	352.11
22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P)	1,992.67	352.11
22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC)	2,500.99	352.11
22 45 36 Emergency Fixture Water-Tempering Equipment <small>(22 45)</small>		
22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment <small>(22 45 36)</small>		
22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws) <small>(22 45 36 00-0001)</small>		
22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EW)	677.60	81.05
22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE)	972.88	81.05
22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E)	1,408.30	81.05
22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E)	1,653.54	81.05
22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H)	2,324.18	81.05
22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE)	2,449.30	81.05
22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE)	4,085.88	81.05
22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF)	4,901.67	81.05
22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B)	752.67	81.05
22 45 39 Emergency Plumbing Fixture Accessories <small>(22 45)</small>		
22 45 39 00-0001 Emergency Plumbing Fixture Accessories <small>(22 45 39)</small>		
22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws) <small>(22 45 39 00-0001)</small>		
22 45 39 00-0003 EA Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220)	176.99	25.94
22 45 39 00-0004 EA Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W)	242.05	25.94
22 45 39 00-0005 EA Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS)	252.06	25.94
22 45 39 00-0006 EA Axion® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS)	269.69	9.73
22 45 39 00-0007 EA Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102)	273.22	6.48
22 45 39 00-0008 EA 3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020)	301.21	12.97
22 45 39 00-0009 EA Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK)	569.87	97.26
22 45 39 00-0010 EA Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLTEXP)	552.67	41.11
22 45 39 00-0011 EA Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT)	812.92	41.11
22 45 39 00-0012 EA Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037)	972.88	97.26
22 45 39 00-0013 EA Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LTEXP)	1,788.87	41.11
22 45 39 00-0014 EA 1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5)	2,025.74	137.03
22 45 39 00-0015 EA 1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001)	2,065.78	137.03
22 45 39 00-0016 EA 1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP)	3,777.43	137.03
22 45 39 00-0017 EA 1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1)	7,130.66	137.03
22 45 39 00-0018 Emergency Plumbing Fixture Accessories (Speakman) <small>(22 45 39 00-0001)</small>		
22 45 39 00-0019 EA Privacy Curtain For Emergency Showers	954.08	97.26
	Note: Curtain includes stainless steel curtain rod and mounting accessories.	
22 45 39 00-0020 Emergency Plumbing Fixture Accessories (WaterSaver) <small>(22 45 39 00-0001)</small>		
22 45 39 00-0021 EA Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC)	152.08	21.13
22 46 Security Plumbing Fixtures <small>(22 40)</small>		
22 46 13 Security Water Closets and Urinals <small>(22 46)</small>		
22 46 13 13 Security Water Closets <small>(22 46 13)</small>		
22 46 13 13-0001 Security Water Closets <small>(22 46 13 13)</small>		
22 46 13 13-0002 EA Security Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum (Acorn 1675)	3,382.87	324.19
	<i>For Angled Toilet, Add</i>	32.42
	<i>For Offset Toilet, Add</i>	305.87

22	Plumbing
22 40	Plumbing Fixtures
22 46	Security Plumbing Fixtures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 13 13-0003	EA		Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum (Acorn 1684).....	4,087.24	324.19
			<i>For Angled Toilet, Add</i>	32.42	
			<i>For Offset Toilet, Add</i>	376.31	
22 46 13 13-0004	EA		Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum (Acorn 1695).....	4,148.95	324.19
			<i>For Angled Toilet, Add</i>	32.42	
			<i>For Offset Toilet, Add</i>	382.48	
22 46 13 13-0005	EA		Recessed Tissue Holder For Security Water Closet, Stainless Steel (Acorn 1840).....	382.80	64.84
22 46 13 16 Security Urinals (22 46 13)					
22 46 13 16-0001			Security Urinals (22 46 13 16)		
22 46 13 16-0002	EA		Security Urinal, Back Supply And Flush, Wall Hung, Stainless Steel (Acorn 1700).....	3,994.75	291.77
22 46 13 16-0003	EA		Security Urinal, Back Supply And Flush, Stall, Stainless Steel (Acorn 1720).....	6,772.67	414.58
22 46 13 19 Security Combination Toilet and Lavatory (22 46 13)					
22 46 13 19-0001			Security Combination Toilet - Lavatory (22 46 13 19)		
22 46 13 19-0002	EA		15" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1415).....	6,119.77	401.99
			<i>For Angled Toilet, Add</i>	40.20	
			<i>For Offset Toilet, Add</i>	571.78	
			<i>For 15" Mirror/Shelf Module, Add</i>	952.00	
			<i>For AC Duplex Outlet Option, Add</i>	110.40	
			<i>For Intercom Option, Add</i>	155.40	
			<i>For 15" Wide Light/Ventilation Module, Add</i>	876.20	
22 46 13 19-0003	EA		18" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1418).....	6,305.50	421.45
			<i>For Angled Toilet, Add</i>	42.14	
			<i>For Offset Toilet, Add</i>	588.41	
			<i>For 18" Mirror/Shelf Module, Add</i>	996.45	
			<i>For AC Duplex Outlet Option, Add</i>	114.29	
			<i>For Intercom Option, Add</i>	159.29	
			<i>For 18" Wide Light/Ventilation Module, Add</i>	902.87	
22 46 13 19-0004	EA		20" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1420).....	6,446.56	440.89
			<i>For Angled Toilet, Add</i>	44.09	
			<i>For Offset Toilet, Add</i>	600.57	
			<i>For 20" Mirror/Shelf Module, Add</i>	1,050.90	
			<i>For AC Duplex Outlet Option, Add</i>	118.18	
			<i>For Intercom Option, Add</i>	163.18	
			<i>For 20" Wide Light/Ventilation Module, Add</i>	939.54	
22 46 13 19-0005	EA		26" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1426).....	6,898.28	460.35
			<i>For Angled Toilet, Add</i>	46.03	
			<i>For Offset Toilet, Add</i>	643.79	
			<i>For 26" Mirror/Shelf Module, Add</i>	1,095.35	
			<i>For AC Duplex Outlet Option, Add</i>	122.07	
			<i>For Intercom Option, Add</i>	167.07	
			<i>For 26" Wide Light/Ventilation Module, Add</i>	971.21	
22 46 13 19-0006	EA		28" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel (Acorn 1428).....	11,101.71	479.80
			<i>For Angled Toilet, Add</i>	47.98	
			<i>For Offset Toilet, Add</i>	1,062.19	
			<i>For 28" Mirror/Shelf Module, Add</i>	1,134.80	
			<i>For AC Duplex Outlet Option, Add</i>	125.96	
			<i>For Intercom Option, Add</i>	170.96	
			<i>For 28" Wide Light/Ventilation Module, Add</i>	1,002.88	
22 46 16 Security Lavatories and Sinks (22 46)					
22 46 16 13 Security Lavatories (22 46 16)					
22 46 16 13-0001			Security Lavatories (22 46 16 13)		
22 46 16 13-0002	EA		20" Security Lavatory, Wall Hung, Push Button Filler Valve, Rectangular Bowl, Stainless Steel (Acorn 1650).....	2,437.74	226.94
			<i>For Shelf, Add</i>	103.08	
22 46 16 13-0003	EA		18" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Stainless Steel (Acorn 1655).....	2,478.59	226.94
			<i>For Shelf, Add</i>	103.08	
22 46 16 13-0004	EA		13" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Corner Mount, Stainless Steel (Acorn 1660).....	2,823.62	226.94
			<i>For Shelf, Add</i>	103.08	
22 46 16 13-0005	EA		18" Security Lavatory, Wall Hung, Push Button Filler Valve, Multi Sided Bowl, Stainless Steel (Acorn 1656).....	2,478.59	226.94
			<i>For Shelf, Add</i>	103.08	
22 46 16 16 Security Sinks (22 46 16)					
22 46 16 16-0001			Security Sinks (22 46 16 16)		
22 46 16 16-0002	EA		22" x 16" x 10" Security Service Sink, With Soap Dish, Stainless Steel (Acorn 1642).....	5,235.53	345.58



Plumbing	22	22
Plumbing Fixtures	22 40	
Security Plumbing Fixtures	22 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 16 16-0003 Security Mop Sink <small>(22 46 16 16)</small>		
22 46 16 16-0004 EA 24" x 24" x 10" Stainless Steel Mop Sink With Strainer (ACORN 1630).....	3,419.26	194.51
22 46 19 Security Showers <small>(22 46)</small>		
22 46 19 00-0001 EA Security Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel (Acorn 1741).....	885.89	173.11
22 46 19 00-0002 EA Security Shower Head With Mixing Valves And Piping Assembly In Wall (Acorn 1743).....	642.33	90.78
22 46 19 00-0003 EA 30" Security Shower, Stainless Steel, Knock-Down (Acorn 1730-3M-KD).....	13,632.90	518.70
22 46 19 00-0004 EA 32" Security Shower, Stainless Steel, Knock-Down (Acorn 1732-3M-KD).....	14,126.60	518.70
22 46 19 00-0005 EA 36" Security Shower, Stainless Steel, Knock-Down (Acorn 1736-3M-KD).....	14,634.70	518.70
22 46 19 00-0006 EA 36" ADA Security Shower, Stainless Steel, Front Access (Acorn 1736-ADA-3M-FA).....	18,613.09	518.70
22 46 19 00-0007 EA Wall Mounted Security Shower, Stainless Steel (Acorn 452).....	1,368.74	136.16
For PWT Electronic FV, Add	148.00	
22 46 19 00-0008 EA Wall Mounted ADA Security Shower, Stainless Steel (Acorn 452 ADA).....	1,654.68	136.16
For PWT Electronic FV, Add	148.00	
22 46 56 Security Drinking Fountains <small>(22 46)</small>		
22 46 56 00-0001 Security Drinking Fountain <small>(22 46 56)</small>		
Note: Includes air control valve, bubbler with mouthguard and mounting bracket.		
22 46 56 00-0002 EA Wall Mounted Security Drinking Fountain, Stainless Steel (Acorn 1670-1-BP-3-FA).....	2,755.51	259.35
22 46 56 00-0003 EA Wall Mounted Security ADA Drinking Fountain, Stainless Steel (Acorn 1672-1-ADA-BP-3-FA).....	2,775.21	259.35
22 47 Drinking Fountains and Water Coolers <small>(22 40)</small>		
22 47 13 Drinking Fountains <small>(22 47)</small>		
22 47 13 00-0001 Indoor Drinking Fountains <small>(22 47 13)</small>		
22 47 13 00-0002 Face Mounted Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0003 EA Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S).....	1,630.26	210.72
22 47 13 00-0004 EA Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP).....	2,318.64	226.94
22 47 13 00-0005 EA Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E).....	2,101.79	210.72
22 47 13 00-0006 EA Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP).....	2,488.46	226.94
22 47 13 00-0007 EA Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFBS).....	1,140.92	210.72
22 47 13 00-0008 EA Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRFBSBP).....	1,346.83	226.94
22 47 13 00-0009 EA Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFE).....	1,271.37	210.72
22 47 13 00-0010 EA Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFEBP).....	1,523.17	226.94
22 47 13 00-0011 Wall Mounted Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0012 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701).....	1,181.51	226.94
22 47 13 00-0013 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF).....	1,612.09	226.94
22 47 13 00-0014 EA Bi-Level, Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8BLWF).....	2,193.11	226.94
22 47 13 00-0015 Semi-Recessed Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0016 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801).....	1,544.08	243.14
22 47 13 00-0017 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....	3,118.53	243.14
22 47 13 00-0018 Fully Recessed Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0019 EA Stainless Steel Fully-Recessed, With Bubbler, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....	1,651.11	259.35
22 47 13 00-0020 EA Stainless Steel Fully-Recessed, With Bubbler And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403).....	2,859.00	259.35
22 47 13 00-0021 Countertop Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0022 EA Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 10000).....	723.49	162.10
22 47 13 00-0023 EA Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6000).....	700.75	162.10
22 47 13 00-0024 EA Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6028).....	825.36	162.10
22 47 13 00-0025 Bowl And Bracket Indoor Drinking Fountain <small>(22 47 13 00-0001)</small>		
22 47 13 00-0026 EA Stainless Steel, Bowl And Bracket With Pushbutton Bubbler, Indoor Drinking Fountain (Halsey-Taylor 2501A).....	628.89	162.10

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 13 00-0027 EA Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540).....	734.52	162.10
22 47 13 00-0028 Multi-Station Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0029 EA Two Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020).....	2,963.60	259.35
22 47 13 00-0030 EA Three Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030).....	3,680.30	259.35
22 47 13 00-0031 EA Two Station, Marble, Face-Mounted Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120).....	2,835.26	259.35
22 47 13 00-0032 EA Two Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1430).....	2,419.69	259.35
22 47 13 00-0033 EA Three Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1435).....	2,999.99	259.35
22 47 13 00-0034 EA Bi-Level, Stainless Steel, Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4).....	2,688.34	330.83
22 47 13 00-0035 EA Two Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1441).....	4,514.37	259.35
22 47 13 00-0036 EA Three Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1408).....	4,437.38	259.35
22 47 13 00-0037 Outdoor Drinking Fountains (22 47 13)		
22 47 13 00-0038 Face Mounted Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0039 EA Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFE-FR).....	1,464.50	259.35
22 47 13 00-0040 EA Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFEBP-FR).....	1,588.01	259.35
22 47 13 00-0041 EA Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592).....	1,534.38	259.35
22 47 13 00-0042 EA Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592-FR).....	2,166.54	259.35
22 47 13 00-0043 EA Stainless Steel Face Mounted Outdoor Drinking Fountain With Bubbler (Oasis FLF140PM)..... Note: For use with remote chillers	1,313.29	259.35
22 47 13 00-0044 Free Standing Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0045 EA Steel Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715).....	2,607.00	243.14
22 47 13 00-0046 EA Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715-FR).....	3,592.61	243.14
22 47 13 00-0047 EA Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710).....	2,603.72	243.14
22 47 13 00-0048 EA Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710-FR).....	3,529.66	243.14
22 47 13 00-0049 EA Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720).....	3,803.00	259.35
22 47 13 00-0050 EA Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720-FR).....	3,868.81	259.35
22 47 13 00-0051 EA Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4591).....	1,540.94	243.14
22 47 13 00-0052 EA Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590).....	2,535.49	243.14
22 47 13 00-0053 EA Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590-FR).....	3,521.11	243.14
22 47 13 00-0054 EA Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595).....	4,125.58	259.35
22 47 13 00-0055 EA Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595-FR).....	5,716.53	259.35
22 47 16 Pressure Water Coolers (22 47)		
22 47 16 00-0001 Indoor Water Coolers (22 47 16)		
22 47 16 00-0002 Face Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0003 EA Stainless Steel, Semi-Circular Water Cooler With Bubbler, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q).....	2,976.64	259.35
22 47 16 00-0004 EA Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubbler, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q).....	3,165.96	259.35
22 47 16 00-0005 Wall Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0006 EA Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubbler, (Halsey-Taylor SW4A-Q).....	1,510.00	259.35
22 47 16 00-0007 EA Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SW8A-Q).....	1,558.75	259.35
22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SW14A-Q).....	1,711.51	259.35
22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubbler, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS).....	1,770.02	259.35
22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA).....	1,357.24	259.35
22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS).....	1,544.13	259.35
22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS).....	1,252.43	259.35
22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL).....	1,794.66	259.35
22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS).....	2,068.37	389.02
22 47 16 00-0015 Simulated Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q).....	1,766.62	259.35
22 47 16 00-0017 Fully Recessed Indoor Water Coolers (22 47 16 00-0001)		



Plumbing	22
Plumbing Fixtures	22 40
Drinking Fountains and Water Coolers	22 47

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q).....	3,286.82	291.77
22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762).....	3,970.70	291.77
22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700).....	4,613.76	291.77
22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q).....	1,439.46	226.94
22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q).....	1,534.53	226.94
22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q).....	1,720.60	226.94
22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q).....	1,896.93	226.94
22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)		
22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water.....	533.43	129.67
22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water.....	620.75	129.67
22 47 16 00-0029 Multi-Station Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0030 EA Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q).....	3,356.25	389.02
22 47 16 00-0031 EA Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q).....	4,995.15	389.02
22 47 16 00-0032 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS).....	2,220.31	389.02
22 47 16 00-0033 Outdoor Water Coolers (22 47 16)		
22 47 16 00-0034 Wall Mounted Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0035 EA Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS).....	1,492.98	162.10
22 47 16 00-0036 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS).....	2,488.80	162.10
22 47 16 00-0037 Free Standing Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0038 EA Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q).....	2,446.93	243.14
22 47 16 00-0039 EA Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q).....	2,901.95	243.14
22 47 16 00-0040 Removal And Reinstallation Of Fixtures And Trim (22 47 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 47 16 00-0041 EA Removal And Reinstallation Of Wall Hung Water Cooler.....	629.08	
22 47 16 00-0042 EA Removal And Reinstallation Of Floor Mount Water Cooler.....	140.84	
22 47 19 Water-Station Water Coolers (22 47)		
22 47 19 00-0001 Bottle Filler (22 47 19)		
22 47 19 00-0002 EA Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF).....	3,478.57	259.35
<i>For Stainless Steel Carrier, Add</i>		205.00
22 47 19 00-0003 EA Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BF3).....	4,356.86	259.35
<i>For Stainless Steel Carrier, Add</i>		205.00
22 47 19 00-0004 EA Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1).....	5,565.90	291.77
<i>For Stainless Steel Carrier, Add</i>		205.00
22 47 19 00-0005 EA Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2).....	5,998.77	291.77
<i>For Stainless Steel Carrier, Add</i>		205.00
22 47 19 00-0006 EA Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3).....	6,431.63	291.77
<i>For Stainless Steel Carrier, Add</i>		205.00
22 47 23 Remote Water Coolers (22 47)		
22 47 23 00-0001 Remote Chillers (22 47 23)		
22 47 23 00-0002 EA 1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q).....	855.96	87.53
22 47 23 00-0003 EA 5 GPH Remote Chiller (Halsey-Taylor SJ5-Q).....	1,276.82	97.26
22 47 23 00-0004 EA 8 GPH Remote Chiller (Halsey-Taylor SJ8-Q).....	1,117.48	113.46
22 47 23 00-0005 EA 10 GPH Remote Chiller (Halsey-Taylor SJ10-Q).....	1,426.97	129.67
22 47 23 00-0006 EA 19 GPH Remote Chiller (Halsey-Taylor SJ19-Q).....	2,229.45	194.51
22 47 23 00-0007 EA 30 GPH Remote Chiller (Halsey-Taylor SJ30-Q).....	2,417.04	210.72
22 47 26 Fixture Carriers (22 47)		
22 47 26 00-0001 Water Cooler Carriers (22 47 26)		

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 26 00-0002			Floor Mounted, Water Cooler Carriers (22 47 26 00-0001) Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 47 26 00-0003	EA		Floor Mounted Hanger Plate Type, Single Water Cooler Carrier.....	518.36	49.28
			For Up To 4" Extension Sleeves And Hardware, Add	23.63	
			For Bi-Level Carrier, Add	279.17	
22 47 26 00-0004	EA		Floor Mounted Bearing Plate Type, Single Water Cooler Carrier.....	561.12	49.28
			For Up To 4" Extension Sleeves And Hardware, Add	23.63	
			For Bi-Level Carrier, Add	279.17	
22 50 Pool and Fountain Plumbing Systems (22)					
22 51 Swimming Pool Plumbing Systems (22 50)					
22 51 13 Swimming Pool Piping (22 51)					
22 51 13 00-0001			Swimming Pool Gutters (22 51 13)		
22 51 13 00-0002	LF		Swimming Pool Gutters, Stainless.....	301.07	29.18
22 51 19 Swimming Pool Water Treatment Equipment (22 51)					
22 51 19 00-0001			Swimming Pool Heaters (22 51 19) Note: Excludes wiring, external piping, base or pad. Commercial pools.		
22 51 19 00-0002			Electric Pool Heaters (22 51 19 00-0001)		
22 51 19 00-0003	EA		12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool.....	4,727.31	259.35
22 51 19 00-0004	EA		18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool.....	5,279.44	278.80
22 51 19 00-0005	EA		24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool.....	5,870.40	324.19
22 51 19 00-0006	EA		30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool.....	6,228.89	389.02
22 51 19 00-0007	EA		36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool.....	6,889.97	544.64
22 51 19 00-0008	EA		60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool.....	7,946.41	778.05
22 51 19 00-0009			Gas Fired Pool Heaters (22 51 19 00-0001)		
22 51 19 00-0010	EA		120 MBH Output Gas Fired Pool Heater.....	5,930.29	1,164.16
22 51 19 00-0011	EA		180 MBH Output Gas Fired Pool Heater.....	6,741.14	1,330.47
22 51 19 00-0012	EA		240 MBH Output Gas Fired Pool Heater.....	7,613.03	1,496.78
22 51 19 00-0013	EA		300 MBH Output Gas Fired Pool Heater.....	8,827.84	1,829.40
22 51 19 00-0014	EA		360 MBH Output Gas Fired Pool Heater.....	9,113.38	1,927.92
22 51 19 00-0015	EA		400 MBH Output Gas Fired Pool Heater.....	10,482.88	2,267.67
22 51 19 00-0016	EA		500 MBH Output Gas Fired Pool Heater.....	15,987.53	2,616.55
22 51 19 00-0017	EA		600 MBH Output Gas Fired Pool Heater.....	18,456.17	2,878.21
22 51 19 00-0018	EA		750 MBH Output Gas Fired Pool Heater.....	20,756.43	3,139.86
22 51 19 00-0019	EA		1,000 MBH Output Gas Fired Pool Heater.....	26,444.97	3,706.78
22 51 19 00-0020			Surge Tanks (22 51 19) Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump.		
22 51 19 00-0021	EA		1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	14,999.77	950.92
22 51 19 00-0022	EA		1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	16,676.80	950.92
22 51 19 00-0023	EA		2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	20,070.99	1,165.17
22 51 19 00-0024	EA		5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	27,069.32	1,880.47
22 51 19 00-0025			Diatomite Type Filter System (22 51 19)		
22 51 19 00-0026	EA		35,000 Gallon Filter System, Diatomite.....	16,476.51	3,410.76
22 51 19 00-0027	EA		45,000 Gallon Filter System, Diatomite.....	19,650.04	4,092.91
22 51 19 00-0028			Silver Recovery System, X-Ray Film Processing (22 51 19)		
22 51 19 00-0029	EA		20 Gallon/Day Capacity, Silver Recovery System.....	2,246.78	440.14
22 51 19 00-0030	EA		40 Gallon/Day Capacity, Silver Recovery System.....	3,285.56	586.89
22 51 19 00-0031			Inline Water Filter (22 51 19) Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.		
22 51 19 00-0032	EA		2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....	304.82	129.67
22 51 19 00-0033	EA		6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....	538.54	194.51
22 51 19 00-0034			Ultra-Violet Pool Treatment Lights (22 51 19)		
22 51 19 00-0035			Stainless Steel Ultra-Violet Pool Treatment Lights (22 51 19 00-0034) Note: Delta ELP Amalgam Series		
22 51 19 00-0036	EA		3" Flanged, 79 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	12,795.04	404.36
22 51 19 00-0037	EA		3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	13,517.84	404.36
22 51 19 00-0038	EA		3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,137.40	404.36
22 51 19 00-0039	EA		4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,588.95	428.12
22 51 19 00-0040	EA		4" Flanged, 295 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	14,895.98	428.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 19 00-0041 EA 4" Flanged, 329 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	17,683.91	428.12
22 51 19 00-0042 EA 6" Flanged, 396 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	20,987.78	768.91
22 51 19 00-0043 EA 6" Flanged, 440 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	30,963.41	768.91
22 51 19 00-0044 EA 6" Flanged, 650 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	33,960.39	768.91
22 51 19 00-0045 EA 8" Flanged, 695 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	36,460.42	922.45
22 51 19 00-0046 EA 8" Flanged, 920 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	39,129.98	922.45
22 51 19 00-0047 EA 8" Flanged, 1140 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	40,993.65	922.45
22 51 19 00-0048 EA 8" Flanged, 1260 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	43,008.42	922.45
22 51 19 00-0049 EA 10" Flanged, 1510 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	46,220.30	1,048.52
22 51 19 00-0050 EA 10" Flanged, 1760 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	49,746.16	1,048.52
22 51 19 00-0051 EA 10" Flanged, 2010 GPM, 8 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	53,272.00	1,048.52
22 51 19 00-0052 EA 10" Flanged, 2520 GPM, 10 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	57,553.38	1,048.52
22 51 19 00-0053 HDPE Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>		
<i>Note: Delta EL Series</i>		
22 51 19 00-0054 EA 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	6,461.14	404.36
22 51 19 00-0055 EA 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	7,166.28	404.36
22 51 19 00-0056 EA 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	7,907.27	428.12
22 51 19 00-0057 In-Line, Stainless Steel Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0034)</small>		
<i>Note: Delta EM Series</i>		
22 51 19 00-0058 EA 3" Flanged, 100 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	24,594.04	404.36
22 51 19 00-0059 EA 3" Flanged, 170 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	24,845.87	404.36
22 51 19 00-0060 EA 6" Flanged, 300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	26,666.93	768.91
22 51 19 00-0061 EA 6" Flanged, 600 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	33,688.38	768.91
22 51 19 00-0062 EA 8" Flanged, 1300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	46,937.22	922.45
22 51 19 00-0063 EA 10" Flanged, 2000 GPM, 2 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	52,969.79	1,048.52
22 51 19 00-0064 EA 12" Flanged, 3000 GPM, 3 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	62,504.33	1,356.84
22 51 19 00-0065 EA 12" Flanged, 4000 GPM, 4 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	70,059.70	1,356.84

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities (22)

22 63 Gas Systems for Laboratory and Healthcare Facilities (22 60)

22 63 13 Gas Piping for Laboratory and Healthcare Facilities (22 63)

22 63 13 53 Laboratory Gas Piping (22 63 13)

See CSI section 23 21 13 23-0001 for black steel pipe, 23 21 13 23-2177 for PVC piping.

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

22 66 53 Laboratory Chemical-Waste and Vent Piping (22 66)

22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)

22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fusal Fittings (22 66 53 00-0001)

22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)

22 66 53 00-0004 LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe	20.80	7.39
<i>For Schedule 80, Add</i>		
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	5.03	
	4.30	
	3.34	
22 66 53 00-0005 LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	25.61	8.30
<i>For Schedule 80, Add</i>		
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	6.80	
	5.82	
	3.76	
22 66 53 00-0006 LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	41.75	12.06
<i>For Schedule 80, Add</i>		
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	12.28	
	10.51	
	5.44	
22 66 53 00-0007 LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	57.10	15.69
<i>For Schedule 80, Add</i>		
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	17.43	
	14.92	
	7.07	
22 66 53 00-0008 LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	94.99	23.08
<i>For Schedule 80, Add</i>		
<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	31.41	
	26.88	
	10.37	

22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bends (22 66 53 00-0002)

22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	80.83	27.88
<i>For Work In Restricted Working Space, Add</i>		
	12.55	
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fusal 1/4 Bend.....	103.61	36.83
<i>For Work In Restricted Working Space, Add</i>		
	16.55	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0012	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	145.48 18.98	42.14
22 66 53 00-0013	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	214.55 25.10	55.76
22 66 53 00-0014	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	445.19 37.05	82.35
22 66 53 00-0015			Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends <small>(22 66 53 00-0002)</small>		
22 66 53 00-0016	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	80.16 12.55	27.88
22 66 53 00-0017	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	101.85 16.55	36.83
22 66 53 00-0018	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	148.85 18.98	42.14
22 66 53 00-0019	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	180.72 25.10	55.76
22 66 53 00-0020	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	392.76 37.05	82.35
22 66 53 00-0021			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees <small>(22 66 53 00-0002)</small>		
22 66 53 00-0022	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	137.86 26.83	59.65
22 66 53 00-0023	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	170.79 33.83	75.21
22 66 53 00-0024	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	239.59 37.05	82.35
22 66 53 00-0025	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	335.94 48.63	108.15
22 66 53 00-0026	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	605.08 77.81	172.99
22 66 53 00-0027			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees <small>(22 66 53 00-0002)</small>		
22 66 53 00-0028	EA		2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	170.71 33.83	75.21
22 66 53 00-0029	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	231.49 37.05	82.35
22 66 53 00-0030	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	224.28 37.05	82.35
22 66 53 00-0031	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	317.46 48.63	108.15
22 66 53 00-0032	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	324.43 48.63	108.15
22 66 53 00-0033	EA		6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	553.63 77.81	172.99
22 66 53 00-0034			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small>		
22 66 53 00-0035	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	161.51 26.83	59.65
22 66 53 00-0036	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	176.50 33.83	75.21
22 66 53 00-0037	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	257.09 37.05	82.35
22 66 53 00-0038	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	344.01 48.63	108.15
22 66 53 00-0039	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	505.31 77.81	172.99
22 66 53 00-0040			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0041	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	151.14 26.83	59.65
22 66 53 00-0042	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	183.08 33.83	75.21
22 66 53 00-0043	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	246.91 37.05	82.35
22 66 53 00-0044	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	342.01 48.63	108.15
22 66 53 00-0045	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	716.08 77.81	172.99
22 66 53 00-0046			Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047	EA		2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	199.33 33.83	75.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	238.57 37.05	82.35
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	238.57 37.05	82.35
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	334.81 48.63	108.15
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	334.81 48.63	108.15
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	620.47 77.81	172.99
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	626.06 77.81	172.99
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	555.98 77.81	172.99
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 <small>66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross <i>For Work In Restricted Working Space, Add</i>	187.71 33.54	74.56
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	231.91 42.29	94.02
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	336.37 46.31	102.96
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	475.14 60.79	135.12
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	866.15 97.26	216.17
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	133.53 26.83	59.65
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	177.20 33.83	75.21
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	205.96 37.05	82.35
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	290.33 48.63	108.15
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	158.02 33.83	75.21
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	198.24 37.05	82.35
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	201.34 37.05	82.35
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	278.86 48.63	108.15
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	280.81 48.63	108.15
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	159.07 31.12	69.25
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	212.61 40.95	91.03
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	334.98 55.58	123.58
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	487.37 70.73	157.30
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 <small>00-0002)</small>		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	78.99 12.55	27.88
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	93.90 16.55	36.83
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	111.18 18.98	42.14
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	152.73 25.10	55.76
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	226.94 37.05	82.35
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	74.33 12.55	27.88
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	97.43 16.55	36.83

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	117.64 18.98	42.14
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	159.07 25.10	55.76
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	68.53 12.55	27.88
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	87.01 16.55	36.83
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	101.90 18.98	42.14
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	134.76 25.10	55.76
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	197.77 37.05	82.35
22 66 53 00-0093 Glass Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0094 Glass Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 1-1/2" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	25.23 4.28	7.13
22 66 53 00-0096 LF 2" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	30.49 4.67	7.78
22 66 53 00-0097 LF 3" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	42.37 6.56	10.90
22 66 53 00-0098 LF 4" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	65.58 8.49	14.14
22 66 53 00-0099 LF 6" Glass Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	105.44 11.58	19.33
22 66 53 00-0100 Glass Acid Resistant DWV 90 Or 60 Degree Sweeps (22 66 53 00-0093)		
22 66 53 00-0101 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	86.73 19.02	31.77
22 66 53 00-0102 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	96.73 20.19	33.71
22 66 53 00-0103 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	125.00 22.95	38.25
22 66 53 00-0104 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	178.58 30.35	50.57
22 66 53 00-0105 EA 6" Glass Acid Resistant DWV 90 Or 60 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	376.03 42.02	70.02
22 66 53 00-0106 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweeps (22 66 53 00-0093)		
22 66 53 00-0107 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	87.00 19.10	31.90
22 66 53 00-0108 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	96.21 20.03	33.33
22 66 53 00-0109 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	124.73 22.87	38.13
22 66 53 00-0110 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	178.58 30.35	50.57
22 66 53 00-0111 EA 6" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep <i>For Work In Restricted Working Space, Add</i>	376.01 42.01	70.02
22 66 53 00-0112 Glass Acid Resistant DWV 90 Or 60 Degree Bends (22 66 53 00-0093)		
22 66 53 00-0113 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	87.64 19.10	31.90
22 66 53 00-0114 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	96.98 20.03	33.33
22 66 53 00-0115 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	126.07 22.87	38.13
22 66 53 00-0116 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Bend <i>For Work In Restricted Working Space, Add</i>	178.58 30.35	50.57
22 66 53 00-0117 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bends (22 66 53 00-0093)		
22 66 53 00-0118 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend <i>For Work In Restricted Working Space, Add</i>	87.64 19.10	31.90
22 66 53 00-0119 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend <i>For Work In Restricted Working Space, Add</i>	96.98 20.03	33.33
22 66 53 00-0120 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend <i>For Work In Restricted Working Space, Add</i>	126.07 22.87	38.13
22 66 53 00-0121 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend <i>For Work In Restricted Working Space, Add</i>	178.58 30.35	50.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0122 Glass Acid Resistant DWV 90 Degree Bends With Long Leg (22 66 53 00-0093)		
22 66 53 00-0123 EA 1-1/2" Glass Acid Resistant DWV 90 Degree Bend With Long Leg.....	96.73	31.90
For Work In Restricted Working Space, Add	19.10	
22 66 53 00-0124 EA 2" Glass Acid Resistant DWV 90 Degree Bends With Long Leg	110.04	33.33
For Work In Restricted Working Space, Add	20.03	
22 66 53 00-0125 Glass Acid Resistant DWV Double Quarter Bends (22 66 53 00-0093)		
22 66 53 00-0126 EA 1-1/2" Glass Acid Resistant DWV Double Quarter Bend	137.19	47.72
For Work In Restricted Working Space, Add	28.65	
22 66 53 00-0127 EA 2" x 1-1/2" Glass Acid Resistant DWV Double Quarter Bend	161.89	49.41
For Work In Restricted Working Space, Add	29.64	
22 66 53 00-0128 EA 2" Glass Acid Resistant DWV Double Quarter Bend	154.86	50.05
For Work In Restricted Working Space, Add	30.05	
22 66 53 00-0129 EA 3" Glass Acid Resistant DWV Double Quarter Bend	199.14	57.18
For Work In Restricted Working Space, Add	34.32	
22 66 53 00-0130 EA 4" Glass Acid Resistant DWV Double Quarter Bend	310.18	75.86
For Work In Restricted Working Space, Add	45.51	
22 66 53 00-0131 EA 6" Glass Acid Resistant DWV Double Quarter Bend	464.49	105.03
For Work In Restricted Working Space, Add	63.03	
22 66 53 00-0132 Glass Acid Resistant DWV Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0133 EA 1-1/2" Glass Acid Resistant DWV Sanitary Tee	133.56	47.98
For Work In Restricted Working Space, Add	28.79	
22 66 53 00-0134 EA 2" Glass Acid Resistant DWV Sanitary Tee	137.45	49.92
For Work In Restricted Working Space, Add	29.96	
22 66 53 00-0135 EA 3" Glass Acid Resistant DWV Sanitary Tee	170.20	57.05
For Work In Restricted Working Space, Add	34.24	
22 66 53 00-0136 EA 4" Glass Acid Resistant DWV Sanitary Tee	252.33	75.86
For Work In Restricted Working Space, Add	45.51	
22 66 53 00-0137 EA 6" Glass Acid Resistant DWV Sanitary Tee	479.62	105.03
For Work In Restricted Working Space, Add	63.02	
22 66 53 00-0138 Glass Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0139 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	136.15	49.28
For Work In Restricted Working Space, Add	29.57	
22 66 53 00-0140 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	157.21	53.81
For Work In Restricted Working Space, Add	32.29	
22 66 53 00-0141 EA 3" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	164.96	55.11
For Work In Restricted Working Space, Add	33.07	
22 66 53 00-0142 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	208.56	66.78
For Work In Restricted Working Space, Add	40.07	
22 66 53 00-0143 EA 4" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	216.04	67.44
For Work In Restricted Working Space, Add	40.46	
22 66 53 00-0144 EA 4" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee.....	225.49	69.38
For Work In Restricted Working Space, Add	41.63	
22 66 53 00-0145 EA 6" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee.....	362.98	86.88
For Work In Restricted Working Space, Add	52.13	
22 66 53 00-0146 EA 6" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee.....	386.61	88.82
For Work In Restricted Working Space, Add	53.30	
22 66 53 00-0147 EA 6" x 4" Glass Acid Resistant DWV Reducing Sanitary Tee.....	400.66	95.31
For Work In Restricted Working Space, Add	57.19	
22 66 53 00-0148 Glass Acid Resistant DWV Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0149 EA 1-1/2" Glass Acid Resistant DWV Double Sanitary Tee	184.76	63.54
For Work In Restricted Working Space, Add	38.13	
22 66 53 00-0150 EA 2" Glass Acid Resistant DWV Double Sanitary Tee.....	191.22	66.78
For Work In Restricted Working Space, Add	40.07	
22 66 53 00-0151 EA 3" Glass Acid Resistant DWV Double Sanitary Tee.....	237.76	76.51
For Work In Restricted Working Space, Add	45.90	
22 66 53 00-0152 EA 4" Glass Acid Resistant DWV Double Sanitary Tee.....	364.70	101.15
For Work In Restricted Working Space, Add	60.68	
22 66 53 00-0153 EA 6" Glass Acid Resistant DWV Double Sanitary Tee.....	611.37	140.05
For Work In Restricted Working Space, Add	84.04	
22 66 53 00-0154 Glass Acid Resistant DWV Reducing Double Sanitary Tees (22 66 53 00-0093)		
22 66 53 00-0155 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee	188.63	65.48
For Work In Restricted Working Space, Add	39.29	
22 66 53 00-0156 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee	212.38	70.02
For Work In Restricted Working Space, Add	42.02	
22 66 53 00-0157 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee	221.80	71.32
For Work In Restricted Working Space, Add	42.80	
22 66 53 00-0158 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee	301.90	82.35
For Work In Restricted Working Space, Add	49.41	
22 66 53 00-0159 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee	301.68	84.29
For Work In Restricted Working Space, Add	50.57	
22 66 53 00-0160 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee	322.22	88.82
For Work In Restricted Working Space, Add	53.31	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0161	EA		6" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	413.46 62.23	103.74
22 66 53 00-0162	EA		6" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	445.19 64.96	108.28
22 66 53 00-0163	EA		6" x 4" Glass Acid Resistant DWV Reducing Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	502.24 72.35	120.60
22 66 53 00-0164			Glass Acid Resistant DWV Tees (22 66 53 00-0093)		
22 66 53 00-0165	EA		1-1/2" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	142.49 28.79	47.98
22 66 53 00-0166	EA		2" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	146.36 29.95	49.92
22 66 53 00-0167	EA		3" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	181.28 34.23	57.05
22 66 53 00-0168	EA		4" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	269.72 45.51	75.86
22 66 53 00-0169	EA		6" Glass Acid Resistant DWV Tee..... <i>For Work In Restricted Working Space, Add</i>	500.49 63.03	105.03
22 66 53 00-0170			Glass Acid Resistant DWV Reducing Tees (22 66 53 00-0093)		
22 66 53 00-0171	EA		2" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	145.05 29.56	49.28
22 66 53 00-0172	EA		3" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	166.51 32.29	53.81
22 66 53 00-0173	EA		3" x 2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	170.45 33.07	55.11
22 66 53 00-0174	EA		4" x 1-1/2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	210.61 40.07	66.78
22 66 53 00-0175	EA		4" x 2" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	215.08 40.46	67.44
22 66 53 00-0176	EA		4" x 3" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	246.41 41.63	69.38
22 66 53 00-0177	EA		6" x 3" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	424.83 53.29	88.82
22 66 53 00-0178	EA		6" x 4" Glass Acid Resistant DWV Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	445.36 57.18	95.31
22 66 53 00-0179			Glass Acid Resistant DWV Test Tees With Cleanout (22 66 53 00-0093)		
22 66 53 00-0180	EA		1-1/2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	157.78 28.79	47.98
22 66 53 00-0181	EA		2" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	172.29 29.95	49.92
22 66 53 00-0182	EA		3" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	213.97 34.23	57.05
22 66 53 00-0183	EA		4" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	344.21 45.51	75.86
22 66 53 00-0184	EA		6" Glass Acid Resistant DWV Test Tee With Cleanout..... <i>For Work In Restricted Working Space, Add</i>	500.49 63.03	105.03
22 66 53 00-0185			Glass Acid Resistant DWV Wyes (22 66 53 00-0093)		
22 66 53 00-0186	EA		1-1/2" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	135.48 28.79	47.98
22 66 53 00-0187	EA		2" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	139.35 29.95	49.92
22 66 53 00-0188	EA		3" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	177.83 34.23	57.05
22 66 53 00-0189	EA		4" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	260.86 45.51	75.86
22 66 53 00-0190	EA		6" Glass Acid Resistant DWV Wye..... <i>For Work In Restricted Working Space, Add</i>	473.79 63.03	105.03
22 66 53 00-0191			Glass Acid Resistant DWV Reducing Wyes (22 66 53 00-0093)		
22 66 53 00-0192	EA		2" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	138.04 29.56	49.28
22 66 53 00-0193	EA		3" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	161.16 32.29	53.81
22 66 53 00-0194	EA		3" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	165.42 33.07	55.11
22 66 53 00-0195	EA		4" x 1-1/2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	216.22 40.07	66.78
22 66 53 00-0196	EA		4" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	218.27 40.46	67.44
22 66 53 00-0197	EA		4" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	233.03 41.63	69.38
22 66 53 00-0198	EA		6" x 2" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	354.65 52.12	86.88
22 66 53 00-0199	EA		6" x 3" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	398.32 53.29	88.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0200 EA 6" x 4" Glass Acid Resistant DWV Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	431.60 57.18	95.31
22 66 53 00-0201 Glass Acid Resistant DWV Double Wyes <small>(22 66 53 00-0093)</small>		
22 66 53 00-0202 EA 1-1/2" Glass Acid Resistant DWV Double Wye <i>For Work In Restricted Working Space, Add</i>	204.00 38.12	63.54
22 66 53 00-0203 EA 2" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	210.49 40.07	66.78
22 66 53 00-0204 EA 3" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	267.63 45.90	76.51
22 66 53 00-0205 EA 4" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	395.20 60.67	101.15
22 66 53 00-0206 EA 6" Glass Acid Resistant DWV Double Wye..... <i>For Work In Restricted Working Space, Add</i>	627.91 84.06	140.05
22 66 53 00-0207 Glass Acid Resistant DWV Reducing Double Wyes <small>(22 66 53 00-0093)</small>		
22 66 53 00-0208 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	207.85 39.28	65.48
22 66 53 00-0209 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	216.96 42.01	70.02
22 66 53 00-0210 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	240.45 42.79	71.32
22 66 53 00-0211 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye <i>For Work In Restricted Working Space, Add</i>	289.95 49.42	82.35
22 66 53 00-0212 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	303.23 50.57	84.29
22 66 53 00-0213 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	345.55 53.29	88.82
22 66 53 00-0214 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	498.28 62.23	103.74
22 66 53 00-0215 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	522.37 64.97	108.28
22 66 53 00-0216 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Wye..... <i>For Work In Restricted Working Space, Add</i>	563.66 72.36	120.60
22 66 53 00-0217 Glass Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0218 EA 1-1/2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	145.57 28.79	47.98
22 66 53 00-0219 EA 2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	149.86 29.95	49.92
22 66 53 00-0220 EA 3" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	184.08 34.23	57.05
22 66 53 00-0221 EA 4" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	264.11 45.51	75.86
22 66 53 00-0222 EA 6" Glass Acid Resistant DWV Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	464.68 63.03	105.03
22 66 53 00-0223 Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0224 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	148.55 29.56	49.28
22 66 53 00-0225 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	162.75 32.29	53.81
22 66 53 00-0226 EA 3" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	171.79 33.07	55.11
22 66 53 00-0227 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	212.40 40.07	66.78
22 66 53 00-0228 EA 4" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	219.09 40.46	67.44
22 66 53 00-0229 EA 4" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	233.98 41.63	69.38
22 66 53 00-0230 EA 6" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	355.23 52.12	86.88
22 66 53 00-0231 EA 6" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	392.77 53.29	88.82
22 66 53 00-0232 EA 6" x 4" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	406.11 57.18	95.31
22 66 53 00-0233 Glass Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0234 EA 1-1/2" Double Glass Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	194.44 38.12	63.54
22 66 53 00-0235 EA 2" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	218.51 40.07	66.78
22 66 53 00-0236 EA 3" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	279.74 45.90	76.51
22 66 53 00-0237 EA 4" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	423.36 60.67	101.15

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0238 EA 6" Double Glass Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	672.86 84.06	140.05
22 66 53 00-0239 Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0093)</small>		
22 66 53 00-0240 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	199.75 39.28	65.48
22 66 53 00-0241 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	239.51 42.01	70.02
22 66 53 00-0242 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	238.41 42.79	71.32
22 66 53 00-0243 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	305.62 49.42	82.35
22 66 53 00-0244 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	305.71 50.57	84.29
22 66 53 00-0245 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	336.70 53.29	88.82
22 66 53 00-0246 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	457.22 62.23	103.74
22 66 53 00-0247 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	484.78 64.97	108.28
22 66 53 00-0248 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	559.20 72.36	120.60
22 66 53 00-0249 Glass Acid Resistant DWV Partition Crosses (Compact) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0250 EA 2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)..... <i>For Work In Restricted Working Space, Add</i>	212.50 39.28	65.48
22 66 53 00-0251 EA 2" Glass Acid Resistant DWV Partition Cross (Compact)..... <i>For Work In Restricted Working Space, Add</i>	215.14 40.07	66.78
22 66 53 00-0252 EA 2" x 1-1/2" x 1-1/2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact)..... <i>For Work In Restricted Working Space, Add</i>	223.09 38.90	64.84
22 66 53 00-0253 Glass Acid Resistant DWV Upright Y Or H (Vent Branch) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0254 EA 1-1/2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	191.17 28.79	47.98
22 66 53 00-0255 EA 2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	207.47 29.95	49.92
22 66 53 00-0256 EA 3" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	238.31 34.23	57.05
22 66 53 00-0257 EA 4" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	341.22 45.51	75.86
22 66 53 00-0258 EA 6" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	600.54 63.03	105.03
22 66 53 00-0259 Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch) <small>(22 66 53 00-0093)</small>		
22 66 53 00-0260 EA 2" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	193.35 29.56	49.28
22 66 53 00-0261 EA 3" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	218.13 32.29	53.81
22 66 53 00-0262 EA 3" x 2" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	229.97 33.07	55.11
22 66 53 00-0263 EA 4" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	269.75 40.07	66.78
22 66 53 00-0264 EA 4" x 2" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	282.05 40.46	67.44
22 66 53 00-0265 EA 4" x 3" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	304.85 41.63	69.38
22 66 53 00-0266 EA 6" x 3" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	427.44 53.29	88.82
22 66 53 00-0267 EA 6" x 4" Reducing Glass Upright Y Or H (Vent Branch)..... <i>For Work In Restricted Working Space, Add</i>	480.66 57.18	95.31
22 66 53 00-0268 Glass Acid Resistant DWV Reducers Or Increases <small>(22 66 53 00-0093)</small>		
22 66 53 00-0269 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increases, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.23 1.63 19.45	32.42
22 66 53 00-0270 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increases, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.29 2.42 21.01	35.01
22 66 53 00-0271 EA 3" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increases, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.22 2.71 21.40	35.66
22 66 53 00-0272 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increases, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.34 3.79 24.90	41.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0273 EA 4" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.57 4.02 25.29	42.14
22 66 53 00-0274 EA 4" x 3" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.54 4.35 26.45	44.09
22 66 53 00-0275 EA 6" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.09 11.01 30.74	51.22
22 66 53 00-0276 EA 6" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.12 11.71 31.12	51.87
22 66 53 00-0277 EA 6" x 3" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.01 12.51 32.29	53.81
22 66 53 00-0278 EA 6" x 4" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	281.50 12.87 36.18	60.30
22 66 53 00-0279 Glass Acid Resistant DWV Swivel P-Traps (22 66 53 00-0093)		
22 66 53 00-0280 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	167.71 28.79	47.98
22 66 53 00-0281 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	177.12 29.57	49.28
22 66 53 00-0282 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	192.76 29.96	49.92
22 66 53 00-0283 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	177.02 28.79	47.98
22 66 53 00-0284 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	188.97 29.57	49.28
22 66 53 00-0285 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	206.14 29.96	49.92
22 66 53 00-0286 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	179.57 28.79	47.98
22 66 53 00-0287 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	188.97 29.57	49.28
22 66 53 00-0288 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	206.14 29.96	49.92
22 66 53 00-0289 Glass Acid Resistant DWV Drum P-Traps (22 66 53 00-0093)		
22 66 53 00-0290 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	208.50 28.79	47.98
22 66 53 00-0291 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	249.58 29.57	49.28
22 66 53 00-0292 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	255.97 29.96	49.92
22 66 53 00-0293 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	223.98 28.79	47.98
22 66 53 00-0294 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	235.62 29.57	49.28
22 66 53 00-0295 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	258.97 29.96	49.92
22 66 53 00-0296 Glass Acid Resistant DWV Cleanout Plugs (22 66 53 00-0093)		
22 66 53 00-0297 EA 1-1/2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	41.91 9.73	16.21
22 66 53 00-0298 EA 2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	45.69 10.11	16.86
22 66 53 00-0299 EA 3" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	54.75 11.28	18.80
22 66 53 00-0300 EA 4" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	81.41 15.17	25.28
22 66 53 00-0301 EA 6" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	115.07 21.01	35.01
22 66 53 00-0302 Glass Acid Resistant DWV Sink Fittings (22 66 53 00-0093)		
22 66 53 00-0303 EA 1-1/2" Glass Acid Resistant DWV Interceptor Trap..... <i>For Work In Restricted Working Space, Add</i>	399.25 38.12	63.54
22 66 53 00-0304 EA 1-1/2" x 6-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	50.07 9.73	16.21
22 66 53 00-0305 EA 1-1/2" x 10-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	53.45 9.73	16.21
22 66 53 00-0306 EA 1-1/2" Split Coupling (Threaded To Beaded Pipe) For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	85.74 19.45	32.42
22 66 53 00-0307 EA 3" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	137.22 20.23	33.71
22 66 53 00-0308 EA 6" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	138.49 20.23	33.71

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0309 EA 3" x 9" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	151.24 20.23	33.71
22 66 53 00-0310 EA 3" x 6" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	130.34 20.23	33.71
22 66 53 00-0311 Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapters (22 66 53 00-0093) Note: Includes teflon spacer.		
22 66 53 00-0312 EA 1-1/2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	142.97 28.71	47.85
22 66 53 00-0313 EA 2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	149.49 30.11	50.18
22 66 53 00-0314 EA 3" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	192.77 34.32	57.18
22 66 53 00-0315 EA 4" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	268.52 45.55	75.99
22 66 53 00-0316 Bead To Bead Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Includes segmented stainless steel outer band, Buna-N rubber compression liner with TFE seal ring, stainless steel bolt and silver plated stainless hex nut.		
22 66 53 00-0317 EA 1-1/2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	15.99	
22 66 53 00-0318 EA 2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	20.18	
22 66 53 00-0319 EA 3" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	26.98	
22 66 53 00-0320 EA 4" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	45.46	
22 66 53 00-0321 EA 6" Bead To Bead, Stainless Steel, TFE Seal Ring Couplings, Glass Piping.....	105.89	
22 66 53 00-0322 Bead To Plain End Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Includes stainless steel band with bolt, Buna-N rubber compression liner with TFE seal ring and silver plated stainless hex nut.		
22 66 53 00-0323 EA 1-1/2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	20.63	
22 66 53 00-0324 EA 2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	25.81	
22 66 53 00-0325 EA 3" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	43.82	
22 66 53 00-0326 EA 4" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	65.32	
22 66 53 00-0327 EA 6" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	159.26	
22 66 53 00-0328 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.		
22 66 53 00-0329 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0328)		
22 66 53 00-0330 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	113.41	11.54
22 66 53 00-0331 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	159.25	14.40
22 66 53 00-0332 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	216.10	16.60
22 66 53 00-0333 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	351.78	21.90
22 66 53 00-0334 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	620.01	29.58
22 66 53 00-0335 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	1,094.55	37.30
22 66 53 00-0336 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	1,949.67	50.25
22 66 53 00-0337 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	3,468.52	57.61
22 66 53 00-0338 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0328)		
22 66 53 00-0339 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0338)		
22 66 53 00-0340 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	463.74	98.29
22 66 53 00-0341 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	602.12	108.15
22 66 53 00-0342 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	968.71	129.42
22 66 53 00-0343 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,420.60	144.67
22 66 53 00-0344 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	3,255.77	237.70
22 66 53 00-0345 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0338)		
22 66 53 00-0346 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	278.27	98.29
22 66 53 00-0347 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	358.47	108.15
22 66 53 00-0348 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	448.69	129.42
22 66 53 00-0349 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,133.32	144.67
22 66 53 00-0350 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,563.75	237.70
22 66 53 00-0351 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,885.48	296.15
22 66 53 00-0352 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	5,696.03	356.13
22 66 53 00-0353 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0338)		
22 66 53 00-0354 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	278.27	98.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0355 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	358.47	108.15
22 66 53 00-0356 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	448.69	129.42
22 66 53 00-0357 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	835.13	144.67
22 66 53 00-0358 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,178.28	237.70
22 66 53 00-0359 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,176.91	296.15
22 66 53 00-0360 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	4,496.53	356.13
22 66 53 00-0361 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0338)		
22 66 53 00-0362 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	278.27	98.29
22 66 53 00-0363 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	358.47	108.15
22 66 53 00-0364 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	448.37	129.29
22 66 53 00-0365 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0338)		
22 66 53 00-0366 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	372.82	98.29
22 66 53 00-0367 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	645.76	108.15
22 66 53 00-0368 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	725.06	129.42
22 66 53 00-0369 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0338)		
22 66 53 00-0370 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	395.09	147.06
22 66 53 00-0371 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	491.67	163.00
22 66 53 00-0372 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	677.32	194.64
22 66 53 00-0373 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,089.63	217.41
22 66 53 00-0374 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,302.42	356.85
22 66 53 00-0375 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	4,680.82	445.59
22 66 53 00-0376 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0338)		
22 66 53 00-0377 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	371.38	140.96
22 66 53 00-0378 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	430.57	151.33
22 66 53 00-0379 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	478.49	156.64
22 66 53 00-0380 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	546.63	172.99
22 66 53 00-0381 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	583.99	178.43
22 66 53 00-0382 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	639.04	183.75
22 66 53 00-0383 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	773.61	188.13
22 66 53 00-0384 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	856.65	192.98
22 66 53 00-0385 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	957.21	201.85
22 66 53 00-0386 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0338)		
22 66 53 00-0387 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	445.92	147.06
22 66 53 00-0388 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	534.67	162.61
22 66 53 00-0389 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	724.54	194.64
22 66 53 00-0390 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0338)		
22 66 53 00-0391 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	422.25	140.96
22 66 53 00-0392 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	523.22	157.43
22 66 53 00-0393 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	628.38	178.95
22 66 53 00-0394 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	672.59	184.27
22 66 53 00-0395 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0338)		
22 66 53 00-0396 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	391.72	147.31
22 66 53 00-0397 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	531.67	163.00
22 66 53 00-0398 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	677.09	194.51
22 66 53 00-0399 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,095.65	216.61
22 66 53 00-0400 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	4,123.72	356.50
22 66 53 00-0401 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0338)		
22 66 53 00-0402 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	400.43	140.96
22 66 53 00-0403 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	430.51	151.33
22 66 53 00-0404 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	454.41	157.56
22 66 53 00-0405 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	506.63	172.99
22 66 53 00-0406 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	526.11	178.70
22 66 53 00-0407 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	625.31	184.27
22 66 53 00-0408 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	813.36	188.36
22 66 53 00-0409 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	962.11	192.98
22 66 53 00-0410 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,004.49	201.85
22 66 53 00-0411 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,434.93	287.59
22 66 53 00-0412 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,627.35	297.10
22 66 53 00-0413 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,206.44	312.30

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 66 53 00-0414		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0415	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	460.40	147.06
22 66 53 00-0416	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	545.58	162.61
22 66 53 00-0417	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	797.27	194.64
22 66 53 00-0418	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	1,190.61	216.84
22 66 53 00-0419		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0338)</small>		
22 66 53 00-0420	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	385.88	140.96
22 66 53 00-0421	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	445.06	151.33
22 66 53 00-0422	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	490.49	157.43
22 66 53 00-0423	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	532.09	172.99
22 66 53 00-0424	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	610.20	178.95
22 66 53 00-0425	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	687.06	184.14
22 66 53 00-0426	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	860.55	188.36
22 66 53 00-0427	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	1,067.65	193.09
22 66 53 00-0428	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	1,168.63	202.20
22 66 53 00-0429		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0338)</small>		
22 66 53 00-0430	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	240.60	92.59
22 66 53 00-0431	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	262.90	97.78
22 66 53 00-0432	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	292.52	102.96
22 66 53 00-0433	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	458.45	114.12
22 66 53 00-0434	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	480.79	119.43
22 66 53 00-0435	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	508.29	120.70
22 66 53 00-0436	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	656.65	129.92
22 66 53 00-0437	EA	8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	954.55	178.31
22 66 53 00-0438	EA	8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,017.21	193.40
22 66 53 00-0439		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0338)</small>		
22 66 53 00-0440	EA	2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	636.93	216.17
22 66 53 00-0441	EA	2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	826.03	216.17
22 66 53 00-0442	EA	3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	843.00	216.17
22 66 53 00-0443	EA	4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	930.77	269.17
22 66 53 00-0444		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0338)</small>		
22 66 53 00-0445	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	678.29	98.29
22 66 53 00-0446	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	816.67	108.15
22 66 53 00-0447	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	994.16	129.42
22 66 53 00-0448	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	2,867.93	144.67
22 66 53 00-0449		Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0338)</small>		
22 66 53 00-0450	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	347.37	98.29
22 66 53 00-0451	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	434.84	108.15
22 66 53 00-0452	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	594.14	129.42
22 66 53 00-0453	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	747.24	144.67
22 66 53 00-0454	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,444.55	201.85
22 66 53 00-0455		Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0328)</small>		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.				
22 66 53 00-0456	LB	Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	5.38	
22 66 53 00-0457	LB	Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	66.67	
22 66 53 00-0458		Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>		
Note: ASTM A518.				
22 66 53 00-0459		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0458)</small>		
22 66 53 00-0460	LF	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	89.88	8.69
22 66 53 00-0461	LF	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	102.23	9.60
22 66 53 00-0462	LF	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	140.77	12.06
22 66 53 00-0463	LF	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	177.29	14.00



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0464				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0458)</small>		
22 66 53 00-0465				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0464)</small>		
22 66 53 00-0466	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	339.64	68.85
22 66 53 00-0467	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	367.62	77.81
22 66 53 00-0468	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	499.56	85.85
22 66 53 00-0469	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	602.91	103.74
22 66 53 00-0470				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0471	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	197.82	68.85
22 66 53 00-0472	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	235.51	77.02
22 66 53 00-0473	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	300.00	86.11
22 66 53 00-0474	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	390.82	102.96
22 66 53 00-0475	EA			2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	229.09	72.75
22 66 53 00-0476				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0477	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	197.82	68.85
22 66 53 00-0478	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	235.51	77.02
22 66 53 00-0479	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	300.00	86.11
22 66 53 00-0480	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	390.82	102.96
22 66 53 00-0481				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0482	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	230.55	68.85
22 66 53 00-0483	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	286.41	77.02
22 66 53 00-0484	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	434.56	86.11
22 66 53 00-0485	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	489.01	102.96
22 66 53 00-0486				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0487	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	223.28	68.85
22 66 53 00-0488	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	264.60	77.02
22 66 53 00-0489	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	401.83	86.11
22 66 53 00-0490	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	456.28	102.96
22 66 53 00-0491				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0492	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	337.18	103.61
22 66 53 00-0493				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0464)</small>		
22 66 53 00-0494	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	278.99	103.61
22 66 53 00-0495	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	342.25	116.71
22 66 53 00-0496	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	445.92	130.06
22 66 53 00-0497	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	666.15	155.74
22 66 53 00-0498				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0464)</small>		
22 66 53 00-0499	EA			2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	321.12	112.30
22 66 53 00-0500	EA			3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	388.79	121.12
22 66 53 00-0501	EA			3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	413.39	125.39
22 66 53 00-0502	EA			4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	443.75	138.36
22 66 53 00-0503	EA			4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	486.06	142.26
22 66 53 00-0504	EA			4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	525.26	146.53
22 66 53 00-0505				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0464)</small>		
22 66 53 00-0506	EA			1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	279.50	104.00
22 66 53 00-0507	EA			2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	327.70	116.71
22 66 53 00-0508	EA			3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	431.37	130.06
22 66 53 00-0509	EA			4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	666.15	155.74
22 66 53 00-0510				Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0464)</small>		
22 66 53 00-0511	EA			2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	311.07	112.95
22 66 53 00-0512	EA			3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	377.85	120.99
22 66 53 00-0513	EA			3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	395.78	125.79
22 66 53 00-0514	EA			4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	444.37	138.76
22 66 53 00-0515	EA			4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	487.23	143.03

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0516 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	514.89	146.92
22 66 53 00-0517 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0464)</small>		
22 66 53 00-0518 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	414.92	138.49
22 66 53 00-0519 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	524.52	155.87
22 66 53 00-0520 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	665.82	172.47
22 66 53 00-0521 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	863.63	207.35
22 66 53 00-0522 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	456.32	146.66
22 66 53 00-0523 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	509.26	155.36
22 66 53 00-0524 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	602.22	163.91
22 66 53 00-0525 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	664.85	181.54
22 66 53 00-0526 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	795.01	190.75
22 66 53 00-0527 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0464)</small>		
22 66 53 00-0528 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	458.48	138.49
22 66 53 00-0529 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	538.76	155.61
22 66 53 00-0530 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	761.83	173.37
22 66 53 00-0531 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,056.69	207.61
22 66 53 00-0532 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	492.61	146.66
22 66 53 00-0533 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	636.49	155.36
22 66 53 00-0534 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	671.22	163.91
22 66 53 00-0535 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	719.33	181.41
22 66 53 00-0536 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	906.74	189.97
22 66 53 00-0537 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0538 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	307.56	103.22
22 66 53 00-0539 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	356.80	116.71
22 66 53 00-0540 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	431.37	130.06
22 66 53 00-0541 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	706.15	155.74
22 66 53 00-0542 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0543 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	339.40	112.43
22 66 53 00-0544 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	378.37	121.38
22 66 53 00-0545 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	410.33	125.79
22 66 53 00-0546 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	549.83	138.76
22 66 53 00-0547 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	563.59	143.03
22 66 53 00-0548 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	627.62	146.92
22 66 53 00-0549 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0550 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	483.64	138.23
22 66 53 00-0551 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	604.10	155.48
22 66 53 00-0552 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	859.08	172.86
22 66 53 00-0553 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,031.90	208.00
22 66 53 00-0554 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0555 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	525.34	146.66
22 66 53 00-0556 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	625.55	155.22
22 66 53 00-0557 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	653.04	163.91
22 66 53 00-0558 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	726.60	181.41
22 66 53 00-0559 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	906.74	189.97
22 66 53 00-0560 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0464)</small>		
22 66 53 00-0561 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	230.18	73.52
22 66 53 00-0562 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	258.47	77.81
22 66 53 00-0563 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	303.37	90.78
22 66 53 00-0564 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	354.75	86.24
22 66 53 00-0565 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	375.76	90.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0566 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	396.78	94.79
22 66 53 00-0567 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees <small>(22 66 53 00-0464)</small>		
22 66 53 00-0568 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee.....	210.78	60.55
22 66 53 00-0569 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	244.48	68.47
22 66 53 00-0570 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	287.09	77.55
22 66 53 00-0571 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	512.50	94.41
22 66 53 00-0572 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs <small>(22 66 53 00-0464)</small>		
22 66 53 00-0573 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	95.28	34.50
22 66 53 00-0574 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	112.30	38.51
22 66 53 00-0575 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	122.73	43.05
22 66 53 00-0576 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug.....	157.22	51.48
22 66 53 00-0577 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0464)</small>		
22 66 53 00-0578 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	375.40	68.47
22 66 53 00-0579 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	388.24	77.02
22 66 53 00-0580 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	478.19	86.11
22 66 53 00-0581 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	609.01	102.96
22 66 53 00-0582 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	517.62	73.65
22 66 53 00-0583 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	708.79	82.21
22 66 53 00-0584 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	856.08	90.78
22 66 53 00-0585 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap.....	1,063.92	108.15
22 66 53 00-0586 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps <small>(22 66 53 00-0464)</small>		
22 66 53 00-0587 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	688.11	78.19
22 66 53 00-0588 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap.....	1,078.81	86.49
22 66 53 00-0589 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	716.73	77.81
22 66 53 00-0590 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap.....	1,078.81	86.49
22 66 53 00-0591 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps <small>(22 66 53 00-0464)</small>		
22 66 53 00-0592 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	640.37	77.81
22 66 53 00-0593 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	751.52	86.49
22 66 53 00-0594 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap.....	738.55	77.81
22 66 53 00-0595 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	1,606.10	86.49
22 66 53 00-0596 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap.....	962.44	86.49
22 66 53 00-0597 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends <small>(22 66 53 00-0464)</small>		
22 66 53 00-0598 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	274.65	69.25
22 66 53 00-0599 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend.....	356.71	77.81
22 66 53 00-0600 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters <small>(22 66 53 00-0464)</small>		
22 66 53 00-0601 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter.....	143.27	51.87
22 66 53 00-0602 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	255.20	56.28
22 66 53 00-0603 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	191.81	64.84
22 66 53 00-0604 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter <small>(22 66 53 00-0464)</small>		
22 66 53 00-0605 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	263.42	73.78
22 66 53 00-0606 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	287.56	77.81
22 66 53 00-0607 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	319.50	82.08
22 66 53 00-0608 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	343.03	90.51
22 66 53 00-0609 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	319.56	82.21
22 66 53 00-0610 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	336.89	86.49
22 66 53 00-0611 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	364.05	94.79
22 66 53 00-0612 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	408.90	90.78
22 66 53 00-0613 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	503.93	108.15
22 66 53 00-0614 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0464)</small>		
22 66 53 00-0615 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	87.28	
22 66 53 00-0616 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting.....	101.82	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0617 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	109.09	
22 66 53 00-0618 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	120.01	
22 66 53 00-0619 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings <small>(22 66 53 00-0464)</small>		
22 66 53 00-0620 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	651.89	34.62
22 66 53 00-0621 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	247.77	17.24
22 66 53 00-0622 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow	458.68	17.24
22 66 53 00-0623 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates <small>(22 66 53 00-0464)</small>		
22 66 53 00-0624 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer	2,346.70	172.99
22 66 53 00-0625 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer	2,890.59	181.67
22 66 53 00-0626 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	1,924.18	17.24
22 66 83 Chemical-Waste Tanks <small>(22 66)</small>		
22 66 83 16 Chemical-Waste Neutralization Tanks <small>(22 66 83)</small>		
22 66 83 16-0001 Acid Neutralization Tank <small>(22 66 83 16)</small>		
22 66 83 16-0002 Polyethylene Acid Neutralization Tank <small>(22 66 83 16-0001)</small>		
22 66 83 16-0003 EA 5 Gallon Capacity Polyethylene Acid Neutralization Tank	539.18	264.09
22 66 83 16-0004 EA 15 Gallon Capacity Polyethylene Acid Neutralization Tank	921.64	366.19
22 66 83 16-0005 EA 30 Gallon Capacity Polyethylene Acid Neutralization Tank	1,181.24	528.16
22 66 83 16-0006 EA 55 Gallon Capacity Polyethylene Acid Neutralization Tank	1,528.98	704.21
22 66 83 16-0007 EA 100 Gallon Capacity Polyethylene Acid Neutralization Tank	1,934.26	845.06
22 66 83 16-0008 EA 150 Gallon Capacity Polyethylene Acid Neutralization Tank	2,594.75	1,056.32
22 66 83 16-0009 EA 200 Gallon Capacity Polyethylene Acid Neutralization Tank	3,046.63	1,320.41
22 66 83 16-0010 EA 275 Gallon Capacity Polyethylene Acid Neutralization Tank	3,889.78	1,584.48
22 66 83 16-0011 EA 350 Gallon Capacity Polyethylene Acid Neutralization Tank	4,468.21	1,901.38
22 66 83 16-0012 Polypropylene Acid Neutralization Tank <small>(22 66 83 16-0001)</small>		
22 66 83 16-0013 EA 5 Gallon Capacity Polypropylene Acid Neutralization Tank	801.08	264.09
22 66 83 16-0014 EA 15 Gallon Capacity Polypropylene Acid Neutralization Tank	1,336.31	366.19
22 66 83 16-0015 EA 30 Gallon Capacity Polypropylene Acid Neutralization Tank	2,354.20	528.16
22 66 83 16-0016 EA 55 Gallon Capacity Polypropylene Acid Neutralization Tank	3,105.03	704.21
22 66 83 16-0017 EA 100 Gallon Capacity Polypropylene Acid Neutralization Tank	3,912.80	845.06
22 66 83 16-0018 EA 150 Gallon Capacity Polypropylene Acid Neutralization Tank	4,007.10	1,056.32
22 66 83 16-0019 EA 200 Gallon Capacity Polypropylene Acid Neutralization Tank	4,452.76	1,320.41
22 66 83 16-0020 EA 275 Gallon Capacity Polypropylene Acid Neutralization Tank	6,345.04	1,584.48
22 66 83 16-0021 EA 350 Gallon Capacity Polypropylene Acid Neutralization Tank	6,956.20	1,901.38
22 66 83 16-0022 Chemical Dilution Trap <small>(22 66 83 16)</small>		
22 66 83 16-0023 EA 1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	474.78	88.03
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0024 EA 1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	488.37	88.03
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0025 EA 2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	501.97	88.03
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0026 EA 5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	555.19	105.63
Note: 1-1/2" top inlet and side outlet with anti siphon.		

END OF SECTION 22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	650.31
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	928.64
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	974.52
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,073.82
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,944.42
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	872.91
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,252.54
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,321.97
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,471.79
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,672.62
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,025.90
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,499.50
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,463.70
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,387.99
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	10,113.35

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping and Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	35.21
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	42.26
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	49.30
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	56.34
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	70.43
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System.....	14.09
23 01 20 91-0008	EA	Lock Out/Tag Out Tag.....	3.98

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	354.77
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23 01 20 91-0011 Pipe Freezing ^(23 01 20 91)

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	834.99
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	413.13
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	1,012.34
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	475.73
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,408.47
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	538.52
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,607.68
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	638.28
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,379.27
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	735.55
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	4,992.39
		Note: Includes freezing on each side of valve or fitting.	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	985.82	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	6,641.32	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,466.44	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	9,182.11	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,018.15	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	11,837.26	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,640.51	
23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91) Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing	2.32	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing	3.17	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing	4.87	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing	6.69	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing	8.21	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing	10.38	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing	13.68	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing	16.42	
23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	283.38	
23 01 20 91-0041 Purge Liquid Systems (23 01 20 91) Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System	445.21	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System	556.51	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System	794.34	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System	951.85	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,006.23	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	1,921.17	
23 01 20 91-0048 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	463.58	
23 01 20 91-0049 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	662.07	
23 01 20 91-0050 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	793.29	
23 01 20 91-0051 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	838.63	
23 01 20 91-0052 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,601.02	
23 01 20 91-0053 EA Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	617.07	
23 01 20 91-0054 EA >100 To 250', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	880.56	
23 01 20 91-0055 EA >250 To 500', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,048.29	
23 01 20 91-0056 EA >500 To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	1,114.64	
23 01 20 91-0057 EA >1,000 To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	2,147.71	
23 01 20 91-0058 EA Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System	760.74	
23 01 20 91-0059 EA >100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System	1,087.11	
23 01 20 91-0060 EA >250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System	2,992.36	
23 01 20 91-0061 EA >1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System	4,748.74	
23 01 20 91-0062 Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0063 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0064 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	2.87	
23 01 20 91-0065 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	4.77	
23 01 20 91-0066 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	6.68	
23 01 20 91-0067 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	8.64	
23 01 20 91-0068 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	12.00	
23 01 20 91-0069 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0070 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	3.07	
23 01 20 91-0071 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	5.01	
23 01 20 91-0072 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	7.02	
23 01 20 91-0073 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	9.15	
23 01 20 91-0074 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	12.68	
23 01 20 91-0075 Drewspere 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0062)		
23 01 20 91-0076 LF Up To 1", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	3.12	
23 01 20 91-0077 LF >1" To 2", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	5.11	
23 01 20 91-0078 LF >2" To 3", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	7.16	
23 01 20 91-0079 LF >3" To 4", Drewspere 4945/4395 Pipe Disinfection/Flush/Testing	9.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0080 LF >4" To 6", Drewspurse 4945/4395 Pipe Disinfection/Flush/Testing.....	12.94	
23 01 20 91-0081 Add-A-Valve Emergency Shut Off Device (23 01 20 91)		
23 01 20 91-0082 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	335.25	
23 01 20 91-0083 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	421.09	
23 01 20 91-0084 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	578.95	
23 01 20 91-0085 EA 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	876.36	
23 01 20 91-0086 EA 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,078.97	
23 01 20 91-0087 EA 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,616.97	
23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)		
23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)		
23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment (23 01 30 51)		
23 01 30 51-0002 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.33	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i>		
	1.08	
23 01 30 51-0003 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.42	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i>		
	1.36	
23 01 30 51-0004 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i>		
	1.82	
23 01 30 51-0005 LF >8 SF Cross Section, Clean Supply/Return Ductwork	10.27	
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.		
<i>For Exhaust Ductwork, Add</i>		
	2.57	
23 01 30 51-0006 SF Clean Duct Dampers	14.60	
23 01 30 51-0007 SF Clean Duct Fire Dampers	29.19	
23 01 30 51-0008 SF Clean Louver	11.68	
23 01 30 51-0009 EA Clean Turning Vane Set	35.04	
23 01 30 51-0010 EA Clean Grille/Diffuser/Register	35.04	
Note: Includes removal and reinstallation.		
23 01 30 51-0011 LF Clean Linear Diffuser	8.76	
Note: Includes removal and reinstallation.		
23 01 30 51-0012 EA Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	104.26	
<i>For Stainless Steel, Add</i>		
	51.04	
23 01 30 51-0013 EA Clean Variable Air Volume (VAV) Unit	105.11	
23 01 30 51-0014 EA Clean Fan Powered Induction Unit (PIU) Unit	140.15	
23 01 30 51-0015 EA Clean Fan Coil Unit (FCU)	140.15	
23 01 30 51-0016 EA Clean Packaged Terminal Air Conditioning Unit	140.15	
23 01 30 51-0017 EA Clean Supply Or Return Fan	280.31	
23 01 30 51-0018 EA Clean Exhaust Fan	245.28	
23 01 30 51-0019 EA Clean Duct Coil	210.24	
23 01 30 51-0020 SF Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.01	
Note: Excluding fan and coils.		
23 01 30 51-0021 EA Clean Air Handling Unit Fan	280.31	
23 01 30 51-0022 EA Clean Air Handling Unit Coil	420.47	
23 01 30 51-0023 SF Clean Equipment Surfaces, Rust Reform And Prime	3.54	
23 01 30 51-0024 SF Clean Interior Equipment Surfaces, Rust Reform And Prime	4.23	
23 01 30 51-0025 SF High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.60	
23 01 30 51-0026 EA Cleaning Of Ductwork Minimum Set-up Charge	946.85	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 01 30 51-0027 SF Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning	0.61	
23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)		
23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)		
Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.		
23 01 30 61-0002 SF Repair And Sealing Of Ductwork	2.36	
Note: Clean, apply sealant and tape		
23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)		
23 01 50 61 Central Heating Equipment Repair (23 01 50)		
23 01 50 61-0001 Boiler Repairs (23 01 50 61)		
23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)		
23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance	2,873.91	
Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance.....	3,063.94	
Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.		
For Burner Seals, Add	687.39	
Note: Used when burner must be removed from door for maintenance.		
23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance	3,831.89	
Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.		
23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance.....	1,915.94	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance	3,831.89	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0008 EA Removal And Replacement Of Handhole	119.75	
23 01 50 61-0009 EA Removal And Replacement Of Manhole.....	359.24	
23 01 50 61-0010 SF Sheet Metal Jacket Patch	13.15	
23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube.....	287.39	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	359.25	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....	502.93	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination	9.67	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination	11.22	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination	12.79	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination	18.14	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination	21.19	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination	26.97	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	35.92	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	53.88	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	71.84	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	89.81	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	125.74	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	107.78	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	143.70	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	179.62	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	215.54	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	251.46	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	287.39	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	345.32	
23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,849.35	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	1,866.16	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,531.49	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	5,073.74	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,562.37	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....	4,465.76	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler	8,011.57	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	5,954.22	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....	6,856.40	
23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold	133.12	
Note: Includes support, linkages and removal of existing.		
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold.....	1,740.26	
Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.		
23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)		
Note: Includes mounting plate, mechanical and electrical labor for installation of burners.		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....	9,315.19	1,382.41
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	13,307.69	1,711.53
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	15,743.26	2,073.47
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	18,469.35	2,231.15
23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)		
Note: 3 LB chemical per 50 gallon system water.		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda	1.36	
Note: Includes disposal after treatment.		
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate.....	2.04	
Note: Includes disposal after treatment.		
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	127.21	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 61 Central Cooling Equipment Repair (23 01 60)

23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)

23 01 60 61-0002	EA	Removal And Replacement Of 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	2,896.99
23 01 60 61-0003	EA	Removal And Replacement Of 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,402.37
23 01 60 61-0004	EA	Removal And Replacement Of 6' Diameter 6 Blade, Cooling Tower Fan Blade.....	3,904.04
23 01 60 61-0005	EA	Removal And Replacement Of 6' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,599.40
23 01 60 61-0006	EA	Removal And Replacement Of 6' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,062.35
23 01 60 61-0007	EA	Removal And Replacement Of 8' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,209.02
23 01 60 61-0008	EA	Removal And Replacement Of 8' Diameter 5 Blade, Cooling Tower Fan Blade.....	3,563.14
23 01 60 61-0009	EA	Removal And Replacement Of 8' Diameter 6 Blade, Cooling Tower Fan Blade.....	4,171.79
23 01 60 61-0010	EA	Removal And Replacement Of 8' Diameter 7 Blade, Cooling Tower Fan Blade.....	4,743.56
23 01 60 61-0011	EA	Removal And Replacement Of 8' Diameter 8 Blade, Cooling Tower Fan Blade.....	5,217.59
23 01 60 61-0012	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 6' Diameter Fan	793.41
23 01 60 61-0013	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 8' Diameter Fan	826.67
23 01 60 61-0014	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 10' Diameter Fan	885.77
23 01 60 61-0015	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 12' Diameter Fan	1,031.54
23 01 60 61-0016	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 14' Diameter Fan	1,275.05
23 01 60 61-0017	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 16' Diameter Fan	1,715.93
23 01 60 61-0018	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 18' Diameter Fan	1,806.37
23 01 60 61-0019	EA	Removal And Replacement Of Individual Cooling Tower Fan Blade For 20' Diameter Fan	1,942.05
23 01 60 61-0020	EA	Removal And Replacement Of Counterflow Nozzle (1/2" - 2" NPT Thread)	43.63
23 01 60 61-0021	EA	Removal And Replacement Of 6' Polyvinyl Chloride (PVC) Splash Fill	28.24

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)

23 01 60 71-0002	LB	Recovery Of Refrigerant	11.04
23 01 60 71-0003	LB	Recovery And Recharging Of Refrigerant	20.69

Note: Includes cleaning refrigerant gas prior to recharging.

23 05 Common Work Results for HVAC (23)

23 05 13 Common Motor Requirements for HVAC Equipment (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0004	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	613.18
23 05 13 00-0005	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	694.31
23 05 13 00-0006	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0007	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	683.67
23 05 13 00-0008	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	726.23
23 05 13 00-0009	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	952.35
23 05 13 00-0010	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	803.38
23 05 13 00-0011	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	778.11
23 05 13 00-0012	EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	973.63
23 05 13 00-0013	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	814.02
23 05 13 00-0014	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	839.29
23 05 13 00-0015	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,239.65
23 05 13 00-0016	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	888.51
23 05 13 00-0017	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	919.10
23 05 13 00-0018	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,624.05
23 05 13 00-0019	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,409.91
23 05 13 00-0020	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,351.38
23 05 13 00-0021	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,947.27
23 05 13 00-0022	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,612.08
23 05 13 00-0023	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,636.02
23 05 13 00-0024	EA	10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,533.84
23 05 13 00-0025	EA	15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,290.43
23 05 13 00-0026	EA	15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,317.03
23 05 13 00-0027	EA	15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,417.03
23 05 13 00-0028	EA	20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,690.79
23 05 13 00-0029	EA	20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,908.93
23 05 13 00-0030	EA	20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,159.22
23 05 13 00-0031	EA	25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,230.81
23 05 13 00-0032	EA	25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,546.05
23 05 13 00-0033	EA	25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,023.79
23 05 13 00-0034	EA	30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,812.07
23 05 13 00-0035	EA	30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,877.24

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 13 00-0036	EA	30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,240.59	
23 05 13 00-0037	EA	40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,912.06	
23 05 13 00-0038	EA	40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,058.37	
23 05 13 00-0039	EA	50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,349.66	
23 05 13 00-0040	EA	50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,582.43	
23 05 13 00-0041	EA	60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,768.88	
23 05 13 00-0042	EA	60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,028.25	
23 05 13 00-0043	EA	75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,879.75	
23 05 13 00-0044	EA	75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	8,627.03	
23 05 13 00-0045	EA	100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,491.59	
23 05 13 00-0046	EA	100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	10,036.93	
23 05 13 00-0047	EA	125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	11,912.38	
23 05 13 00-0048	EA	125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	12,312.74	
23 05 13 00-0049	EA	150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	14,694.94	

23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0051	EA	40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	7,465.85	
23 05 13 00-0052	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	9,038.03	
23 05 13 00-0053	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	11,474.77	
23 05 13 00-0054	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	12,775.61	
23 05 13 00-0055	EA	100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	14,061.82	
23 05 13 00-0056	EA	125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	15,185.75	
23 05 13 00-0057	EA	150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	13,677.42	
23 05 13 00-0058	EA	150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,884.52	
23 05 13 00-0059	EA	200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	16,652.85	
23 05 13 00-0060	EA	200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	17,091.78	
23 05 13 00-0061	EA	200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	23,509.52	

23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.

23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0064	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor	716.92	
23 05 13 00-0065	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	790.08	
23 05 13 00-0066	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0067	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	812.69	
23 05 13 00-0068	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	820.67	
23 05 13 00-0069	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	889.84	
23 05 13 00-0070	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	851.26	
23 05 13 00-0071	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	986.93	
23 05 13 00-0072	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	940.38	
23 05 13 00-0073	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0074	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,094.67	
23 05 13 00-0075	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,029.50	
23 05 13 00-0076	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,705.19	
23 05 13 00-0077	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,640.01	
23 05 13 00-0078	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,484.39	
23 05 13 00-0079	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,662.62	
23 05 13 00-0080	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,675.93	

23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)

23 05 13 00-0082	EA	1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,022.85	
23 05 13 00-0083	EA	1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,145.22	
23 05 13 00-0084	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,080.04	
23 05 13 00-0085	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,060.09	
23 05 13 00-0086	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,363.35	
23 05 13 00-0087	EA	2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,135.91	
23 05 13 00-0088	EA	2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,110.63	
23 05 13 00-0089	EA	2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,384.63	
23 05 13 00-0090	EA	3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,226.35	
23 05 13 00-0091	EA	3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,260.93	
23 05 13 00-0092	EA	3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,725.14	
23 05 13 00-0093	EA	5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,509.66	
23 05 13 00-0094	EA	5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,262.26	
23 05 13 00-0095	EA	5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,001.80	
23 05 13 00-0096	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,747.75	
23 05 13 00-0097	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,683.91	
23 05 13 00-0098	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,854.39	
23 05 13 00-0099	EA	10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,048.35	
23 05 13 00-0100	EA	10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,888.74	
23 05 13 00-0101	EA	10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,258.74	
23 05 13 00-0102	EA	15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,822.47	
23 05 13 00-0103	EA	15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,583.05	
23 05 13 00-0104	EA	15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,346.77	
23 05 13 00-0105	EA	20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,097.80	
23 05 13 00-0106	EA	20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,132.39	
23 05 13 00-0107	EA	20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,787.27	
23 05 13 00-0108	EA	25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,042.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,096.71	
23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,548.08	
23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,802.99	
23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,860.19	
23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,564.28	
23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,584.00	
23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,355.22	
23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,426.42	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,202.49	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	6,945.78	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,390.98	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,118.07	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,994.37	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,826.39	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,771.38	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,686.26	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	16,100.86	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	14,512.72	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	17,966.99	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,667.09	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	25,974.19	

23 05 13 00-0130

Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,062.75	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,167.83	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,290.20	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,812.93	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,209.06	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,190.44	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,509.66	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,255.85	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,264.93	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,242.31	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,529.62	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,845.08	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,496.36	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,572.18	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,207.97	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,085.83	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,840.86	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,600.11	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,237.23	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,912.06	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,402.16	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,015.10	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,201.55	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,617.01	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,557.78	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,412.80	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,159.22	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,552.07	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,272.05	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,073.86	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,768.41	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,746.74	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,817.39	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,297.32	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,478.92	
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,971.76	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,587.51	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,314.84	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,770.21	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,593.07	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,123.55	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,728.12	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,683.99	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,703.70	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,878.89	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,052.43	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,868.87	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,587.83	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,686.26	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,546.36	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	15,828.19	
23 05 13 00-0182	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,064.24	
23 05 13 00-0183	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,323.38	
23 05 13 00-0184	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	19,263.84	
23 05 13 00-0185	EA		100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,421.41	
23 05 13 00-0186	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,176.68	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 13 Common Motor Requirements for HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0187 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	21,188.49	
23 05 13 00-0188 EA 125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,295.76	
23 05 13 00-0189 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	19,124.18	
23 05 13 00-0190 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	23,936.48	
23 05 13 00-0191 EA 150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,621.01	
23 05 13 00-0192 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,404.20	
23 05 13 00-0193 EA 150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,987.73	
23 05 13 00-0194 EA 200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,786.88	
23 05 13 00-0195 EA 200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	26,951.82	
23 05 13 00-0196 EA 200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	35,351.40	

23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,417.89	
23 05 13 00-0199 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,468.43	
23 05 13 00-0200 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,601.44	
23 05 13 00-0201 EA 3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,979.19	
23 05 13 00-0202 EA 5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	2,194.66	
23 05 13 00-0203 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,024.65	
23 05 13 00-0204 EA 10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,087.16	
23 05 13 00-0205 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,179.17	
23 05 13 00-0206 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,764.42	
23 05 13 00-0207 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	6,259.45	
23 05 13 00-0208 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	7,025.59	
23 05 13 00-0209 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	9,187.00	
23 05 13 00-0210 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	10,346.85	
23 05 13 00-0211 EA 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	14,474.15	
23 05 13 00-0212 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	16,992.03	
23 05 13 00-0213 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	20,699.02	
23 05 13 00-0214 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	27,054.23	
23 05 13 00-0215 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	30,868.96	

23 05 13 00-0216 Motor Mounting (23 05 13)

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217 EA 1/2 HP Motor Mounting.....	215.14	109.46
23 05 13 00-0218 EA 3/4 HP Motor Mounting.....	247.88	136.83
23 05 13 00-0219 EA 1 HP Motor Mounting.....	265.17	136.83
23 05 13 00-0220 EA 1-1/2 HP Motor Mounting.....	285.06	136.83
23 05 13 00-0221 EA 2 HP Motor Mounting.....	308.17	164.19
23 05 13 00-0222 EA 3 HP Motor Mounting.....	356.32	164.19
23 05 13 00-0223 EA 5 HP Motor Mounting.....	422.31	273.66
23 05 13 00-0224 EA 7-1/2 HP Motor Mounting.....	542.96	273.66
23 05 13 00-0225 EA 10 HP Motor Mounting.....	712.64	478.90
23 05 13 00-0226 EA 15 HP Motor Mounting.....	877.10	478.90
23 05 13 00-0227 EA 20 HP Motor Mounting.....	1,036.57	684.14
23 05 13 00-0228 EA 25 HP Motor Mounting.....	1,175.49	684.14
23 05 13 00-0229 EA 30 HP Motor Mounting.....	1,425.28	684.14
23 05 13 00-0230 EA 40 HP Motor Mounting.....	1,605.95	1,026.20
23 05 13 00-0231 EA 50 HP Motor Mounting.....	1,781.60	1,026.20
23 05 13 00-0232 EA 75 HP Motor Mounting.....	2,151.36	1,505.10
23 05 13 00-0233 EA 100 HP Motor Mounting.....	2,591.41	1,505.10
23 05 13 00-0234 EA 125 HP Motor Mounting.....	3,167.29	2,052.40
23 05 13 00-0235 EA 150 HP Motor Mounting.....	3,678.14	2,052.40
23 05 13 00-0236 EA 200 HP Motor Mounting.....	4,223.05	2,462.88

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)**23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)**

Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0003 EA 1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	251.05	113.56
For 300 LB Rating, Add	5.95	
23 05 16 00-0004 EA 3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	282.05	128.07
For 300 LB Rating, Add	6.52	
23 05 16 00-0005 EA 1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	327.52	146.80
For 300 LB Rating, Add	8.50	
23 05 16 00-0006 EA 1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	368.16	163.86
For 300 LB Rating, Add	10.20	
23 05 16 00-0007 EA 1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	397.55	176.11
For 300 LB Rating, Add	11.33	
23 05 16 00-0008 EA 2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	461.96	207.24
For 300 LB Rating, Add	11.90	

23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	686.55	113.51
For 300 LB Rating, Add	136.39	
23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	751.91	136.22
For 300 LB Rating, Add	145.30	
23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	797.54	172.94
For 300 LB Rating, Add	145.33	
23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	860.26	188.12
For 300 LB Rating, Add	156.10	
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	950.74	220.55
For 300 LB Rating, Add	168.68	
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,191.13	369.74
For 300 LB Rating, Add	181.95	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,589.89	404.43
For 300 LB Rating, Add	271.28	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,493.04	449.37
For 300 LB Rating, Add	232.33	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,917.85	574.19
For 300 LB Rating, Add	301.14	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,431.95	699.02
For 300 LB Rating, Add	389.55	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,173.91	529.50
For 300 LB Rating, Add	528.38	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,017.92	998.60
For 300 LB Rating, Add	692.42	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,138.09	1,098.45
For 300 LB Rating, Add	941.26	
23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)		
Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	749.43	155.68
For 300 LB Rating, Add	109.54	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	780.80	156.97
For 300 LB Rating, Add	116.71	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	791.57	162.17
For 300 LB Rating, Add	116.73	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	855.58	176.82
For 300 LB Rating, Add	125.38	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	959.38	207.96
For 300 LB Rating, Add	135.76	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,411.94	414.11
For 300 LB Rating, Add	146.14	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,714.97	422.78
For 300 LB Rating, Add	217.89	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,681.93	468.09
For 300 LB Rating, Add	186.61	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,035.68	534.87
For 300 LB Rating, Add	241.88	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,559.56	655.33
For 300 LB Rating, Add	312.88	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,286.23	794.38
For 300 LB Rating, Add	424.39	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,928.81	808.87
For 300 LB Rating, Add	577.68	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	5,163.75	1,011.07
For 300 LB Rating, Add	785.29	
23 05 17 Sleeves and Sleeve Seals for HVAC Piping (23 05)		
23 05 17 00-0001 Wall Seals And Sleeves (23 05 17)		
Note: Up to 12" walls. Excludes drilling hole.		
23 05 17 00-0002 Ductile Iron Wall Sleeve (23 05 17 00-0001)		
Note: Includes rubber gasket seal.		
23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	139.79	61.72
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	168.87	72.10
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	205.03	86.49
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	297.15	129.67
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	387.50	172.86
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	480.30	216.17
23 05 17 00-0009 Steel Pipe Sleeves (23 05 17 00-0001)		
Note: Includes link seals 12" length.		
23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals.....	159.71	62.44
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals.....	192.23	67.69
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals.....	223.51	72.94
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals.....	274.72	87.49
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals.....	388.87	109.27
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....	698.89	131.17
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	830.40	163.98
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,102.68	201.75
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,508.85	262.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 17 Sleeves and Sleeve Seals for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,635.56	327.95
23 05 19 Meters and Gages for HVAC Piping (23 05) See CSI section 33 19 00 00-0000 for water utility service metering.		
23 05 19 00-0001 Thermometers (23 05 19)		
23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers (23 05 19 00-0001) Note: Various ranges.		
23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	126.45	45.09
23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	144.81	45.09
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers (23 05 19 00-0001) Note: Various ranges.		
23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	163.17	45.09
23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	201.57	45.09
23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	168.18	45.09
23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	176.53	45.09
23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	206.58	45.09
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers (23 05 19 00-0001) Note: Various ranges. Socket connection for thermowell.		
23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	163.17	45.09
23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	184.88	45.09
23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	201.57	45.09
23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	205.83	45.09
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells (23 05 19 00-0001)		
23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell	190.72	84.53
23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell	190.66	84.53
23 05 19 00-0023 Pressure Gauges (23 05 19)		
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	45.90	17.61
23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	55.75	17.61
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	203.58	17.61
23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	260.76	17.61
23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	597.49	17.61
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges (23 05 19 00-0023) Note: Liquid filled.		
23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	129.40	17.61
23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	279.99	17.61
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges (23 05 19 00-0023)		
23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	334.05	17.61
23 05 19 00-0039 Gauge Accessories (23 05 19 00-0023)		
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	89.63	14.09
23 05 19 00-0041 EA 1/4" Snubber Valve	60.00	14.09
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock	38.57	21.14
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock	34.44	21.14
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon	38.51	21.14
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple.....	8.21	7.04
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let.....	84.37	35.22
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union	71.82	14.09
23 05 19 00-0048 EA 1/4" Black Steel Coupling.....	29.80	14.09
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug	17.28	8.45
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap.....	17.82	8.45
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	9.12	4.65
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe	9.07	4.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	9.28	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve	108.22	
23 05 19 00-0055 Valve Lock Covers (23 05 19)		
23 05 19 00-0056 EA Valve Lock Cover.....	82.49	21.56
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter	290.87	95.80
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter	324.71	114.96
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter.....	358.48	127.79
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter	403.94	143.71
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter	478.29	164.28
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter.....	629.95	203.09
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter	1,244.91	196.77
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	297.98	
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter	1,692.56	236.12
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	427.11	
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter	2,207.94	295.15
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	566.17	
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter	2,660.12	393.53
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	655.56	
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter	3,810.81	472.24
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,003.21	
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter	6,090.26	590.31
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,718.38	
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter	8,940.31	752.44
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,602.40	
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter	12,587.45	1,128.66
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	3,615.54	
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter	18,542.53	1,254.08
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	5,612.04	
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter.....	854.90	105.67
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	152.04	20.51
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	158.91	21.58
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	171.53	22.68
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	194.84	30.56
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	233.15	37.04
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	267.03	46.90
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	371.81	54.22
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	414.09	64.08
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0088 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	194.38	20.51
23 05 19 00-0089 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	200.31	21.58
23 05 19 00-0090 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	215.75	22.68
23 05 19 00-0091 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	232.48	30.56
23 05 19 00-0092 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	249.15	37.04
23 05 19 00-0093 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	273.62	46.90
23 05 19 00-0094 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	499.78	54.22
23 05 19 00-0095 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	538.29	64.08
23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	276.25	20.51
23 05 19 00-0098 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	291.58	21.58
23 05 19 00-0099 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	316.43	22.68
23 05 19 00-0100 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	347.28	30.56
23 05 19 00-0101 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	399.70	37.04
23 05 19 00-0102 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	427.00	46.90
23 05 19 00-0103 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	838.52	54.22
23 05 19 00-0104 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	886.45	64.08
23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106 EA 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	191.56	20.51
23 05 19 00-0107 EA 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	199.37	21.58
23 05 19 00-0108 EA 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	211.05	22.68
23 05 19 00-0109 EA 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	231.54	30.56
23 05 19 00-0110 EA 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	248.21	37.04
23 05 19 00-0111 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	273.62	46.90
23 05 19 00-0112 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	494.13	54.22
23 05 19 00-0113 EA 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	530.77	64.08
23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115 EA 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	274.37	20.51
23 05 19 00-0116 EA 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	295.34	21.58
23 05 19 00-0117 EA 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	322.08	22.68
23 05 19 00-0118 EA 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	347.28	30.56
23 05 19 00-0119 EA 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	399.70	37.04
23 05 19 00-0120 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	430.76	46.90
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	838.52	54.22
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	886.45	64.08
23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	407.23	37.04
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	460.87	46.90
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	524.24	54.22
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400).....	590.99	64.08
23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	902.79	147.88
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,016.20	187.75
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	1,477.02	220.45
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	2,242.00	369.57
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	3,535.89	415.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)

23 05 19 00-0135	EA			1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	689.91	105.63
23 05 19 00-0136	EA			1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	813.64	123.23
23 05 19 00-0137	EA			1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	883.50	147.88
23 05 19 00-0138	EA			2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,107.94	187.75
23 05 19 00-0139	EA			3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,589.47	220.45
23 05 19 00-0140	EA			4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	2,363.85	369.57

23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA			Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	270.40	41.52
23 05 19 00-0143	EA			Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	279.01	41.52
23 05 19 00-0144	EA			Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	351.79	41.52
23 05 19 00-0145	EA			Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	362.80	41.52
23 05 19 00-0146	EA			Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	290.03	41.52
23 05 19 00-0147	EA			Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	300.08	41.52
23 05 19 00-0148	EA			Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	371.42	41.52
23 05 19 00-0149	EA			Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	381.47	41.52
23 05 19 00-0150	EA			Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	705.07	41.52
23 05 19 00-0151	EA			Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	714.81	41.52
23 05 19 00-0152	EA			Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	807.32	41.52
23 05 19 00-0153	EA			Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	820.71	41.52
23 05 19 00-0154	EA			Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	728.20	41.52
23 05 19 00-0155	EA			Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	741.59	41.52
23 05 19 00-0156	EA			Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	830.44	41.52
23 05 19 00-0157	EA			Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	845.05	41.52

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

23 05 23 00-0003	EA			1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	86.10	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.30	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0004	EA			3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	88.26	14.09
				<i>For Work In Restricted Working Space, Add</i>	12.95	
				<i>For 150 LB Rating, Add</i>	4.51	
				<i>For 200 LB Rating, Add</i>	6.76	
23 05 23 00-0005	EA			1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	90.79	14.09
				<i>For Work In Restricted Working Space, Add</i>	13.63	
				<i>For 150 LB Rating, Add</i>	4.54	
				<i>For 200 LB Rating, Add</i>	6.80	
23 05 23 00-0006	EA			3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	109.98	15.50
				<i>For Work In Restricted Working Space, Add</i>	18.37	
				<i>For 150 LB Rating, Add</i>	4.88	
				<i>For 200 LB Rating, Add</i>	7.31	
23 05 23 00-0007	EA			1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	133.84	17.61
				<i>For Work In Restricted Working Space, Add</i>	22.24	
				<i>For 150 LB Rating, Add</i>	5.97	
				<i>For 200 LB Rating, Add</i>	8.96	
23 05 23 00-0008	EA			1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	191.39	18.74
				<i>For Work In Restricted Working Space, Add</i>	28.17	
				<i>For 150 LB Rating, Add</i>	9.75	
				<i>For 200 LB Rating, Add</i>	14.62	
23 05 23 00-0009	EA			1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	214.30	21.69
				<i>For Work In Restricted Working Space, Add</i>	32.50	
				<i>For 150 LB Rating, Add</i>	10.60	
				<i>For 200 LB Rating, Add</i>	15.89	
23 05 23 00-0010	EA			2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	256.41	25.63
				<i>For Work In Restricted Working Space, Add</i>	38.41	
				<i>For 150 LB Rating, Add</i>	12.84	
				<i>For 200 LB Rating, Add</i>	19.26	
23 05 23 00-0011	EA			2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	545.26	34.62
				<i>For Work In Restricted Working Space, Add</i>	51.87	
				<i>For 150 LB Rating, Add</i>	37.24	
				<i>For 200 LB Rating, Add</i>	55.85	
				<i>For Chain Operated Type, Add</i>	167.56	
23 05 23 00-0012	EA			3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	638.89	40.20
				<i>For Work In Restricted Working Space, Add</i>	59.85	
				<i>For 150 LB Rating, Add</i>	43.94	
				<i>For 200 LB Rating, Add</i>	65.91	

23 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05	23 00-0014	EA	1/4" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	101.13	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
			<i>For 150 LB Rating, Add</i>	6.01	
			<i>For 200 LB Rating, Add</i>	9.02	
23 05	23 00-0015	EA	3/8" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	103.16	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.95	
			<i>For 150 LB Rating, Add</i>	6.00	
			<i>For 200 LB Rating, Add</i>	9.00	
23 05	23 00-0016	EA	1/2" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	118.56	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
			<i>For 150 LB Rating, Add</i>	7.31	
			<i>For 200 LB Rating, Add</i>	10.97	
23 05	23 00-0017	EA	3/4" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	137.74	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
			<i>For 150 LB Rating, Add</i>	7.65	
			<i>For 200 LB Rating, Add</i>	11.48	
23 05	23 00-0018	EA	1" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	165.52	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
			<i>For 150 LB Rating, Add</i>	9.14	
			<i>For 200 LB Rating, Add</i>	13.71	
23 05	23 00-0019	EA	1-1/4" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	234.72	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
			<i>For 150 LB Rating, Add</i>	14.08	
			<i>For 200 LB Rating, Add</i>	21.12	
23 05	23 00-0020	EA	1-1/2" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	268.80	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
			<i>For 150 LB Rating, Add</i>	16.05	
			<i>For 200 LB Rating, Add</i>	24.07	
23 05	23 00-0021	EA	2" Diameter, 125 LB Brazered Or Soldered Bronze Lead Free Gate Valve.....	340.62	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
			<i>For 150 LB Rating, Add</i>	21.26	
			<i>For 200 LB Rating, Add</i>	31.89	
23 05	23 00-0022		Class 125 Threaded, Bronze Gate Valves <small>(23 05 23 00-0001)</small>		
			Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05	23 00-0023	EA	1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	71.41	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.30	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0024	EA	3/8" Diameter, 125 LB, Threaded Bronze Gate Valve.....	73.57	14.09
			<i>For Work In Restricted Working Space, Add</i>	12.95	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0025	EA	1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	75.84	14.09
			<i>For Work In Restricted Working Space, Add</i>	13.63	
			<i>For 150 LB Rating, Add</i>	3.04	
			<i>For 200 LB Rating, Add</i>	4.56	
			<i>For 250 LB Rating, Add</i>	7.60	
			<i>For 300 LB Rating, Add</i>	10.64	
23 05	23 00-0026	EA	3/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	97.51	15.50
			<i>For Work In Restricted Working Space, Add</i>	18.37	
			<i>For 150 LB Rating, Add</i>	3.63	
			<i>For 200 LB Rating, Add</i>	5.44	
			<i>For 250 LB Rating, Add</i>	9.07	
			<i>For 300 LB Rating, Add</i>	12.70	
23 05	23 00-0027	EA	1" Diameter, 125 LB, Threaded Bronze Gate Valve.....	128.93	17.61
			<i>For Work In Restricted Working Space, Add</i>	22.24	
			<i>For 150 LB Rating, Add</i>	5.48	
			<i>For 200 LB Rating, Add</i>	8.22	
			<i>For 250 LB Rating, Add</i>	13.70	
			<i>For 300 LB Rating, Add</i>	19.18	
23 05	23 00-0028	EA	1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	167.79	18.74
			<i>For Work In Restricted Working Space, Add</i>	28.17	
			<i>For 150 LB Rating, Add</i>	7.39	
			<i>For 200 LB Rating, Add</i>	11.08	
			<i>For 250 LB Rating, Add</i>	18.47	
			<i>For 300 LB Rating, Add</i>	25.86	
23 05	23 00-0029	EA	1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	201.45	21.69
			<i>For Work In Restricted Working Space, Add</i>	32.50	
			<i>For 150 LB Rating, Add</i>	9.31	
			<i>For 200 LB Rating, Add</i>	13.97	
			<i>For 250 LB Rating, Add</i>	23.28	
			<i>For 300 LB Rating, Add</i>	32.59	
23 05	23 00-0030	EA	2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	255.25	25.63
			<i>For Work In Restricted Working Space, Add</i>	38.41	
			<i>For 150 LB Rating, Add</i>	12.72	
			<i>For 200 LB Rating, Add</i>	19.08	
			<i>For 250 LB Rating, Add</i>	31.80	
			<i>For 300 LB Rating, Add</i>	44.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0031 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	535.72	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	36.28	
<i>For 200 LB Rating, Add</i>	54.42	
<i>For 250 LB Rating, Add</i>	90.71	
<i>For 300 LB Rating, Add</i>	126.99	
<i>For Chain Operated Type, Add</i>	163.27	
23 05 23 00-0032 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	633.20	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	43.37	
<i>For 200 LB Rating, Add</i>	65.06	
<i>For 250 LB Rating, Add</i>	108.43	
<i>For 300 LB Rating, Add</i>	151.80	
<i>For Chain Operated Type, Add</i>	195.17	
23 05 23 00-0033 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve	1,260.13	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	103.32	
<i>For 200 LB Rating, Add</i>	154.98	
<i>For 250 LB Rating, Add</i>	258.30	
<i>For 300 LB Rating, Add</i>	361.62	
<i>For Chain Operated Type, Add</i>	464.94	
23 05 23 00-0034 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0035 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	287.92	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
<i>For 150 LB Rating, Add</i>	35.92	
<i>For 250 LB Rating, Add</i>	62.85	
<i>For Chain Operated Type, Add</i>	62.85	
23 05 23 00-0036 EA 2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	431.48	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
<i>For 150 LB Rating, Add</i>	60.69	
<i>For 250 LB Rating, Add</i>	106.20	
<i>For Chain Operated Type, Add</i>	106.20	
23 05 23 00-0037 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	629.28	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	
<i>For 150 LB Rating, Add</i>	91.28	
<i>For 250 LB Rating, Add</i>	159.73	
<i>For Chain Operated Type, Add</i>	159.73	
23 05 23 00-0038 EA 3" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	798.29	40.20
<i>For Work In Restricted Working Space, Add</i>	59.85	
<i>For 150 LB Rating, Add</i>	119.76	
<i>For 250 LB Rating, Add</i>	209.58	
<i>For Chain Operated Type, Add</i>	209.58	
23 05 23 00-0039 EA 4" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,838.81	45.38
<i>For Work In Restricted Working Space, Add</i>	68.08	
<i>For 150 LB Rating, Add</i>	322.38	
<i>For 250 LB Rating, Add</i>	564.16	
<i>For Chain Operated Type, Add</i>	564.16	
23 05 23 00-0040 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0041 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	438.89	147.88
<i>For Work In Restricted Working Space, Add</i>	55.60	
<i>For 150 LB Rating, Add</i>	73.54	
<i>For 250 LB Rating, Add</i>	126.79	
<i>For 300 LB Rating, ASTM A182, Add</i>	346.23	
<i>For Chain Operated Type, Add</i>	126.79	
23 05 23 00-0042 EA 2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	499.94	187.75
<i>For Work In Restricted Working Space, Add</i>	70.42	
<i>For 150 LB Rating, Add</i>	76.91	
<i>For 250 LB Rating, Add</i>	132.60	
<i>For 300 LB Rating, ASTM A182, Add</i>	382.57	
<i>For Chain Operated Type, Add</i>	132.60	
23 05 23 00-0043 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	553.96	188.03
<i>For Work In Restricted Working Space, Add</i>	70.73	
<i>For 150 LB Rating, Add</i>	92.28	
<i>For 250 LB Rating, Add</i>	159.10	
<i>For 300 LB Rating, ASTM A182, Add</i>	436.08	
<i>For Chain Operated Type, Add</i>	159.10	
23 05 23 00-0044 EA 3" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	673.61	220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	115.34	
<i>For 250 LB Rating, Add</i>	198.86	
<i>For 300 LB Rating, ASTM A182, Add</i>	535.66	
<i>For Chain Operated Type, Add</i>	198.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045 EA 4" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	993.44	369.57
For Work In Restricted Working Space, Add	138.94	
For 150 LB Rating, Add	153.79	
For 250 LB Rating, Add	265.16	
For 300 LB Rating, ASTM A182, Add	761.88	
For Chain Operated Type, Add	265.16	
23 05 23 00-0046 EA 5" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,155.51	373.50
For Work In Restricted Working Space, Add	139.85	
For 150 LB Rating, Add	199.91	
For 250 LB Rating, Add	344.67	
For 300 LB Rating, ASTM A182, Add	922.43	
For Chain Operated Type, Add	344.67	
23 05 23 00-0047 EA 6" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,368.95	415.01
For Work In Restricted Working Space, Add	156.19	
For 150 LB Rating, Add	246.02	
For 250 LB Rating, Add	424.17	
For 300 LB Rating, ASTM A182, Add	1,108.64	
For Chain Operated Type, Add	424.17	
23 05 23 00-0048 EA 8" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,064.01	530.29
For Work In Restricted Working Space, Add	197.62	
For 150 LB Rating, Add	407.53	
For 250 LB Rating, Add	702.64	
For 300 LB Rating, ASTM A182, Add	1,734.64	
For Chain Operated Type, Add	702.64	
23 05 23 00-0049 EA 10" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,662.83	645.57
For Work In Restricted Working Space, Add	242.09	
For 150 LB Rating, Add	538.21	
For 250 LB Rating, Add	927.94	
For 300 LB Rating, ASTM A182, Add	2,259.36	
For Chain Operated Type, Add	927.94	
23 05 23 00-0050 EA 12" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,629.53	783.89
For Work In Restricted Working Space, Add	293.44	
For 150 LB Rating, Add	768.91	
For 250 LB Rating, Add	1,325.70	
For 300 LB Rating, ASTM A182, Add	3,140.47	
For Chain Operated Type, Add	1,325.70	
23 05 23 00-0051 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0052 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	548.53	21.69
For Work In Restricted Working Space, Add	32.50	
For 175 LB Rating, Add	220.10	
For 250 LB Rating, Add	330.14	
23 05 23 00-0053 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	697.09	25.63
For Work In Restricted Working Space, Add	38.41	
For 175 LB Rating, Add	284.53	
For 250 LB Rating, Add	426.79	
23 05 23 00-0054 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve	814.58	34.62
For Work In Restricted Working Space, Add	51.87	
For 175 LB Rating, Add	320.84	
For 250 LB Rating, Add	481.26	
23 05 23 00-0055 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	907.53	40.20
For Work In Restricted Working Space, Add	59.85	
For 175 LB Rating, Add	354.02	
For 250 LB Rating, Add	531.02	
23 05 23 00-0056 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,204.62	45.38
For Work In Restricted Working Space, Add	68.08	
For 175 LB Rating, Add	488.85	
For 250 LB Rating, Add	733.27	
23 05 23 00-0057 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0058 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	550.87	147.88
For Work In Restricted Working Space, Add	55.60	
For 150 LB Rating, Add	54.83	
For 175 LB Rating, Add	113.32	
For 250 LB Rating, Add	237.61	
For Chain Operated Type, Add	182.78	
23 05 23 00-0059 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	611.14	187.75
For Work In Restricted Working Space, Add	70.42	
For 150 LB Rating, Add	56.46	
For 175 LB Rating, Add	116.68	
For 250 LB Rating, Add	244.66	
For Chain Operated Type, Add	188.20	
23 05 23 00-0060 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	624.46	188.03
For Work In Restricted Working Space, Add	70.73	
For 150 LB Rating, Add	58.30	
For 175 LB Rating, Add	120.49	
For 250 LB Rating, Add	252.65	
For Chain Operated Type, Add	194.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0061 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....703.56		220.45
<i>For Work In Restricted Working Space, Add</i>	82.77	
<i>For 150 LB Rating, Add</i>	64.15	
<i>For 175 LB Rating, Add</i>	132.57	
<i>For 250 LB Rating, Add</i>	277.98	
<i>For Chain Operated Type, Add</i>	213.83	
23 05 23 00-0062 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....981.77		369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
<i>For 150 LB Rating, Add</i>	77.80	
<i>For 175 LB Rating, Add</i>	160.78	
<i>For 250 LB Rating, Add</i>	337.12	
<i>For Chain Operated Type, Add</i>	259.32	
23 05 23 00-0063 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,189.79		373.50
<i>For Work In Restricted Working Space, Add</i>	139.85	
<i>For 150 LB Rating, Add</i>	108.54	
<i>For 175 LB Rating, Add</i>	224.32	
<i>For 250 LB Rating, Add</i>	470.35	
<i>For Chain Operated Type, Add</i>	361.81	
23 05 23 00-0064 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,347.02		415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
<i>For 150 LB Rating, Add</i>	123.96	
<i>For 175 LB Rating, Add</i>	256.18	
<i>For 250 LB Rating, Add</i>	537.16	
<i>For Chain Operated Type, Add</i>	413.20	
23 05 23 00-0065 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....2,056.41		530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
<i>For 150 LB Rating, Add</i>	209.65	
<i>For 175 LB Rating, Add</i>	433.28	
<i>For 250 LB Rating, Add</i>	908.49	
<i>For Chain Operated Type, Add</i>	698.84	
23 05 23 00-0066 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....2,957.96		645.57
<i>For Work In Restricted Working Space, Add</i>	242.09	
<i>For 150 LB Rating, Add</i>	322.65	
<i>For 175 LB Rating, Add</i>	666.81	
<i>For 250 LB Rating, Add</i>	1,398.16	
<i>For Chain Operated Type, Add</i>	1,075.51	
23 05 23 00-0067 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....3,704.36		783.89
<i>For Work In Restricted Working Space, Add</i>	293.44	
<i>For 150 LB Rating, Add</i>	408.93	
<i>For 175 LB Rating, Add</i>	845.13	
<i>For 250 LB Rating, Add</i>	1,772.05	
<i>For Chain Operated Type, Add</i>	1,363.12	
23 05 23 00-0068 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....7,114.24		1,040.46
<i>For Work In Restricted Working Space, Add</i>	390.17	
<i>For 150 LB Rating, Add</i>	872.05	
<i>For 175 LB Rating, Add</i>	1,802.23	
<i>For 250 LB Rating, Add</i>	3,778.88	
23 05 23 00-0069 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....9,163.39		1,144.51
<i>For Work In Restricted Working Space, Add</i>	429.19	
<i>For 150 LB Rating, Add</i>	1,159.91	
<i>For 175 LB Rating, Add</i>	2,397.15	
<i>For 250 LB Rating, Add</i>	5,026.29	
23 05 23 00-0070 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....12,412.69		1,269.37
<i>For Work In Restricted Working Space, Add</i>	476.01	
<i>For 150 LB Rating, Add</i>	1,623.90	
<i>For 175 LB Rating, Add</i>	3,356.06	
<i>For 250 LB Rating, Add</i>	7,036.89	
23 05 23 00-0071 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....15,705.29		1,430.64
<i>For Work In Restricted Working Space, Add</i>	536.49	
<i>For 150 LB Rating, Add</i>	2,087.55	
<i>For 175 LB Rating, Add</i>	4,314.27	
<i>For 250 LB Rating, Add</i>	9,046.05	
23 05 23 00-0072 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....21,393.53		1,755.78
<i>For Work In Restricted Working Space, Add</i>	658.42	
<i>For 150 LB Rating, Add</i>	2,879.82	
<i>For 175 LB Rating, Add</i>	5,951.63	
<i>For 250 LB Rating, Add</i>	12,479.22	
23 05 23 00-0073 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....44,374.03		2,861.27
<i>For Work In Restricted Working Space, Add</i>	1,072.97	
<i>For 150 LB Rating, Add</i>	6,119.62	
<i>For 175 LB Rating, Add</i>	12,647.21	
<i>For 250 LB Rating, Add</i>	26,518.34	
23 05 23 00-0074 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....56,605.54		3,815.02
<i>For Work In Restricted Working Space, Add</i>	1,430.63	
<i>For 150 LB Rating, Add</i>	7,775.51	
<i>For 175 LB Rating, Add</i>	16,069.40	
<i>For 250 LB Rating, Add</i>	33,693.89	
23 05 23 00-0075 EA 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....66,606.54		4,904.25
<i>For Work In Restricted Working Space, Add</i>	1,839.10	
<i>For 150 LB Rating, Add</i>	9,071.43	
<i>For 175 LB Rating, Add</i>	18,747.63	
<i>For 250 LB Rating, Add</i>	39,309.54	
23 05 23 00-0076 EA 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....80,191.70		6,130.32
<i>For Work In Restricted Working Space, Add</i>	2,298.87	
<i>For 150 LB Rating, Add</i>	10,879.32	
<i>For 175 LB Rating, Add</i>	22,483.93	
<i>For 250 LB Rating, Add</i>	47,143.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0077 EA 54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	96,230.04	7,356.38
For Work In Restricted Working Space, Add	2,758.64	
For 150 LB Rating, Add	13,055.18	
For 175 LB Rating, Add	26,980.71	
For 250 LB Rating, Add	56,572.46	
23 05 23 00-0078 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001)		
Note: 800 psig at 850 degrees F.		
23 05 23 00-0079 EA 1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	167.17	14.09
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0080 EA 1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	171.60	14.09
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0081 EA 3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	204.31	15.50
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0082 EA 1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	247.98	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0083 EA 1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	374.40	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0084 EA 1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	442.19	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0085 EA 2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	554.20	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0086 200 PSI, Non Rising Stem, Crimped Bronze Gate Valves (23 05 23 00-0001)		
Note: 200 psi cold working pressure.		
23 05 23 00-0087 EA 1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	116.56	14.09
For Work In Restricted Working Space, Add	9.51	
23 05 23 00-0088 EA 3/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	131.38	15.50
For Work In Restricted Working Space, Add	10.83	
23 05 23 00-0089 EA 1" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	171.46	17.61
For Work In Restricted Working Space, Add	12.94	
23 05 23 00-0090 EA 1-1/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	230.63	18.74
For Work In Restricted Working Space, Add	14.26	
23 05 23 00-0091 EA 1-1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	266.71	21.69
For Work In Restricted Working Space, Add	15.85	
23 05 23 00-0092 EA 2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	364.50	25.63
For Work In Restricted Working Space, Add	19.01	
23 05 23 00-0093 Ball Valves (23 05 23)		
See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0094 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093)		
Note: 125 LB WSP.		
23 05 23 00-0095 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	56.94	14.09
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	5.18	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0096 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	78.91	15.50
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	7.96	
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0097 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	98.00	17.61
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	10.74	
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0098 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	133.98	18.74
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	18.04	
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0099 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	159.52	21.69
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	23.03	
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0100 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	192.16	25.63
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	28.85	
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0101 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	475.47	34.62
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	136.16	
For Work In Restricted Working Space, Add	51.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0102 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	548.61	40.20
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	157.10	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0103 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	702.89	45.38
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	214.18	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0104 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0105 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	63.01	14.09
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0106 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	69.32	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0107 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	95.77	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0108 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	120.58	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0109 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	173.29	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0110 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	208.91	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0111 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	266.52	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0112 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0113 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	1,428.07	369.57
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0114 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	2,297.22	415.01
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0115 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	4,840.49	530.29
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0116 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0117 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	53.51	14.09
<i>For True Union Socket Or Thread Type, Add</i>	5.61	
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0118 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	70.51	15.50
<i>For True Union Socket Or Thread Type, Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0119 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	87.06	17.61
<i>For True Union Socket Or Thread Type, Add</i>	9.06	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0120 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	110.88	18.74
<i>For True Union Socket Or Thread Type, Add</i>	11.72	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0121 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	137.89	21.69
<i>For True Union Socket Or Thread Type, Add</i>	17.51	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0122 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	165.70	25.63
<i>For True Union Socket Or Thread Type, Add</i>	21.79	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0123 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	253.93	34.62
<i>For True Union Socket Or Thread Type, Add</i>	41.49	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0124 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	337.27	40.20
<i>For True Union Socket Or Thread Type, Add</i>	65.58	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0125 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	490.36	45.38
<i>For True Union Socket Or Thread Type, Add</i>	117.29	
<i>For Work In Restricted Working Space, Add</i>	68.08	
23 05 23 00-0126 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0093)</small>		
23 05 23 00-0127 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	96.10	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	18.46	
23 05 23 00-0128 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	99.34	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 05 23 00-0129 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	102.73	21.13
<i>For Full Port, Add</i>	15.56	
<i>For Work In Restricted Working Space, Add</i>	20.45	
23 05 23 00-0130 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	128.52	23.24
<i>For Full Port, Add</i>	16.50	
<i>For Work In Restricted Working Space, Add</i>	27.56	
23 05 23 00-0131 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	165.51	26.41
<i>For Full Port, Add</i>	24.44	
<i>For Work In Restricted Working Space, Add</i>	33.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0132 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	215.17	28.10
For Full Port, Add	33.45	
For Work In Restricted Working Space, Add	42.25	
23 05 23 00-0133 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	261.34	32.53
For Full Port, Add	44.47	
For Work In Restricted Working Space, Add	48.75	
23 05 23 00-0134 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	352.90	38.45
For Full Port, Add	72.38	
For Work In Restricted Working Space, Add	57.62	
23 05 23 00-0135 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	649.69	51.93
For Full Port, Add	175.65	
For Work In Restricted Working Space, Add	77.81	
23 05 23 00-0136 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	919.08	60.30
For Full Port, Add	278.92	
For Work In Restricted Working Space, Add	89.78	
23 05 23 00-0137 Crimped Bronze, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0138 Crimped Bronze, 250 PSI, Ball Valves (23 05 23 00-0137)		
Note: Nibco®		
23 05 23 00-0139 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	82.95	14.09
For Work In Restricted Working Space, Add	9.51	
23 05 23 00-0140 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	105.94	15.50
For Work In Restricted Working Space, Add	10.83	
23 05 23 00-0141 EA 1" Crimped Bronze, 250 PSI, Ball Valve	135.07	17.61
For Work In Restricted Working Space, Add	12.94	
23 05 23 00-0142 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	211.99	18.74
For Work In Restricted Working Space, Add	14.26	
23 05 23 00-0143 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	277.36	21.69
For Work In Restricted Working Space, Add	15.85	
23 05 23 00-0144 EA 2" Crimped Bronze, 250 PSI, Ball Valve	413.44	25.63
For Work In Restricted Working Space, Add	19.01	
23 05 23 00-0145 Crimped Bronze, 200 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0146 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	60.00	14.09
23 05 23 00-0147 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	75.88	15.50
23 05 23 00-0148 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	92.11	17.61
23 05 23 00-0149 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	127.13	18.74
23 05 23 00-0150 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	163.02	21.69
23 05 23 00-0151 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	239.39	25.63
23 05 23 00-0152 Crimped Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0153 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	68.42	14.09
23 05 23 00-0154 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	82.01	15.50
23 05 23 00-0155 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	101.90	17.61
23 05 23 00-0156 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	157.74	18.74
23 05 23 00-0157 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	228.83	21.69
23 05 23 00-0158 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	315.92	25.63
23 05 23 00-0159 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0137)		
23 05 23 00-0160 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	66.13	14.09
23 05 23 00-0161 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	79.86	15.50
23 05 23 00-0162 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	97.00	17.61
23 05 23 00-0163 Globe Valves (23 05 23)		
23 05 23 00-0164 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0163)		
23 05 23 00-0165 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	80.05	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0166 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	75.62	14.09
For 150 LB Rating, Add	10.73	
For 200 LB Rating, Add	13.15	
For 250 LB Rating, Add	15.57	
For 300 LB Rating, Add	19.04	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0167 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	94.83	14.09
For 150 LB Rating, Add	16.01	
For 200 LB Rating, Add	19.63	
For 250 LB Rating, Add	23.25	
For 300 LB Rating, Add	28.41	
For Work In Restricted Working Space, Add	12.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0168 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	97.10	14.09
<i>For 150 LB Rating, Add</i>	16.01	
<i>For 200 LB Rating, Add</i>	19.63	
<i>For 250 LB Rating, Add</i>	23.25	
<i>For 300 LB Rating, Add</i>	28.41	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	75.00	
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0169 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	117.23	14.79
<i>For 150 LB Rating, Add</i>	17.36	
<i>For 200 LB Rating, Add</i>	21.28	
<i>For 250 LB Rating, Add</i>	25.20	
<i>For 300 LB Rating, Add</i>	30.80	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	86.09	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0170 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	149.82	14.79
<i>For 150 LB Rating, Add</i>	23.46	
<i>For 200 LB Rating, Add</i>	28.76	
<i>For 250 LB Rating, Add</i>	34.06	
<i>For 300 LB Rating, Add</i>	41.63	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	112.91	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0171 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	224.62	18.74
<i>For 150 LB Rating, Add</i>	40.52	
<i>For 200 LB Rating, Add</i>	49.67	
<i>For 250 LB Rating, Add</i>	58.82	
<i>For 300 LB Rating, Add</i>	71.90	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	181.35	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0172 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	295.16	21.69
<i>For 150 LB Rating, Add</i>	57.91	
<i>For 200 LB Rating, Add</i>	70.99	
<i>For 250 LB Rating, Add</i>	84.07	
<i>For 300 LB Rating, Add</i>	102.75	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	248.84	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0173 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	347.66	25.63
<i>For 150 LB Rating, Add</i>	68.08	
<i>For 200 LB Rating, Add</i>	83.46	
<i>For 250 LB Rating, Add</i>	98.83	
<i>For 300 LB Rating, Add</i>	120.79	
<i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i>	292.80	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0174 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	394.32	34.62
<i>For 150 LB Rating, Add</i>	68.64	
<i>For 200 LB Rating, Add</i>	84.14	
<i>For 250 LB Rating, Add</i>	99.64	
<i>For 300 LB Rating, Add</i>	121.78	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0175 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB	695.57	40.20
<i>For 150 LB Rating, Add</i>	153.78	
<i>For 200 LB Rating, Add</i>	188.51	
<i>For 250 LB Rating, Add</i>	223.23	
<i>For 300 LB Rating, Add</i>	272.84	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0176 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves <small>(23 05 23 00-0163)</small>		
23 05 23 00-0177 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	513.90	25.63
<i>For 150 LB Rating, Add</i>	119.62	
<i>For 200 LB Rating, Add</i>	146.63	
<i>For 250 LB Rating, Add</i>	173.64	
<i>For 300 LB Rating, Add</i>	212.22	
<i>For Chain Operated Type, Add</i>	322.19	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0178 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	640.60	34.62
<i>For 150 LB Rating, Add</i>	144.99	
<i>For 200 LB Rating, Add</i>	177.73	
<i>For 250 LB Rating, Add</i>	210.47	
<i>For 300 LB Rating, Add</i>	257.24	
<i>For Chain Operated Type, Add</i>	390.53	
<i>For Work In Restricted Working Space, Add</i>	51.87	
23 05 23 00-0179 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	760.75	40.20
<i>For 150 LB Rating, Add</i>	173.99	
<i>For 200 LB Rating, Add</i>	213.28	
<i>For 250 LB Rating, Add</i>	252.56	
<i>For 300 LB Rating, Add</i>	308.69	
<i>For Chain Operated Type, Add</i>	468.64	
<i>For Work In Restricted Working Space, Add</i>	59.85	
23 05 23 00-0180 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	975.20	45.38
<i>For 150 LB Rating, Add</i>	231.98	
<i>For 200 LB Rating, Add</i>	284.37	
<i>For 250 LB Rating, Add</i>	336.75	
<i>For 300 LB Rating, Add</i>	411.58	
<i>For Chain Operated Type, Add</i>	624.86	
<i>For Work In Restricted Working Space, Add</i>	68.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0181 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0163)		
23 05 23 00-0182 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	451.98	187.75
For 150 LB Rating, Add	67.34	
For 250 LB Rating, Add	97.76	
For Chain Operated Type, Add	108.62	
For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0183 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	500.60	188.03
For 150 LB Rating, Add	82.10	
For 250 LB Rating, Add	119.17	
For Chain Operated Type, Add	132.42	
For Work In Restricted Working Space, Add	70.73	
23 05 23 00-0184 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	593.69	220.45
For 150 LB Rating, Add	98.51	
For 250 LB Rating, Add	143.01	
For Chain Operated Type, Add	158.90	
For Work In Restricted Working Space, Add	82.77	
23 05 23 00-0185 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	886.85	369.57
For 150 LB Rating, Add	131.35	
For 250 LB Rating, Add	190.67	
For Chain Operated Type, Add	211.86	
For Work In Restricted Working Space, Add	138.94	
23 05 23 00-0186 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,055.41	373.50
For 150 LB Rating, Add	182.66	
For 250 LB Rating, Add	265.16	
For Chain Operated Type, Add	294.62	
For Work In Restricted Working Space, Add	139.85	
23 05 23 00-0187 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,265.45	415.01
For 150 LB Rating, Add	230.90	
For 250 LB Rating, Add	335.17	
For Chain Operated Type, Add	372.42	
For Work In Restricted Working Space, Add	156.19	
23 05 23 00-0188 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,804.12	530.29
For 150 LB Rating, Add	355.07	
For 250 LB Rating, Add	515.42	
For Chain Operated Type, Add	572.69	
For Work In Restricted Working Space, Add	197.62	
23 05 23 00-0189 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,551.50	645.57
For 150 LB Rating, Add	540.81	
For 250 LB Rating, Add	785.05	
For Chain Operated Type, Add	872.28	
For Work In Restricted Working Space, Add	242.09	
23 05 23 00-0190 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	4,279.29	783.89
For 150 LB Rating, Add	1,023.36	
For 250 LB Rating, Add	1,485.52	
For Chain Operated Type, Add	1,650.58	
For Work In Restricted Working Space, Add	293.44	
23 05 23 00-0191 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0163)		
23 05 23 00-0192 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	71.66	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0193 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	67.23	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0194 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	69.39	14.09
For 150 LB Rating, Add	8.13	
For 200 LB Rating, Add	9.96	
For 300 LB Rating, Add	14.42	
For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0195 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	73.40	14.09
For 150 LB Rating, Add	8.67	
For 200 LB Rating, Add	10.62	
For 300 LB Rating, Add	15.38	
For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0196 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	100.01	14.79
For 150 LB Rating, Add	12.02	
For 200 LB Rating, Add	14.74	
For 300 LB Rating, Add	21.33	
For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0197 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	125.01	14.79
For 150 LB Rating, Add	15.77	
For 200 LB Rating, Add	19.33	
For 300 LB Rating, Add	27.98	
For Work In Restricted Working Space, Add	22.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0198 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	169.49	18.74
<i>For 150 LB Rating, Add</i>	23.43	
<i>For 200 LB Rating, Add</i>	28.72	
<i>For 300 LB Rating, Add</i>	41.57	
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0199 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	196.47	21.69
<i>For 150 LB Rating, Add</i>	27.32	
<i>For 200 LB Rating, Add</i>	33.49	
<i>For 300 LB Rating, Add</i>	48.47	
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0200 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	260.78	25.63
<i>For 150 LB Rating, Add</i>	41.15	
<i>For 200 LB Rating, Add</i>	50.44	
<i>For 300 LB Rating, Add</i>	73.01	
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0201 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	427.23	37.60
<i>For 150 LB Rating, Add</i>	74.23	
<i>For 200 LB Rating, Add</i>	90.99	
<i>For 300 LB Rating, Add</i>	131.69	
<i>For Work In Restricted Working Space, Add</i>	56.34	
23 05 23 00-0202 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	622.18	43.67
<i>For 150 LB Rating, Add</i>	125.71	
<i>For 200 LB Rating, Add</i>	154.09	
<i>For 300 LB Rating, Add</i>	223.03	
<i>For Work In Restricted Working Space, Add</i>	65.00	
23 05 23 00-0203 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0163)		
23 05 23 00-0204 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	793.66	187.75
<i>For 250 LB Rating, Add</i>	335.35	
<i>For Chain Operated Type, Add</i>	217.98	
<i>For Work In Restricted Working Space, Add</i>	70.42	
23 05 23 00-0205 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	896.79	188.03
<i>For 250 LB Rating, Add</i>	396.61	
<i>For Chain Operated Type, Add</i>	257.80	
<i>For Work In Restricted Working Space, Add</i>	70.73	
23 05 23 00-0206 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,054.87	220.45
<i>For 250 LB Rating, Add</i>	467.38	
<i>For Chain Operated Type, Add</i>	303.80	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0207 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,575.72	369.57
<i>For 250 LB Rating, Add</i>	667.55	
<i>For Chain Operated Type, Add</i>	433.91	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0208 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,460.13	373.50
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0209 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,514.58	415.01
<i>For 250 LB Rating, Add</i>	1,196.38	
<i>For Chain Operated Type, Add</i>	777.64	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0210 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	4,561.32	530.29
<i>For 250 LB Rating, Add</i>	2,341.55	
<i>For Chain Operated Type, Add</i>	1,522.01	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0211 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0163)		
Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0212 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	208.70	22.82
<i>For Work In Restricted Working Space, Add</i>	12.30	
23 05 23 00-0213 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	213.13	22.82
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0214 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	252.00	30.70
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0215 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	311.06	37.04
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0216 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	500.06	46.90
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0217 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	599.12	54.22
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0218 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	760.36	64.08
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0219 Triple Duty Valves (23 05 23)		
Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0220 Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0221 EA 1" Threaded, Straight Pattern, Triple Duty Valve.....	290.82	14.79
23 05 23 00-0222 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	339.15	18.74
23 05 23 00-0223 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	370.02	21.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0224 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	946.27	187.75
23 05 23 00-0225 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve	1,057.71	188.03
23 05 23 00-0226 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	1,163.27	220.45
23 05 23 00-0227 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	2,352.36	369.57
23 05 23 00-0228 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	2,694.81	373.50
23 05 23 00-0229 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	3,563.01	415.01
23 05 23 00-0230 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	4,788.87	530.29
23 05 23 00-0231 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	7,627.80	645.57
23 05 23 00-0232 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0233 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	925.82	187.75
23 05 23 00-0234 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	1,033.17	188.03
23 05 23 00-0235 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	1,142.82	220.45
23 05 23 00-0236 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	2,299.20	369.57
23 05 23 00-0237 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,629.38	373.50
23 05 23 00-0238 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	2,949.63	415.01
23 05 23 00-0239 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	4,498.54	530.29
23 05 23 00-0240 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	5,996.20	645.57
23 05 23 00-0241 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0242 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,073.30	220.45
23 05 23 00-0243 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,115.18	369.57
23 05 23 00-0244 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,420.83	373.50
23 05 23 00-0245 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,190.89	415.01
23 05 23 00-0246 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	4,281.81	530.29
23 05 23 00-0247 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	6,781.33	645.57
23 05 23 00-0248 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	10,154.67	783.89
23 05 23 00-0249 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	12,334.31	922.23
23 05 23 00-0250 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	15,413.58	1,014.46
23 05 23 00-0251 Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0219)		
Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0252 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	951.04	34.79
23 05 23 00-0253 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	1,134.02	41.50
23 05 23 00-0254 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,318.75	45.00
23 05 23 00-0255 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	2,179.23	48.50
23 05 23 00-0256 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,520.71	58.79
23 05 23 00-0257 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	3,359.83	75.39
23 05 23 00-0258 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	4,567.50	95.68
23 05 23 00-0259 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	7,194.88	107.21
23 05 23 00-0260 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	11,411.57	130.72
23 05 23 00-0261 Plug Valves (23 05 23)		
23 05 23 00-0262 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0261)		
Note: Includes wrench.		
23 05 23 00-0263 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	290.72	14.09
23 05 23 00-0264 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	306.51	15.50
23 05 23 00-0265 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	386.99	17.61
23 05 23 00-0266 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	464.33	18.74
23 05 23 00-0267 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	511.31	21.69
23 05 23 00-0268 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	603.59	25.63
23 05 23 00-0269 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	901.24	34.62
23 05 23 00-0270 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,100.54	40.20
23 05 23 00-0271 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0261)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0272 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	466.73	187.75
23 05 23 00-0273 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	541.35	188.03
23 05 23 00-0274 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	659.88	220.45
23 05 23 00-0275 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	983.10	369.57
23 05 23 00-0276 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	1,907.73	415.01
23 05 23 00-0277 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	3,157.78	530.29
23 05 23 00-0278 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	4,971.49	645.57
23 05 23 00-0279 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench	7,299.33	783.89
23 05 23 00-0280 Plug Valves, Forged Steel, Screwed (23 05 23 00-0261)		
23 05 23 00-0281 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,094.61	14.09
23 05 23 00-0282 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,294.74	15.50
23 05 23 00-0283 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,464.68	17.61
23 05 23 00-0284 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,758.31	18.74
23 05 23 00-0285 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,047.37	21.69
23 05 23 00-0286 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,690.65	25.63



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0287				Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0261)</small>		
				23 05 23 00-0288 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,095.21	369.57
				23 05 23 00-0289 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,604.47	415.01
				23 05 23 00-0290 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,169.52	530.29
				23 05 23 00-0291 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,043.06	645.57
				23 05 23 00-0292 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,912.62	783.89
23 05 23 00-0293				Foot Valves <small>(23 05 23)</small>		
23 05 23 00-0294				Single Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0295 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0296 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	121.04	39.44
				23 05 23 00-0297 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	152.76	45.09
				23 05 23 00-0298 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	198.03	50.72
				23 05 23 00-0299 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	439.11	83.12
				23 05 23 00-0300 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	559.35	101.44
23 05 23 00-0301				Double Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0293)</small>		
				23 05 23 00-0302 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	106.74	35.22
				23 05 23 00-0303 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	214.30	39.44
				23 05 23 00-0304 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	206.56	45.09
				23 05 23 00-0305 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	276.91	50.72
				23 05 23 00-0306 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	536.90	83.12
				23 05 23 00-0307 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	725.28	100.04
23 05 23 00-0308				Float Valves <small>(23 05 23)</small>		
23 05 23 00-0309				Float Valve Assembly For Maintaining Liquid Level In Tanks <small>(23 05 23 00-0308)</small>		
23 05 23 00-0310				Single Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
				23 05 23 00-0311 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	227.76	29.58
				23 05 23 00-0312 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	261.59	35.21
				23 05 23 00-0313 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	336.15	38.02
				23 05 23 00-0314 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....	555.02	47.89
				23 05 23 00-0315 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....	569.11	54.93
23 05 23 00-0316				Double Seat, Bronze Construction <small>(23 05 23 00-0309)</small>		
				Note: For hot or cold water or oil to open tanks.		
				23 05 23 00-0317 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	1,171.72	29.58
				23 05 23 00-0318 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	1,183.00	35.21
				23 05 23 00-0319 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	1,364.22	38.02
				23 05 23 00-0320 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	1,510.36	47.89
				23 05 23 00-0321 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,726.74	54.93
				23 05 23 00-0322 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	2,262.29	64.78
				23 05 23 00-0323 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....	2,635.30	86.88
				23 05 23 00-0324 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	3,168.25	99.85
23 05 23 00-0325				Float Valve Single Seated Balanced For Air Oil Or Water <small>(23 05 23 00-0308)</small>		
				Note: Includes arm, ball and bracket.		
23 05 23 00-0326				Brass Body Threaded Ends <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0327 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	249.92	38.16
				23 05 23 00-0328 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	282.13	42.40
				23 05 23 00-0329 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	346.07	46.90
				23 05 23 00-0330 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	553.64	75.78
				23 05 23 00-0331 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	584.05	86.34
				23 05 23 00-0332 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	663.42	107.04
23 05 23 00-0333				Cast Iron Body Flanged <small>(23 05 23 00-0325)</small>		
				23 05 23 00-0334 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,345.60	188.03
				23 05 23 00-0335 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	8,880.15	220.45
23 05 23 00-0336				Float Operated Valves <small>(23 05 23 00-0308)</small>		
23 05 23 00-0337				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, self-contained, float in-line mount.		
				23 05 23 00-0338 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	840.61	66.19
23 05 23 00-0339				For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0336)</small>		
				Note: Cast iron body, external float tank mount, flanged.		
				23 05 23 00-0340 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,073.84	123.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 05 23 00-0341		Needle Valves <small>(23 05 23)</small>			
23 05 23 00-0342		Bronze Needle Valve <small>(23 05 23 00-0341)</small>			
		Note: For heating and cooling applications.			
23 05 23 00-0343	EA	1/4" Needle Valve, Bronze.....	120.71		14.09
23 05 23 00-0344	EA	3/8" Needle Valve, Bronze.....	134.10		14.09
23 05 23 00-0345	EA	1/2" Needle Valve, Bronze.....	146.33		14.09
23 05 23 00-0346	EA	3/4" Needle Valve, Bronze.....	220.58		15.50
23 05 23 00-0347	EA	1" Needle Valve, Bronze.....	334.07		17.61
23 05 23 00-0348		Eccentric Valves With Taps <small>(23 05 23)</small>			
23 05 23 00-0349		Screwed Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>			
23 05 23 00-0350	EA	1/2" Diameter Eccentric Valves With Taps, Screwed.....	229.00		14.09
23 05 23 00-0351	EA	3/4" Diameter Eccentric Valves With Taps, Screwed.....	247.61		15.50
23 05 23 00-0352	EA	1" Diameter Eccentric Valves With Taps, Screwed.....	311.35		17.61
23 05 23 00-0353	EA	1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	379.12		18.74
23 05 23 00-0354	EA	1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	416.16		21.69
23 05 23 00-0355	EA	2" Diameter Eccentric Valves With Taps, Screwed.....	489.51		25.63
23 05 23 00-0356	EA	2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	732.05		34.62
23 05 23 00-0357	EA	3" Diameter Eccentric Valves With Taps, Screwed.....	885.73		40.20
23 05 23 00-0358		Flanged Eccentric Valves With Taps <small>(23 05 23 00-0348)</small>			
23 05 23 00-0359	EA	2-1/2" Diameter Eccentric Valves With Taps, Flanged.....	899.41		188.03
23 05 23 00-0360	EA	3" Diameter Eccentric Valves With Taps, Flanged.....	1,066.62		220.45
23 05 23 00-0361	EA	4" Diameter Eccentric Valves With Taps, Flanged.....	1,465.65		369.57
23 05 23 00-0362	EA	5" Diameter Eccentric Valves With Taps, Flanged.....	1,878.17		373.50
23 05 23 00-0363	EA	6" Diameter Eccentric Valves With Taps, Flanged.....	2,356.22		415.01
23 05 23 00-0364	EA	8" Diameter Eccentric Valves With Taps, Flanged.....	3,976.94		530.29
23 05 23 00-0365	EA	10" Diameter Eccentric Valves With Taps, Flanged.....	5,537.15		645.57
23 05 23 00-0366	EA	12" Diameter Eccentric Valves With Taps, Flanged.....	9,379.53		783.89
23 05 23 00-0367		Check Valves <small>(23 05 23)</small>			
23 05 23 00-0368		Iron Body Wafer Type Check Valve <small>(23 05 23 00-0367)</small>			
23 05 23 00-0369		Single Disk Type <small>(23 05 23 00-0368)</small>			
23 05 23 00-0370	EA	2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	505.44		187.81
		For 150 LB Rating, Add	56.83		
		For 200 LB Rating, Add	67.66		
		For 300 LB Rating, Add	81.19		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	168.74		
23 05 23 00-0371	EA	2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	590.43		188.12
		For 150 LB Rating, Add	74.46		
		For 200 LB Rating, Add	88.64		
		For 300 LB Rating, Add	106.37		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	206.73		
23 05 23 00-0372	EA	3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	724.18		220.55
		For 150 LB Rating, Add	94.11		
		For 200 LB Rating, Add	112.04		
		For 300 LB Rating, Add	134.45		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	256.88		
23 05 23 00-0373	EA	4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,070.34		369.74
		For 150 LB Rating, Add	127.47		
		For 200 LB Rating, Add	151.75		
		For 300 LB Rating, Add	182.10		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	365.82		
23 05 23 00-0374	EA	6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,599.44		518.94
		For 150 LB Rating, Add	199.66		
		For 200 LB Rating, Add	237.70		
		For 300 LB Rating, Add	285.23		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	557.58		
23 05 23 00-0375	EA	8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,202.35		596.78
		For 150 LB Rating, Add	306.41		
		For 200 LB Rating, Add	364.77		
		For 300 LB Rating, Add	437.72		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	805.24		
23 05 23 00-0376	EA	10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	3,245.22		726.51
		For 150 LB Rating, Add	489.39		
		For 200 LB Rating, Add	582.61		
		For 300 LB Rating, Add	699.13		
		For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,231.65		
23 05 23 00-0377		Twin Disc Type <small>(23 05 23 00-0368)</small>			



Heating, Ventilating, and Air-Conditioning (HVAC)	23
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General-Duty Valves For HVAC Piping	23 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0378 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	603.84	187.81
<i>For 150 LB Rating, Add</i>	77.49	
<i>For 200 LB Rating, Add</i>	92.26	
<i>For 300 LB Rating, Add</i>	110.71	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	213.02	
23 05 23 00-0379 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	678.74	188.12
<i>For 150 LB Rating, Add</i>	93.00	
<i>For 200 LB Rating, Add</i>	110.72	
<i>For 300 LB Rating, Add</i>	132.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	246.47	
23 05 23 00-0380 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	792.74	220.55
<i>For 150 LB Rating, Add</i>	108.51	
<i>For 200 LB Rating, Add</i>	129.18	
<i>For 300 LB Rating, Add</i>	155.02	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	287.73	
23 05 23 00-0381 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,119.54	369.74
<i>For 150 LB Rating, Add</i>	137.80	
<i>For 200 LB Rating, Add</i>	164.05	
<i>For 300 LB Rating, Add</i>	196.86	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	387.96	
23 05 23 00-0382 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,706.81	518.94
<i>For 150 LB Rating, Add</i>	222.21	
<i>For 200 LB Rating, Add</i>	264.54	
<i>For 300 LB Rating, Add</i>	317.45	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	605.90	
23 05 23 00-0383 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,357.30	596.78
<i>For 150 LB Rating, Add</i>	339.35	
<i>For 200 LB Rating, Add</i>	403.99	
<i>For 300 LB Rating, Add</i>	484.79	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	875.45	
23 05 23 00-0384 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,467.70	713.53
<i>For 150 LB Rating, Add</i>	537.43	
<i>For 200 LB Rating, Add</i>	639.80	
<i>For 300 LB Rating, Add</i>	767.76	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,333.34	
23 05 23 00-0385 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	4,528.23	882.18
<i>For 150 LB Rating, Add</i>	720.05	
<i>For 200 LB Rating, Add</i>	857.20	
<i>For 300 LB Rating, Add</i>	1,028.64	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,762.84	
23 05 23 00-0386 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	8,301.78	997.11
<i>For 150 LB Rating, Add</i>	1,464.18	
<i>For 200 LB Rating, Add</i>	1,743.08	
<i>For 300 LB Rating, Add</i>	2,091.69	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,403.43	
23 05 23 00-0387 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	11,305.71	1,169.95
<i>For 150 LB Rating, Add</i>	2,067.09	
<i>For 200 LB Rating, Add</i>	2,460.82	
<i>For 300 LB Rating, Add</i>	2,952.98	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	4,721.96	
23 05 23 00-0388 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	14,989.57	1,302.89
<i>For 150 LB Rating, Add</i>	2,806.57	
<i>For 200 LB Rating, Add</i>	3,341.16	
<i>For 300 LB Rating, Add</i>	4,009.39	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	6,339.07	
23 05 23 00-0389 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	17,810.49	1,462.44
<i>For 150 LB Rating, Add</i>	3,356.31	
<i>For 200 LB Rating, Add</i>	3,995.61	
<i>For 300 LB Rating, Add</i>	4,794.74	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	7,557.71	
23 05 23 00-0390 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	23,250.30	1,794.81
<i>For 150 LB Rating, Add</i>	4,410.08	
<i>For 200 LB Rating, Add</i>	5,250.10	
<i>For 300 LB Rating, Add</i>	6,300.12	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	9,900.16	
23 05 23 00-0391 Lift Check Valves <small>(23 05 23 00-0367)</small>		
23 05 23 00-0392 Bronze Body, Threaded, Vertical Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Watts #600 series.		
23 05 23 00-0393 EA 3/8" Lift Check Valve, Bronze, Threaded.....	124.41	14.09
23 05 23 00-0394 EA 1/2" Lift Check Valve, Bronze, Threaded.....	131.59	14.09
23 05 23 00-0395 EA 3/4" Lift Check Valve, Bronze, Threaded.....	168.53	14.79
23 05 23 00-0396 EA 1" Lift Check Valve, Bronze, Threaded.....	220.57	14.79
23 05 23 00-0397 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	303.80	18.74
23 05 23 00-0398 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	368.24	21.69
23 05 23 00-0399 EA 2" Lift Check Valve, Bronze, Threaded.....	518.81	25.63
23 05 23 00-0400 Bronze Body, Threaded, 300 LB, Lift Check Valves <small>(23 05 23 00-0391)</small>		
Note: Crane 366E.		
23 05 23 00-0401 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	720.22	14.09
23 05 23 00-0402 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	876.21	14.79
23 05 23 00-0403 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,563.92	14.79

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0404	EA		1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,083.20	18.74
23 05 23 00-0405	EA		1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,264.17	21.69
23 05 23 00-0406	EA		2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,906.03	25.63
23 05 23 00-0407			Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0391)		
			Note: Mueller 105MAP.		
23 05 23 00-0408	EA		2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,090.13	187.75
23 05 23 00-0409	EA		2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,038.54	188.03
23 05 23 00-0410	EA		3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,141.47	220.45
23 05 23 00-0411	EA		4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,626.32	369.57
23 05 23 00-0412	EA		5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,962.48	373.50
23 05 23 00-0413	EA		6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,395.11	415.01
23 05 23 00-0414	EA		8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,089.61	530.29
23 05 23 00-0415	EA		10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,126.59	645.57
23 05 23 00-0416	EA		12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,164.80	783.89
23 05 23 00-0417	EA		14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	11,092.14	1,040.46
23 05 23 00-0418	EA		16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	12,287.09	1,144.51
23 05 23 00-0419			Bronze Body Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0420			Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0419)		
23 05 23 00-0421	EA		1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	88.09	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0422	EA		1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	83.66	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.30	
23 05 23 00-0423	EA		3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	85.82	14.09
			For 300 LB Rating, Add	16.63	
			For Work In Restricted Working Space, Add	12.95	
23 05 23 00-0424	EA		1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	89.76	14.09
			For 300 LB Rating, Add	17.28	
			For Work In Restricted Working Space, Add	13.63	
23 05 23 00-0425	EA		3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	114.93	14.79
			For 300 LB Rating, Add	20.94	
			For Work In Restricted Working Space, Add	18.37	
23 05 23 00-0426	EA		1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	147.05	14.79
			For 300 LB Rating, Add	28.44	
			For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0427	EA		1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	196.25	18.74
			For 300 LB Rating, Add	39.92	
			For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0428	EA		1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	251.67	21.69
			For 300 LB Rating, Add	55.90	
			For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0429	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	312.32	25.63
			For 300 LB Rating, Add	71.87	
			For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0430	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	596.52	34.62
			For 300 LB Rating, Add	165.21	
			For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0431	EA		3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	802.00	40.20
			For 300 LB Rating, Add	234.98	
			For Work In Restricted Working Space, Add	59.85	
23 05 23 00-0432	EA		4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	908.72	45.38
			For 300 LB Rating, Add	265.90	
			For Work In Restricted Working Space, Add	68.08	
23 05 23 00-0433			125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0367)		
23 05 23 00-0434	EA		1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	361.73	105.63
			For 150 LB Rating, Add	155.62	
			For 250 LB Rating, Add	297.52	
			For Work In Restricted Working Space, Add	39.86	
23 05 23 00-0435	EA		1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	405.23	123.23
			For 150 LB Rating, Add	171.46	
			For 250 LB Rating, Add	327.78	
			For Work In Restricted Working Space, Add	45.93	
23 05 23 00-0436	EA		1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	458.79	147.88
			For 150 LB Rating, Add	185.96	
			For 250 LB Rating, Add	355.51	
			For Work In Restricted Working Space, Add	55.60	
23 05 23 00-0437	EA		2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	574.39	187.75
			For 150 LB Rating, Add	230.96	
			For 250 LB Rating, Add	441.55	
			For Work In Restricted Working Space, Add	70.42	
23 05 23 00-0438	EA		2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	632.16	188.03
			For 150 LB Rating, Add	269.55	
			For 250 LB Rating, Add	515.31	
			For Work In Restricted Working Space, Add	70.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0439 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	706.66	220.45
<i>For 150 LB Rating, Add</i>	292.92	
<i>For 250 LB Rating, Add</i>	559.99	
<i>For Work In Restricted Working Space, Add</i>	82.77	
23 05 23 00-0440 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,128.84	369.57
<i>For 150 LB Rating, Add</i>	452.68	
<i>For 250 LB Rating, Add</i>	865.42	
<i>For Work In Restricted Working Space, Add</i>	138.94	
23 05 23 00-0441 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,443.56	373.50
<i>For 150 LB Rating, Add</i>	664.63	
<i>For 250 LB Rating, Add</i>	1,270.61	
<i>For Work In Restricted Working Space, Add</i>	139.85	
23 05 23 00-0442 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,653.86	415.01
<i>For 150 LB Rating, Add</i>	770.60	
<i>For 250 LB Rating, Add</i>	1,473.21	
<i>For Work In Restricted Working Space, Add</i>	156.19	
23 05 23 00-0443 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	3,488.02	530.29
<i>For 150 LB Rating, Add</i>	1,923.91	
<i>For 250 LB Rating, Add</i>	3,678.06	
<i>For Work In Restricted Working Space, Add</i>	197.62	
23 05 23 00-0444 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	4,658.21	645.57
<i>For 150 LB Rating, Add</i>	2,618.86	
<i>For 250 LB Rating, Add</i>	5,006.64	
<i>For Work In Restricted Working Space, Add</i>	242.09	
23 05 23 00-0445 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	6,983.98	783.89
<i>For 150 LB Rating, Add</i>	4,083.98	
<i>For 250 LB Rating, Add</i>	7,807.61	
<i>For Work In Restricted Working Space, Add</i>	293.44	
23 05 23 00-0446 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	8,100.03	1,040.46
<i>For 150 LB Rating, Add</i>	4,623.63	
<i>For 250 LB Rating, Add</i>	8,839.29	
<i>For Work In Restricted Working Space, Add</i>	390.17	
23 05 23 00-0447 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	11,333.99	1,144.51
<i>For 150 LB Rating, Add</i>	6,734.28	
<i>For 250 LB Rating, Add</i>	12,874.36	
<i>For Work In Restricted Working Space, Add</i>	429.19	
23 05 23 00-0448 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	17,151.98	1,269.37
<i>For 150 LB Rating, Add</i>	10,584.39	
<i>For 250 LB Rating, Add</i>	20,234.86	
<i>For Work In Restricted Working Space, Add</i>	476.01	
23 05 23 00-0449 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	23,452.55	1,430.64
<i>For 150 LB Rating, Add</i>	14,731.70	
<i>For 250 LB Rating, Add</i>	28,163.54	
<i>For Work In Restricted Working Space, Add</i>	536.49	
23 05 23 00-0450 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	32,523.33	1,755.78
<i>For 150 LB Rating, Add</i>	20,623.45	
<i>For 250 LB Rating, Add</i>	39,427.18	
<i>For Work In Restricted Working Space, Add</i>	658.42	
23 05 23 00-0451 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston		
Check, Swing Check Valves <small>(23 05 23 00-0367)</small>		
Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0452 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve.....	193.13	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0453 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....	228.92	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0454 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....	271.06	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0455 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....	415.95	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0456 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....	492.96	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0457 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....	663.43	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0458 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End		
Connections <small>(23 05 23 00-0367)</small>		
23 05 23 00-0459 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	78.43	14.09
<i>For Work In Restricted Working Space, Add</i>	13.63	
23 05 23 00-0460 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	94.22	15.50
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 05 23 00-0461 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	108.42	17.61
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0462 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	129.61	18.74
<i>For Work In Restricted Working Space, Add</i>	28.17	
23 05 23 00-0463 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	146.12	21.69
<i>For Work In Restricted Working Space, Add</i>	32.50	
23 05 23 00-0464 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	186.77	25.63
<i>For Work In Restricted Working Space, Add</i>	38.41	
23 05 23 00-0465 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	256.52	34.62
<i>For Work In Restricted Working Space, Add</i>	51.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0466 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB..... <i>For Work In Restricted Working Space, Add</i>	308.01 59.85	40.20
23 05 23 00-0467 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (23 05 23 00-0367) Note: Nibco®		
23 05 23 00-0468 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	150.14 9.51	14.09
23 05 23 00-0469 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	189.91 10.83	15.50
23 05 23 00-0470 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	260.60 12.94	17.61
23 05 23 00-0471 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	344.56 14.26	18.74
23 05 23 00-0472 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	409.96 15.85	21.69
23 05 23 00-0473 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve..... <i>For Work In Restricted Working Space, Add</i>	583.18 19.01	25.63
23 05 23 00-0474 Crimped Bronze, 250 PSI, In-Line, Check Valves (23 05 23 00-0367)		
23 05 23 00-0475 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	53.54	14.09
23 05 23 00-0476 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	64.06	15.50
23 05 23 00-0477 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....	75.36	17.61
23 05 23 00-0478 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	94.14	18.74
23 05 23 00-0479 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	118.98	21.69
23 05 23 00-0480 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	183.79	25.63
23 05 23 00-0481 Diaphragm Valves (23 05 23)		
23 05 23 00-0482 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0483 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	289.24	42.14
23 05 23 00-0484 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	368.52	46.68
23 05 23 00-0485 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	401.78	57.71
23 05 23 00-0486 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	636.27	86.24
23 05 23 00-0487 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,013.54	103.74
23 05 23 00-0488 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0489 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	258.55	67.60
23 05 23 00-0490 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	297.87	70.43
23 05 23 00-0491 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	359.10	105.63
23 05 23 00-0492 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	537.22	147.88
23 05 23 00-0493 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	830.83	187.75
23 05 23 00-0494 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,035.66	188.03
23 05 23 00-0495 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,279.55	220.45
23 05 23 00-0496 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,840.91	369.57
23 05 23 00-0497 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	3,607.34	415.01
23 05 23 00-0498 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	5,553.53	530.29
23 05 23 00-0499 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves (23 05 23 00-0481)		
23 05 23 00-0500 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	182.52	42.14
23 05 23 00-0501 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	236.50	46.68
23 05 23 00-0502 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	269.76	57.71
23 05 23 00-0503 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	456.50	86.24
23 05 23 00-0504 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	595.03	103.74



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0505 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>					
23 05 23 00-0506	EA		1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	183.26	67.60
23 05 23 00-0507	EA		3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	213.50	70.43
23 05 23 00-0508	EA		1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	274.72	105.63
23 05 23 00-0509	EA		1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	422.32	147.88
23 05 23 00-0510	EA		2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	563.30	187.75
23 05 23 00-0511	EA		2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	664.14	188.03
23 05 23 00-0512	EA		3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	803.76	220.45
23 05 23 00-0513	EA		4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,280.06	369.57
23 05 23 00-0514	EA		6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	2,350.85	415.01
23 05 23 00-0515	EA		8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	3,560.61	530.29
23 05 23 00-0516 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0481)</small>					
23 05 23 00-0517	EA		1" Diaphragm Valve, Cast Iron, 125 LB, Flanged	333.68	105.63
23 05 23 00-0518	EA		1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	527.88	147.88
23 05 23 00-0519	EA		2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	704.28	187.75
23 05 23 00-0520	EA		2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	968.12	188.03
23 05 23 00-0521	EA		3" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,076.17	220.45
23 05 23 00-0522	EA		4" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,700.45	369.57
23 05 23 00-0523	EA		6" Diaphragm Valve, Cast Iron, 125 LB, Flanged	3,207.87	415.01
23 05 23 00-0524	EA		8" Diaphragm Valve, Cast Iron, 125 LB, Flanged	6,511.60	530.29
23 05 23 00-0525 Solenoid Valves <small>(23 05 23)</small>					
23 05 23 00-0526 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure <small>(23 05 23 00-0525)</small>					
23 05 23 00-0527	EA		1/4" Solenoid Valve, Bronze, 150 PSI, Water	122.69	14.09
23 05 23 00-0528	EA		1/2" Solenoid Valve, Bronze, 150 PSI, Water	141.75	14.09
23 05 23 00-0529	EA		3/4" Solenoid Valve, Bronze, 150 PSI, Water	182.35	15.50
23 05 23 00-0530	EA		1" Solenoid Valve, Bronze, 150 PSI, Water	263.84	17.61
23 05 23 00-0531	EA		1-1/2" Solenoid Valve, Bronze, 150 PSI, Water	458.57	21.69
23 05 23 00-0532	EA		2" Solenoid Valve, Bronze, 150 PSI, Water	705.47	25.63
23 05 23 00-0533	EA		2-1/2" Solenoid Valve, Bronze, 150 PSI, Water	960.42	34.62
23 05 23 00-0534	EA		3" Solenoid Valve, Bronze, 150 PSI, Water	1,377.73	40.20
23 05 23 00-0535 Flow Control Valves And Meters <small>(23 05 23)</small>					
23 05 23 00-0536 Conditioned Water Balancing Valves <small>(23 05 23 00-0535)</small>					
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.					
23 05 23 00-0537	EA		1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	168.31	71.86
23 05 23 00-0538	EA		3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	205.44	95.80
23 05 23 00-0539	EA		1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	351.65	109.47
23 05 23 00-0540	EA		1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	459.09	135.26
23 05 23 00-0541	EA		1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	530.13	143.71
23 05 23 00-0542	EA		2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	712.06	164.28
23 05 23 00-0543	EA		2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,348.01	285.93
23 05 23 00-0544	EA		3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,879.43	326.80
23 05 23 00-0545	EA		3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,582.05	220.55
23 05 23 00-0546	EA		4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,988.58	369.74
23 05 23 00-0547	EA		6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,336.10	467.04
23 05 23 00-0548	EA		8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	3,892.22	596.78
23 05 23 00-0549	EA		10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	6,465.53	726.51
23 05 23 00-0550 Read Out Meters <small>(23 05 23 00-0535)</small>					
Note: For use with conditioned portable water balancing valves.					
23 05 23 00-0551	EA		0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,073.05	
23 05 23 00-0552	EA		0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0553	EA		0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0554	EA		0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,452.16	
23 05 23 00-0555 Balancing Valves <small>(23 05 23)</small>					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0556			Balancing Valves With Lever (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0557	EA		1/2" Threaded Balancing Valve With Lever.....	237.80	44.38
23 05 23 00-0558	EA		3/4" Threaded Balancing Valve With Lever.....	271.00	58.47
23 05 23 00-0559	EA		1" Threaded Balancing Valve With Lever.....	574.93	66.92
23 05 23 00-0560	EA		1-1/4" Threaded Balancing Valve With Lever.....	634.64	83.12
23 05 23 00-0561	EA		1-1/2" Threaded Balancing Valve With Lever.....	676.06	88.05
23 05 23 00-0562	EA		2" Threaded Balancing Valve With Lever.....	891.34	100.74
23 05 23 00-0563	EA		2-1/2" Flanged Balancing Valve With Lever.....	1,182.25	188.12
23 05 23 00-0564	EA		3" Flanged Balancing Valve With Lever.....	1,166.07	220.55
23 05 23 00-0565	EA		4" Flanged Balancing Valve With Lever.....	1,482.95	369.74
23 05 23 00-0566	EA		5" Flanged Balancing Valve With Lever.....	2,132.89	420.34
23 05 23 00-0567	EA		6" Flanged Balancing Valve With Lever.....	2,212.49	467.04
23 05 23 00-0568	EA		8" Flanged Balancing Valve With Lever.....	2,948.14	596.78
23 05 23 00-0569			Balancing Valves With Nut (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0570	EA		4" Flanged Balancing Valve With Nut.....	1,428.03	369.74
23 05 23 00-0571	EA		5" Flanged Balancing Valve With Nut.....	2,092.05	420.34
23 05 23 00-0572	EA		6" Flanged Balancing Valve With Nut.....	2,153.34	467.04
23 05 23 00-0573	EA		8" Flanged Balancing Valve With Nut.....	2,877.72	596.78
23 05 23 00-0574			Balancing Valves With Hand Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0575	EA		4" Flanged Balancing Valve With Hand Wheel.....	1,957.55	369.74
23 05 23 00-0576	EA		5" Flanged Balancing Valve With Hand Wheel.....	2,652.55	420.34
23 05 23 00-0577	EA		6" Flanged Balancing Valve With Hand Wheel.....	2,713.84	467.04
23 05 23 00-0578	EA		8" Flanged Balancing Valve With Hand Wheel.....	3,874.80	596.78
23 05 23 00-0579	EA		10" Flanged Balancing Valve With Hand Wheel.....	5,916.04	726.51
23 05 23 00-0580	EA		12" Flanged Balancing Valve With Hand Wheel.....	7,714.69	564.10
23 05 23 00-0581	EA		14" Flanged Balancing Valve With Hand Wheel.....	10,008.83	1,063.59
23 05 23 00-0582			Balancing Valves With Chain Wheel (23 05 23 00-0555) Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0583	EA		4" Flanged Balancing Valve With Chain Wheel.....	2,256.11	369.74
23 05 23 00-0584	EA		5" Flanged Balancing Valve With Chain Wheel.....	2,949.70	420.34
23 05 23 00-0585	EA		6" Flanged Balancing Valve With Chain Wheel.....	3,010.99	467.04
23 05 23 00-0586	EA		8" Flanged Balancing Valve With Chain Wheel.....	4,232.51	596.78
23 05 23 00-0587	EA		10" Flanged Balancing Valve With Chain Wheel.....	6,266.71	726.51
23 05 23 00-0588	EA		12" Flanged Balancing Valve With Chain Wheel.....	8,367.08	563.70
23 05 23 00-0589	EA		14" Flanged Balancing Valve With Chain Wheel.....	10,573.56	1,063.59
23 05 23 00-0590			Calibrated Balancing Valves (23 05 23 00-0555) Note: Bell & Gossett CB Series.		
23 05 23 00-0591	EA		1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S).....	110.88	14.09
23 05 23 00-0592	EA		3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S).....	133.22	15.50
23 05 23 00-0593	EA		1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S).....	162.48	17.61
23 05 23 00-0594	EA		1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S).....	216.61	18.74
23 05 23 00-0595	EA		1" Threaded Calibrated Balancing Valve (CB-1).....	171.47	17.61
23 05 23 00-0596	EA		1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4).....	232.15	18.74
23 05 23 00-0597	EA		1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2).....	269.50	21.70
23 05 23 00-0598	EA		2" Threaded Calibrated Balancing Valve (CB-2).....	357.08	25.64
23 05 23 00-0599	EA		2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2).....	645.80	37.61
23 05 23 00-0600	EA		3" Threaded Calibrated Balancing Valve (CB-3).....	891.41	43.68
23 05 23 00-0601	EA		2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F).....	861.37	204.29
23 05 23 00-0602	EA		3" Flanged Calibrated Balancing Valve (CB-3F).....	1,219.84	239.52
23 05 23 00-0603	EA		4" Flanged Calibrated Balancing Valve (CB-4F).....	1,922.15	401.53
23 05 23 00-0604	EA		5" Flanged Calibrated Balancing Valve (CB-5F).....	2,708.39	456.48
23 05 23 00-0605	EA		6" Flanged Calibrated Balancing Valve (CB-6F).....	3,519.19	507.20
23 05 23 00-0606	EA		8" Flanged Calibrated Balancing Valve (CB-8F).....	6,223.32	648.09
23 05 23 00-0607	EA		10" Flanged Calibrated Balancing Valve (CB-10F).....	8,592.22	744.51
23 05 23 00-0608	EA		12" Flanged Calibrated Balancing Valve (CB-12F).....	17,704.94	904.05
23 05 23 00-0609	EA		4" Grooved Calibrated Balancing Valve (CB-4G).....	2,077.00	48.50
23 05 23 00-0610	EA		5" Grooved Calibrated Balancing Valve (CB-5G).....	2,393.94	58.79
23 05 23 00-0611	EA		6" Grooved Calibrated Balancing Valve (CB-6G).....	3,179.90	75.39
23 05 23 00-0612	EA		8" Grooved Calibrated Balancing Valve (CB-8G).....	5,925.13	95.68
23 05 23 00-0613	EA		10" Grooved Calibrated Balancing Valve (CB-10G).....	7,952.76	107.21
23 05 23 00-0614	EA		12" Grooved Calibrated Balancing Valve (CB-12G).....	16,321.02	130.72
23 05 23 00-0615			Butterfly Valves (23 05 23)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0616 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
<i>Note: With on-off handle</i>		
23 05 23 00-0617 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	366.83	187.75
<i>For 200 PSI, Add</i>	<i>63.40</i>	
<i>For 175 PSI, Add</i>	<i>23.12</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>70.42</i>	
23 05 23 00-0618 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	375.54	188.03
<i>For 200 PSI, Add</i>	<i>67.09</i>	
<i>For 175 PSI, Add</i>	<i>24.46</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>70.73</i>	
23 05 23 00-0619 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	426.42	220.45
<i>For 200 PSI, Add</i>	<i>72.25</i>	
<i>For 175 PSI, Add</i>	<i>26.34</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>82.77</i>	
23 05 23 00-0620 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	652.05	369.57
<i>For 200 PSI, Add</i>	<i>90.68</i>	
<i>For 175 PSI, Add</i>	<i>33.06</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>138.94</i>	
23 05 23 00-0621 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	789.40	415.01
<i>For 200 PSI, Add</i>	<i>129.01</i>	
<i>For 175 PSI, Add</i>	<i>47.04</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>156.19</i>	
23 05 23 00-0622 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	905.07	461.12
<i>For 200 PSI, Add</i>	<i>157.77</i>	
<i>For 175 PSI, Add</i>	<i>57.52</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>172.92</i>	
23 05 23 00-0623 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,153.30	530.29
<i>For 200 PSI, Add</i>	<i>237.39</i>	
<i>For 175 PSI, Add</i>	<i>86.55</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>197.62</i>	
23 05 23 00-0624 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,765.35	645.57
<i>For 200 PSI, Add</i>	<i>460.03</i>	
<i>For 175 PSI, Add</i>	<i>167.72</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>242.09</i>	
23 05 23 00-0625 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,199.17	783.89
<i>For 200 PSI, Add</i>	<i>586.10</i>	
<i>For 175 PSI, Add</i>	<i>213.68</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>293.44</i>	
23 05 23 00-0626 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0627 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	597.21	187.75
<i>For Work In Restricted Working Space, Add</i>	<i>70.42</i>	
23 05 23 00-0628 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	601.32	188.03
<i>For Work In Restricted Working Space, Add</i>	<i>70.73</i>	
23 05 23 00-0629 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	659.88	220.45
<i>For Work In Restricted Working Space, Add</i>	<i>82.77</i>	
23 05 23 00-0630 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	896.25	369.57
<i>For Work In Restricted Working Space, Add</i>	<i>138.94</i>	
23 05 23 00-0631 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,059.72	415.01
<i>For Work In Restricted Working Space, Add</i>	<i>156.19</i>	
23 05 23 00-0632 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,173.77	461.12
<i>For Work In Restricted Working Space, Add</i>	<i>172.92</i>	
23 05 23 00-0633 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,432.84	530.29
<i>For Work In Restricted Working Space, Add</i>	<i>197.62</i>	
23 05 23 00-0634 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,806.82	645.57
<i>For Work In Restricted Working Space, Add</i>	<i>242.09</i>	
23 05 23 00-0635 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,431.10	783.89
<i>For Work In Restricted Working Space, Add</i>	<i>293.44</i>	
23 05 23 00-0636 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0615)</small>		
23 05 23 00-0637 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,894.29	975.43
<i>For 200 PSI, Add</i>	<i>933.74</i>	
<i>For 175 PSI, Add</i>	<i>324.21</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>390.17</i>	
23 05 23 00-0638 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,915.26	1,144.51
<i>For 200 PSI, Add</i>	<i>1,254.46</i>	
<i>For 175 PSI, Add</i>	<i>435.58</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>429.19</i>	
23 05 23 00-0639 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	6,766.87	1,274.56
<i>For 200 PSI, Add</i>	<i>1,863.82</i>	
<i>For 175 PSI, Add</i>	<i>647.16</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>476.88</i>	
23 05 23 00-0640 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,635.86	1,430.64
<i>For 200 PSI, Add</i>	<i>2,465.13</i>	
<i>For 175 PSI, Add</i>	<i>855.95</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>536.49</i>	
23 05 23 00-0641 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	11,550.80	1,755.78
<i>For 200 PSI, Add</i>	<i>3,365.94</i>	
<i>For 175 PSI, Add</i>	<i>1,168.73</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>660.29</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0642 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	23,646.16	2,809.73
For 200 PSI, Add	7,225.25	
For 175 PSI, Add	2,508.77	
For Work In Restricted Working Space, Add	1,072.81	
23 05 23 00-0643 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	29,970.47	3,831.45
For 200 PSI, Add	9,180.16	
For 175 PSI, Add	3,187.56	
For Work In Restricted Working Space, Add	1,341.01	
23 05 23 00-0644 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	36,639.21	5,619.46
For 200 PSI, Add	10,714.41	
For 175 PSI, Add	3,720.28	
For Work In Restricted Working Space, Add	2,063.09	
23 05 23 00-0645 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	44,641.82	7,024.32
For 200 PSI, Add	12,852.64	
For 175 PSI, Add	4,462.72	
For Work In Restricted Working Space, Add	2,682.02	
23 05 23 00-0646 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	53,988.38	8,429.19
For 200 PSI, Add	15,412.80	
For 175 PSI, Add	5,351.67	
For Work In Restricted Working Space, Add	3,352.52	
23 05 23 00-0647 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB <small>(23 05 23 00-0615)</small>		
Note: (Milwaukee Valve Company BB-SC 100)		
23 05 23 00-0648 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	509.10	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0649 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	556.37	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0650 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	696.52	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0651 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	872.34	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0652 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	1,170.82	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 23 00-0653 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB <small>(23 05 23 00-0615)</small>		
Note: (Milwaukee Valve Company BB-S02)		
23 05 23 00-0654 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	762.33	17.61
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0655 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	825.88	18.74
For Work In Restricted Working Space, Add	28.17	
23 05 23 00-0656 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	987.56	21.69
For Work In Restricted Working Space, Add	32.50	
23 05 23 00-0657 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,182.33	25.63
For Work In Restricted Working Space, Add	38.41	
23 05 23 00-0658 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,513.62	34.62
For Work In Restricted Working Space, Add	51.87	
23 05 29 Hangers and Supports for HVAC Piping and Equipment <small>(23 05)</small>		
23 05 29 00-0001 Hangers And Supports <small>(23 05 29)</small>		
23 05 29 00-0002 Clevis Hangers <small>(23 05 29 00-0001)</small>		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) <small>(23 05 29 00-0002)</small>		
Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100)	25.69	11.67
For Work In Restricted Working Space, Add	7.00	
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100)	28.29	12.97
For Work In Restricted Working Space, Add	7.78	
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100)	29.73	12.97
For Work In Restricted Working Space, Add	8.19	
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	30.85	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	31.15	14.03
For Work In Restricted Working Space, Add	8.42	
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100)	32.52	14.27
For Work In Restricted Working Space, Add	8.64	
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	35.67	14.78
For Work In Restricted Working Space, Add	8.90	
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100)	38.07	15.56
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	39.80	17.09
For Work In Restricted Working Space, Add	9.77	
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100)	43.68	18.16
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100)	56.04	21.72
For Work In Restricted Working Space, Add	13.03	
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100)	67.42	25.94
For Work In Restricted Working Space, Add	15.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	90.61 19.45	32.42
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	132.37 25.94	44.09
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	155.11 29.18	48.63
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	193.00 33.46	54.47
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	240.28 38.90	64.84
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	299.49 48.63	81.05
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	483.20 58.35	97.26
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	736.88 68.08	113.46
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	31.91 7.00	11.67
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	34.51 7.78	12.97
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	36.10 8.19	12.97
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	37.34 8.42	14.03
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	38.14 8.42	14.03
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	39.11 8.64	14.27
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	43.71 8.90	14.78
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	45.85 9.15	15.56
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	51.42 10.37	18.16
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	56.67 10.37	18.16
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	92.67 13.03	21.72
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	114.80 15.56	25.94
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	136.78 19.45	32.42
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	25.46 7.00	11.67
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	28.11 7.78	12.97
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	29.69 8.19	12.97
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.49 8.42	14.03
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.67 8.42	14.03
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	31.55 8.64	14.27
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	34.39 8.90	14.78
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	35.90 9.15	15.56
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	40.46 10.37	18.16
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	41.70 10.37	18.16
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	35.89 7.78	12.97
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	37.33 8.19	12.97
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	38.09 8.42	14.03
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	39.33 8.42	14.03
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	42.16 8.64	14.27
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	45.17 8.90	14.78

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	47.39 9.15	15.56
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	56.85 10.37	18.16
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	71.72 13.03	21.72
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	88.46 15.56	25.94
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	125.11 19.45	32.42
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	175.58 25.94	44.09
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	197.22 29.18	48.63
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	43.62 8.64	14.27
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	46.54 8.90	14.78
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	48.94 9.15	15.56
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	54.20 10.37	18.16
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	57.29 10.37	18.16
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	71.15 13.03	21.72
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	83.07 15.56	25.94
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	110.18 19.45	32.42
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072) Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	23.47 6.14	10.24
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	25.72 6.82	11.36
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	28.22 7.57	12.63
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	31.13 8.41	14.02
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	32.72 8.84	14.72
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	35.05 9.26	15.43
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	40.30 9.68	16.13
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	42.09 10.10	16.83
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	50.15 11.36	18.93
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072) Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	27.31 7.78 9.04 11.65	12.97
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	28.80 8.19 9.90 12.75	12.97
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.31 8.64 9.90 12.75	14.27
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	32.19 9.15 11.09 14.28	15.56
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	36.26 10.37 11.09 14.28	18.16
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	38.82 11.12 11.68 15.05	18.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	42.78 11.97 19.01 24.48	19.45
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	46.22 12.97 19.80 25.50	22.04
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	51.35 14.20 26.53 34.17	23.66
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	55.89 15.56 26.53 34.17	25.94
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.71 17.51 55.18 71.06	29.18
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.32 19.45 55.97 72.08	32.42
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	87.89 23.34 66.53 85.68	38.90
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	29.08 7.78 20.72 26.69	12.97
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	30.44 8.19 20.72 26.69	12.97
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	31.95 8.64 20.72 26.69	14.27
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	33.65 9.15 20.72 26.69	15.56
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	37.98 10.37 22.44 28.90	18.16
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	40.45 11.12 22.44 28.90	18.16
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	48.82 11.97 58.87 75.82	19.45
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	54.27 12.97 72.93 93.93	22.04
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	59.26 14.20 78.74 101.41	23.66
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.39 15.56 95.83 123.42	25.94
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	73.07 17.51 97.15 125.12	29.18
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	86.15 19.45 140.65 181.14	32.42

23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)

23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)
Note: Excludes rod and nuts. Type 41.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	40.24 6.23	10.38
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	44.30 7.01	11.68
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	49.34 8.18	13.62
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	56.76 9.34	15.57
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	78.20 10.51	17.51
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	70.03 11.68	19.46
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	87.09 14.01	23.35
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	117.15 16.35	27.25
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114)..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	138.89 19.46	32.43
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110) Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	60.10 10.57 164.21 211.48	18.32
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	62.63 11.33 164.21 211.48	18.88
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	68.00 12.08 183.15 235.88	19.73
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	79.21 12.68 243.80 313.99	21.14
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	83.90 14.09 243.80 313.99	23.95
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	94.70 15.47 284.66 366.61	25.78
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	109.92 16.91 353.50 455.26	28.18
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	150.61 21.14 529.06 681.36	35.22
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	189.43 28.18 630.30 811.75	47.91
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	246.06 31.70 926.57 1,193.32	52.83
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	510.20 36.35 2,567.66 3,306.84	60.58
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	640.28 42.27 3,295.97 4,244.82	70.45
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	58.46 10.57	18.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	62.99 11.33	18.88
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	66.06 12.08	19.73
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	75.15 12.68	21.14
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	83.73 14.09	23.95
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	91.52 15.47	25.78
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	112.00 16.91	28.18
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	145.66 21.14	35.22
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	188.28 28.18	47.91
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	243.06 31.70	52.83
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	265.26 36.35	60.58
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	319.77 42.27	70.45
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	430.82 52.83	88.05
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	533.00 63.40	105.67
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	66.11 10.57	18.32
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	74.30 11.33	18.88
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	78.12 12.08	19.73
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	82.53 12.68	21.14
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	99.19 14.09	23.95
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	112.46 15.47	25.78
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	130.91 16.91	28.18
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	184.59 21.14	35.22
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	230.26 28.18	47.91
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	266.30 31.70	52.83
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	376.53 36.35	60.58
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	451.36 42.27	70.45
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	512.70 52.83	88.05
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	66.55 10.57	18.32
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	74.69 11.33	18.88
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	78.78 12.08	19.73
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	81.95 12.68	21.14
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	103.66 14.09	23.95
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	117.72 15.47	25.78
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	137.19 16.91	28.18
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	194.32 21.14	35.22
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	241.92 28.18	47.91
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	279.95 31.70	52.83
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	398.36 36.35	60.58
23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)		
<i>Note: Includes bolts and weldless eye nuts.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175) Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.62 5.05	8.41
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	22.90 5.13	8.55
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.22 5.22	8.69
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.27 5.30	8.83
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.54 5.38	8.97
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	27.16 5.47	9.11
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	28.25 5.64	9.39
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	29.91 5.81	9.67
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	34.57 5.89	9.82
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	40.18 7.57	12.63
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	57.51 10.10	16.83
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	78.66 12.62	21.04
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	92.56 14.72	24.54
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	134.48 16.83	28.04
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	182.96 18.51	30.85
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	294.88 20.19	33.65
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	319.63 21.88	36.46
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	518.04 23.56	39.26
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	598.85 25.24	42.07
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	779.97 27.77	46.28
23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	45.81 5.40	9.07
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	60.08 5.40	9.07
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	65.94 5.64	9.40
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	105.12 5.87	9.73
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	114.36 6.22	10.37
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	195.58 6.20	10.37
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	316.34 7.00	11.67
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	401.28 7.78	12.97
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	436.38 9.34	15.56
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,355.85 10.89	18.16
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,558.44 11.67	19.45
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,996.04 12.45	20.74
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175) Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	22.81 4.67	7.78
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	23.74 4.75	7.91
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	24.08 4.82	8.04
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	26.02 4.90	8.17
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	27.04 4.98	8.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	27.69	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	28.86	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	30.59	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	33.59	9.07
<i>For Work In Restricted Working Space, Add</i>	5.45	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	40.80	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	52.77	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	66.92	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	91.25	22.70
<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	119.74	25.94
<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	144.72	28.53
<i>For Work In Restricted Working Space, Add</i>	17.12	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	194.15	31.12
<i>For Work In Restricted Working Space, Add</i>	18.67	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	368.55	33.71
<i>For Work In Restricted Working Space, Add</i>	20.23	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.04	7.78
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	40.66	7.91
<i>For Work In Restricted Working Space, Add</i>	4.75	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	42.33	8.04
<i>For Work In Restricted Working Space, Add</i>	4.82	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	45.24	8.17
<i>For Work In Restricted Working Space, Add</i>	4.90	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	51.07	8.30
<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	54.24	8.43
<i>For Work In Restricted Working Space, Add</i>	5.06	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	58.69	8.69
<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	64.48	8.94
<i>For Work In Restricted Working Space, Add</i>	5.37	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	87.29	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	89.87	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	95.40	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	104.74	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	111.80	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	135.23	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	419.39	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	561.79	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	669.41	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	974.98	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,343.64	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	82.97	9.07
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	89.48	9.73
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	156.20	10.37
<i>For Work In Restricted Working Space, Add</i>	6.22	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	173.66	10.37
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	249.30	11.67
<i>For Work In Restricted Working Space, Add</i>	7.00	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	382.15	12.97
<i>For Work In Restricted Working Space, Add</i>	7.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	512.57	15.56
<i>For Work In Restricted Working Space, Add</i>	9.34	
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	610.06	18.16
<i>For Work In Restricted Working Space, Add</i>	10.89	
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	891.62	19.45
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	1,220.25	20.74
<i>For Work In Restricted Working Space, Add</i>	12.45	
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260)		
Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)	37.76	11.92
<i>For Work In Restricted Working Space, Add</i>	7.15	
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)	40.00	12.63
<i>For Work In Restricted Working Space, Add</i>	7.57	
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)	43.51	14.02
<i>For Work In Restricted Working Space, Add</i>	8.41	
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	46.86	14.72
<i>For Work In Restricted Working Space, Add</i>	8.84	
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)	50.61	15.43
<i>For Work In Restricted Working Space, Add</i>	9.26	
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)	62.36	16.13
<i>For Work In Restricted Working Space, Add</i>	9.68	
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)	68.38	16.83
<i>For Work In Restricted Working Space, Add</i>	10.10	
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)	90.86	18.93
<i>For Work In Restricted Working Space, Add</i>	11.36	
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)	115.51	23.84
<i>For Work In Restricted Working Space, Add</i>	14.30	
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)	154.28	28.04
<i>For Work In Restricted Working Space, Add</i>	16.83	
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260)		
Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	25.97	9.86
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	28.60	12.67
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	53.96	14.09
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	63.85	16.91
<i>For Work In Restricted Working Space, Add</i>	10.06	
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260)		
Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	24.63	9.86
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	25.97	10.56
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	28.60	11.97
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	31.07	12.67
<i>For Work In Restricted Working Space, Add</i>	7.41	
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	34.66	12.67
<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	40.50	14.09
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	53.96	14.79
<i>For Work In Restricted Working Space, Add</i>	8.80	
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	59.96	15.50
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23 05 29 00-0291)		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	16.76	7.04
<i>For Work In Restricted Working Space, Add</i>	4.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	17.49 4.45	8.45
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	18.32 4.70	8.45
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	19.36 4.97	8.45
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	20.49 5.28	9.86
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	23.52 5.63	9.86
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	28.69 6.04	9.86
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	36.67 6.50	9.86
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	43.41 7.61	12.67
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	53.06 8.45	14.09
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) <i>For Work In Restricted Working Space, Add</i>	66.04 9.29	15.50
23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.47 2.11	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	7.90 2.22	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	8.62 2.32	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.38 2.43	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	9.97 2.54	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap <i>For Work In Restricted Working Space, Add</i>	10.81 2.75	
23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	3.53 0.70	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.19 0.75	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D) <i>For Work In Restricted Working Space, Add</i>	4.51 0.81	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	4.85 0.88	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.21 0.96	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole <i>For Work In Restricted Working Space, Add</i>	5.81 1.06	
23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)		
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0318) Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.57 23.89 9.34	15.56
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.76 24.33 9.34	15.56
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.40 26.06 9.34	15.56
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318) Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	361.64 66.10 9.34	15.56
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	423.78 78.53 9.34	15.56
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.48 103.87 9.34	15.56
23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 29 Hangers and Supports for HVAC Piping and Equipment



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like 'Pipe Alignment Guide, 1" Insulation' and 'Pipe Alignment Guide, 1-1/2" Insulation'.



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0402	EA 12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12)	3,573.46	111.52
23 05 29 00-0403	EA 14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14)	3,629.84	139.40
23 05 29 00-0404	EA 16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16)	4,367.91	156.90
23 05 29 00-0405	EA 18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18)	4,710.02	174.41
23 05 29 00-0406	EA 20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20)	5,005.89	199.38
23 05 29 00-0407	EA 24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24)	6,306.26	209.43
23 05 29 00-0408	Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)		
23 05 29 00-0409	EA 1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2)	763.16	27.23
23 05 29 00-0410	EA 3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4)	764.45	27.88
23 05 29 00-0411	EA 1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1)	765.74	28.53
23 05 29 00-0412	EA 1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4)	767.04	29.18
23 05 29 00-0413	EA 1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2)	768.34	29.83
23 05 29 00-0414	EA 2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2)	883.96	32.42
23 05 29 00-0415	EA 2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2)	887.20	34.03
23 05 29 00-0416	EA 3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3)	889.14	35.01
23 05 29 00-0417	EA 4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4)	982.90	36.57
23 05 29 00-0418	EA 5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5)	1,003.12	46.68
23 05 29 00-0419	EA 6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6)	1,124.26	57.05
23 05 29 00-0420	EA 8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8)	1,913.55	71.32
23 05 29 00-0421	EA 10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10)	2,897.31	85.59
23 05 29 00-0422	EA 12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12)	3,578.64	114.12
23 05 29 00-0423	EA 14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14)	3,636.33	142.64
23 05 29 00-0424	EA 16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16)	4,375.69	160.80
23 05 29 00-0425	EA 18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18)	4,717.80	178.30
23 05 29 00-0426	EA 20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20)	5,015.62	204.24
23 05 29 00-0427	EA 24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24)	6,316.63	214.61
23 05 29 00-0428	Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)		
23 05 29 00-0429	EA 1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2)	764.45	27.88
23 05 29 00-0430	EA 3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4)	876.17	28.53
23 05 29 00-0431	EA 1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1)	877.47	29.18
23 05 29 00-0432	EA 1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4)	878.77	29.83
23 05 29 00-0433	EA 1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2)	880.07	30.47
23 05 29 00-0434	EA 2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2)	885.58	33.23
23 05 29 00-0435	EA 2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2)	888.89	34.88
23 05 29 00-0436	EA 3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3)	981.53	35.89
23 05 29 00-0437	EA 4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4)	984.97	37.61
23 05 29 00-0438	EA 5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5)	1,106.10	47.98
23 05 29 00-0439	EA 6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6)	1,887.62	58.35
23 05 29 00-0440	EA 8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8)	2,872.03	72.94
23 05 29 00-0441	EA 10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10)	3,526.49	87.73
23 05 29 00-0442	EA 12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12)	4,287.50	116.71
23 05 29 00-0443	EA 14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14)	4,346.51	146.21
23 05 29 00-0444	EA 16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16)	4,705.04	164.69
23 05 29 00-0445	EA 18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18)	4,972.82	182.84
23 05 29 00-0446	EA 20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20)	6,304.96	208.78
23 05 29 00-0447	Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)		
23 05 29 00-0448	EA 1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2)	876.17	28.53
23 05 29 00-0449	EA 3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4)	877.47	29.18
23 05 29 00-0450	EA 1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1)	878.77	29.83
23 05 29 00-0451	EA 1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4)	880.07	30.47
23 05 29 00-0452	EA 1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2)	881.36	31.12
23 05 29 00-0453	EA 2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2)	977.84	34.03
23 05 29 00-0454	EA 2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2)	981.08	35.66
23 05 29 00-0455	EA 3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3)	983.28	36.76
23 05 29 00-0456	EA 4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4)	1,087.29	38.58
23 05 29 00-0457	EA 5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5)	1,869.46	49.28
23 05 29 00-0458	EA 6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6)	1,890.21	59.65
23 05 29 00-0459	EA 8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8)	2,875.27	74.56
23 05 29 00-0460	EA 10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10)	3,531.28	90.12
23 05 29 00-0461	EA 12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12)	4,293.34	119.63
23 05 29 00-0462	EA 14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14)	4,659.45	149.13
23 05 29 00-0463	EA 16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16)	4,944.30	168.57
23 05 29 00-0464	EA 18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18)	6,263.47	188.03
23 05 29 00-0465	Sway Bracing For No Hub Pipe (23 05 29 00-0001)		
23 05 29 00-0466	EA 1-1/2" Sway Bracing	148.10	17.11
	For Work In Restricted Working Space, Add	10.24	
23 05 29 00-0467	EA 2" Sway Bracing	152.71	18.03
	For Work In Restricted Working Space, Add	10.81	
23 05 29 00-0468	EA 3" Sway Bracing	158.29	19.06
	For Work In Restricted Working Space, Add	11.44	
23 05 29 00-0469	EA 4" Sway Bracing	179.65	21.66
	For Work In Restricted Working Space, Add	12.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0470 EA 6" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	263.81 19.45	32.42
23 05 29 00-0471 EA 8" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	293.53 24.32	40.46
23 05 29 00-0472 EA 10" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	333.24 32.42	54.08
23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001) Note: Heights listed is total for base and adjustable saddle		
23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	262.34 7.78	12.97
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	269.27 8.56	14.27
23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	547.33 9.73	16.21
23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	657.53 10.89	18.16
23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	667.36 12.06	20.10
23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	737.80 13.61	22.70
23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	873.50 14.78	24.64
23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	885.21 15.95	26.58
23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	900.24 17.51	29.18
23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	940.20 19.06	31.77
23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,011.14 21.01	35.01
23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,044.28 23.34	38.90
23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,268.02 25.68	42.80
23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,389.36 28.79	47.98
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	1,941.63 31.90	53.17
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	2,411.67 35.01	58.35
23 05 29 00-0490 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) <i>For Work In Restricted Working Space, Add</i>	2,911.68 38.12	63.54
23 05 29 00-0491 Channel Mounted Cushion Clamp (23 05 29 00-0001) Note: Includes fastening into channel.		
23 05 29 00-0492 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	15.92	5.84
23 05 29 00-0493 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	16.77	6.48
23 05 29 00-0494 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	18.64	6.81
23 05 29 00-0495 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	19.99	7.13
23 05 29 00-0496 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	22.35	7.78
23 05 29 00-0497 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	25.08	8.11
23 05 29 00-0498 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	32.02	8.43
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	35.45	9.07
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	43.71	10.37
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	67.00	11.67
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe..... Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw	4.65	
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe..... Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw	4.75	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0505	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	4.83	
		Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0506	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	5.01	
		Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0507	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	4.79	
		Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0508	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	5.12	
		Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0509	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....	4.92	
		Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0510	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....	5.31	
		Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0511	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe	5.33	
		Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0512	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe	5.10	
		Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0513	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe	5.28	
		Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0514	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe	5.84	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0515	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe	5.30	
		Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0516	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe	5.66	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0517	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe	6.25	
		Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0518	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....	6.31	
		Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0519	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....	6.63	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0520	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe	7.28	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0521	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe	7.48	
		Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0522	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe	8.46	
		Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0523	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe	8.53	
		Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0524	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....	7.68	
		Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0525	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....	8.46	
		Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0526	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe	8.92	
		Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0527	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe	7.93	
		Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0528	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe	8.40	
		Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0529	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe	10.22	
		Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0530	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	7.88	
		Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0531	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	8.56	
		Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0532	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	10.62	
		Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0533		Rooftop Pipe Supports <small>(23 05 29 00-0001)</small>		
		Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0534		Rooftop Support Base <small>(23 05 29 00-0533)</small>		
23 05 29 00-0535	EA	4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....	42.63	10.56
23 05 29 00-0536	EA	4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....	59.18	14.09
23 05 29 00-0537		Rooftop Support Base With 14 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0538	EA	5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....	47.98	10.56
23 05 29 00-0539	EA	5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....	67.88	14.09
23 05 29 00-0540	EA	5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....	122.67	17.61
23 05 29 00-0541	EA	5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....	168.54	21.13
23 05 29 00-0542	EA	5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....	231.92	24.65
23 05 29 00-0543	EA	5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....	245.28	28.17
23 05 29 00-0544		Rooftop Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0545	EA	6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	82.09	14.09
23 05 29 00-0546	EA	6-7/16" x 6" x 20.2" Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....	129.01	17.61
23 05 29 00-0547	EA	6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....	171.08	21.13
23 05 29 00-0548	EA	6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....	232.07	24.65
23 05 29 00-0549	EA	6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....	258.98	21.13

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0550 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	136.72	21.13
23 05 29 00-0552 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	155.90	24.65
23 05 29 00-0553 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	162.89	28.17
23 05 29 00-0554 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	178.56	31.69
23 05 29 00-0555 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	226.84	35.21
23 05 29 00-0556 Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	98.92	14.09
23 05 29 00-0558 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	98.92	14.09
23 05 29 00-0559 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	99.45	14.09
23 05 29 00-0560 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	107.04	17.61
23 05 29 00-0561 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	103.15	17.61
23 05 29 00-0562 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	108.14	17.61
23 05 29 00-0563 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	124.38	14.09
23 05 29 00-0565 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	138.35	14.09
23 05 29 00-0566 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	181.08	17.61
23 05 29 00-0567 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	238.15	17.61
23 05 29 00-0568 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	322.92	17.61
23 05 29 00-0569 Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	156.07	21.13
23 05 29 00-0571 Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	103.41	17.61
23 05 29 00-0573 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	140.11	21.13
23 05 29 00-0574 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	156.55	24.65
23 05 29 00-0575 Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	368.87	28.17
23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	372.89	28.17
23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	386.99	28.17
23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	419.33	28.17
23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	361.70	28.17
23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	375.19	28.17
23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	389.28	28.17
23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	421.62	28.17
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS).....	377.73	28.17
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS).....	382.44	28.17
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	396.26	28.17
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	428.73	28.17
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	394.10	28.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	398.40	28.17
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	412.22	28.17
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	444.69	28.17
23 05 29 00-0592 Threaded Rod, Accessories And Attachments <small>(23 05 29)</small>		
23 05 29 00-0593 Threaded Rod And Rod Accessories <small>(23 05 29 00-0592)</small>		
23 05 29 00-0594 Threaded Rod <small>(23 05 29 00-0593)</small>		
Note: Fully threaded.		
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.78	0.88
For Galvanized, Add		0.81
For Zinc Plated, Add		0.58
For Work In Restricted Working Space, Add		0.53
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.09	0.95
For Galvanized, Add		1.29
For Zinc Plated, Add		0.92
For Work In Restricted Working Space, Add		0.56
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.93	0.98
For Galvanized, Add		2.00
For Zinc Plated, Add		1.42
For Work In Restricted Working Space, Add		0.58
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.06	1.00
For Galvanized, Add		3.62
For Zinc Plated, Add		2.58
For Work In Restricted Working Space, Add		0.60
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.03	1.04
For Galvanized, Add		3.98
For Zinc Plated, Add		2.84
For Work In Restricted Working Space, Add		0.62
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.32	1.17
For Galvanized, Add		5.59
For Zinc Plated, Add		3.98
For Work In Restricted Working Space, Add		0.70
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.25	1.31
For Galvanized, Add		7.06
For Zinc Plated, Add		5.03
For Work In Restricted Working Space, Add		0.78
23 05 29 00-0602 Rod Couplings <small>(23 05 29 00-0593)</small>		
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.23	
For Work In Restricted Working Space, Add		2.59
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut	11.59	
For Work In Restricted Working Space, Add		2.88
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.33	
For Work In Restricted Working Space, Add		3.24
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut	17.30	
For Work In Restricted Working Space, Add		3.54
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut	24.80	
For Work In Restricted Working Space, Add		3.89
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut	29.41	
For Work In Restricted Working Space, Add		4.58
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	54.74	
For Work In Restricted Working Space, Add		5.19
23 05 29 00-0610 Flat Washers <small>(23 05 29 00-0593)</small>		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.72	0.28
For Galvanized, Add		0.04
For Work In Restricted Working Space, Add		0.17
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.96	0.28
For Galvanized, Add		0.08
For Work In Restricted Working Space, Add		0.20
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.36	0.42
For Galvanized, Add		0.15
For Work In Restricted Working Space, Add		0.23
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.84	0.42
For Galvanized, Add		0.21
For Work In Restricted Working Space, Add		0.30
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.17	0.56
For Galvanized, Add		0.25
For Work In Restricted Working Space, Add		0.35
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.52	0.56
For Galvanized, Add		0.30
For Work In Restricted Working Space, Add		0.39
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.84	0.70
For Galvanized, Add		0.34
For Work In Restricted Working Space, Add		0.44

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0618			Hex Nuts <small>(23 05 29 00-0593)</small> Note: Grade 2 and zinc plated.		
23 05 29 00-0619	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.91	0.35
			<i>For Galvanized, Add</i>	0.03	
			<i>For Work In Restricted Working Space, Add</i>	0.24	
23 05 29 00-0620	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.15	0.35
			<i>For Galvanized, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	0.27	
23 05 29 00-0621	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.51	0.35
			<i>For Galvanized, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	0.28	
23 05 29 00-0622	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.76	0.70
			<i>For Galvanized, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	0.29	
23 05 29 00-0623	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.51	0.70
			<i>For Galvanized, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	0.31	
23 05 29 00-0624	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.17	0.70
			<i>For Galvanized, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	0.35	
23 05 29 00-0625	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.07	0.70
			<i>For Galvanized, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	0.39	
23 05 29 00-0626			Turnbuckle (Cooper B-Line B3202) <small>(23 05 29 00-0593)</small> Note: Type 13.		
23 05 29 00-0627	EA		3/8" Turnbuckle (Cooper B-Line B3202).....	33.53	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0628	EA		1/2" Turnbuckle (Cooper B-Line B3202).....	39.82	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0629	EA		5/8" Turnbuckle (Cooper B-Line B3202).....	42.89	8.45
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0630	EA		3/4" Turnbuckle (Cooper B-Line B3202).....	53.98	9.86
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0631	EA		7/8" Turnbuckle (Cooper B-Line B3202).....	69.88	10.56
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0632	EA		1" Turnbuckle (Cooper B-Line B3202).....	86.75	11.27
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0633	EA		1-1/8" Turnbuckle (Cooper B-Line B3202).....	120.36	12.68
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0634			Swivel Turnbuckle (Cooper B-Line B3224) <small>(23 05 29 00-0593)</small> Note: Type 15.		
23 05 29 00-0635	EA		3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	21.25	7.04
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0636	EA		1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	24.58	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0637	EA		5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	32.59	8.73
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0638	EA		3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	39.40	10.00
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0639			Forged Steel Clevis (Cooper B-Line B3201) <small>(23 05 29 00-0593)</small> Note: Type 14.		
23 05 29 00-0640	EA		3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	111.76	12.97
			<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0641	EA		4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	164.86	13.61
			<i>For Work In Restricted Working Space, Add</i>	8.19	
23 05 29 00-0642	EA		5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	178.31	14.27
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 05 29 00-0643	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	185.68	15.56
			<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0644	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	195.43	17.51
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 05 29 00-0645	EA		6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	325.66	22.70
			<i>For Work In Restricted Working Space, Add</i>	13.61	
23 05 29 00-0646	EA		5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	353.47	25.94
			<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0647	EA		7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	416.69	32.42
			<i>For Work In Restricted Working Space, Add</i>	19.45	
23 05 29 00-0648			Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0649	EA		3/8" Diameter x 8" Length Shank, Welded Eye Rod.....	33.35	7.60
			<i>For Work In Restricted Working Space, Add</i>	4.58	
23 05 29 00-0650	EA		3/8" Diameter x 10" Length Shank, Welded Eye Rod.....	34.41	7.74
			<i>For Work In Restricted Working Space, Add</i>	4.67	
23 05 29 00-0651	EA		3/8" Diameter x 12" Length Shank, Welded Eye Rod.....	35.49	7.88
			<i>For Work In Restricted Working Space, Add</i>	4.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	35.78 4.84	8.03
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	37.92 5.02	8.31
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	40.40 5.28	8.87
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	42.05 5.55	9.29
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.30 5.81	9.71
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.74 6.08	10.14
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	50.20 6.34	10.56
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	44.38 5.07	8.45
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	45.46 5.16	8.59
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	46.58 5.25	8.73
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	47.68 5.35	8.87
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	49.87 5.54	9.15
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	53.94 5.82	9.72
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	57.25 6.10	10.14
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.32 6.38	10.56
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.59 6.66	11.13
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.91 6.94	11.55
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	59.74 5.67	9.44
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.62 5.77	9.58
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	63.54 5.87	9.72
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.65 5.96	10.00
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	67.65 6.16	10.28
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	72.55 6.45	10.70
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.44 6.74	11.27
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	81.54 7.03	11.69
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	86.45 7.33	12.25
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.34 7.62	12.68
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	73.31 6.45	10.70
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	76.00 6.54	10.84
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	77.90 6.65	11.13
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	80.58 6.74	11.27
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	85.18 6.95	11.55
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.65 7.24	12.11
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	98.16 7.55	12.53
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	105.45 7.85	13.10
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	112.71 8.15	13.52
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	119.21 8.45	14.09
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	87.73 7.48	12.39
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	91.21 7.58	12.68
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	93.92 7.68	12.82
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	96.61 7.79	12.96
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	102.05 8.00	13.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod.....	110.91	13.80
For Work In Restricted Working Space, Add	8.31	
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod.....	119.02	14.38
For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod.....	127.92	14.94
For Work In Restricted Working Space, Add	8.94	
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod.....	136.02	15.36
For Work In Restricted Working Space, Add	9.25	
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod.....	144.14	15.92
For Work In Restricted Working Space, Add	9.56	
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod.....	109.82	14.94
For Work In Restricted Working Space, Add	8.92	
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod.....	113.36	15.08
For Work In Restricted Working Space, Add	9.04	
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod.....	116.90	15.22
For Work In Restricted Working Space, Add	9.16	
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod.....	120.42	15.50
For Work In Restricted Working Space, Add	9.27	
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod.....	127.46	15.92
For Work In Restricted Working Space, Add	9.51	
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod.....	138.07	16.49
For Work In Restricted Working Space, Add	9.86	
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod.....	148.69	17.05
For Work In Restricted Working Space, Add	10.22	
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod.....	160.02	17.61
For Work In Restricted Working Space, Add	10.57	
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod.....	170.63	18.18
For Work In Restricted Working Space, Add	10.92	
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod.....	181.24	18.74
For Work In Restricted Working Space, Add	11.27	
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0593)		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	69.30	10.28
For Work In Restricted Working Space, Add	6.20	
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	71.17	10.56
For Work In Restricted Working Space, Add	6.37	
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	73.04	10.98
For Work In Restricted Working Space, Add	6.55	
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	73.93	11.40
For Work In Restricted Working Space, Add	6.82	
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	77.40	11.83
For Work In Restricted Working Space, Add	7.08	
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	81.82	12.67
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	84.86	13.52
For Work In Restricted Working Space, Add	8.13	
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	90.57	14.51
For Work In Restricted Working Space, Add	8.66	
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	89.41	11.41
For Work In Restricted Working Space, Add	6.85	
23 05 29 00-0719 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	91.33	11.69
For Work In Restricted Working Space, Add	7.04	
23 05 29 00-0720 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	93.30	11.97
For Work In Restricted Working Space, Add	7.22	
23 05 29 00-0721 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	95.54	12.53
For Work In Restricted Working Space, Add	7.51	
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	99.07	12.96
For Work In Restricted Working Space, Add	7.79	
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	106.19	13.94
For Work In Restricted Working Space, Add	8.35	
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	112.00	14.80
For Work In Restricted Working Space, Add	8.91	
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	119.12	15.78
For Work In Restricted Working Space, Add	9.47	
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	119.50	12.68
For Work In Restricted Working Space, Add	7.65	
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	122.73	13.10
For Work In Restricted Working Space, Add	7.84	
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	126.02	13.38
For Work In Restricted Working Space, Add	8.03	
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	128.31	13.94
For Work In Restricted Working Space, Add	8.33	
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	133.21	14.38
For Work In Restricted Working Space, Add	8.62	
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	141.69	15.36
For Work In Restricted Working Space, Add	9.20	
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	150.16	16.35
For Work In Restricted Working Space, Add	9.78	
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	157.34	17.33
For Work In Restricted Working Space, Add	10.37	
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	150.96	14.38
For Work In Restricted Working Space, Add	8.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	155.61 8.86	14.80
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	158.86 9.06	15.08
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	163.79 9.36	15.64
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	171.33 9.66	16.07
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	182.46 10.26	17.05
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	193.63 10.86	18.04
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	206.12 11.46	19.16
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	181.29 10.01	16.63
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	187.23 10.22	17.05
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	191.86 10.43	17.33
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	196.82 10.74	17.90
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	205.74 11.05	18.46
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	220.90 11.68	19.45
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	234.74 12.30	20.57
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.91 12.93	21.56
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	230.84 11.93	19.87
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	236.87 12.17	20.29
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	242.89 12.40	20.71
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.30 12.75	21.28
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	260.90 13.10	21.84
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	278.97 13.81	22.97
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	297.06 14.51	24.23
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	316.33 15.22	25.36
23 05 29 00-0758 Attachments <small>(23 05 29 00-0592)</small>		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 22.</i>		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	49.10 7.87	13.11
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	52.28 8.29	13.77
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	55.59 8.75	14.56
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	69.16 9.26	15.48
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	81.79 9.84	16.40
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	112.29 11.24	18.76
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	155.18 11.81	19.67
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 23. Top or bottom flange mount.</i>		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	20.41 5.28	7.18
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	23.62 5.63	9.15
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	26.43 6.04	9.86
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	32.60 6.50	10.56
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	44.70 7.04	11.27
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) <small>(23 05 29 00-0758)</small>		
<i>Note: Type 21. For attaching threaded rod centered under beam flanges.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0774	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	48.02	9.86
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0775	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	67.69	12.68
			<i>For Work In Restricted Working Space, Add</i>	7.68	
23 05 29 00-0776	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	93.97	14.09
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0777	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	111.68	15.50
			<i>For Work In Restricted Working Space, Add</i>	9.39	
23 05 29 00-0778	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	257.13	16.91
			<i>For Work In Restricted Working Space, Add</i>	10.57	
23 05 29 00-0779			Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)		
			Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780	EA		1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	16.55	3.52
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0781	EA		3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	17.80	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0782	EA		1" Pipe Size, Steel U-Bolt (B-Line B-3188).....	19.06	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.70	
23 05 29 00-0783	EA		1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	21.27	4.22
			<i>For Work In Restricted Working Space, Add</i>	4.97	
23 05 29 00-0784	EA		1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	22.13	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0785	EA		2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	23.66	4.93
			<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0786	EA		2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	31.81	4.93
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 05 29 00-0787	EA		3" Pipe Size, Steel U-Bolt (B-Line B-3188).....	34.91	5.63
			<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0788	EA		4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	41.28	6.34
			<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0789			Copper Standoff Brackets With Flange (23 05 29 00-0758)		
			Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790	EA		Clamp Size 1/2", Copper Standoff Brackets With Flange.....	42.48	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0791	EA		Clamp Size 3/4", Copper Standoff Brackets With Flange.....	42.61	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0792	EA		Clamp Size 1", Copper Standoff Brackets With Flange.....	42.75	20.15
			<i>For Work In Restricted Working Space, Add</i>	12.08	
23 05 29 00-0793	EA		Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....	45.46	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0794	EA		Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....	45.73	21.42
			<i>For Work In Restricted Working Space, Add</i>	12.81	
23 05 29 00-0795			Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)		
			Note: Type 16.		
23 05 29 00-0796	EA		3/8" Rod Size, Malleable Iron Eye Socket.....	10.46	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0797	EA		1/2" Rod Size, Malleable Iron Eye Socket.....	13.40	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0798	EA		5/8" Rod Size, Malleable Iron Eye Socket.....	21.63	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0799	EA		3/4" Rod Size, Malleable Iron Eye Socket.....	29.66	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0800	EA		7/8" Rod Size, Malleable Iron Eye Socket.....	32.36	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0801			Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)		
			Note: Type 17.		
23 05 29 00-0802	EA		3/8" Rod Size, Steel Weldless Eye Nut.....	30.71	2.11
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 05 29 00-0803	EA		1/2" Rod Size, Steel Weldless Eye Nut.....	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0804	EA		5/8" Rod Size, Steel Weldless Eye Nut.....	32.13	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.71	
23 05 29 00-0805	EA		3/4" Rod Size, Steel Weldless Eye Nut.....	32.07	2.82
			<i>For Work In Restricted Working Space, Add</i>	1.69	
23 05 29 00-0806	EA		7/8" Rod Size, Steel Weldless Eye Nut.....	60.90	3.10
			<i>For Work In Restricted Working Space, Add</i>	1.90	
23 05 29 00-0807	EA		1" Rod Size, Steel Weldless Eye Nut.....	61.60	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
23 05 29 00-0808			Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)		
			Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809	EA		3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	24.34	6.55
			<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0810	EA		1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	28.83	7.22
			<i>For Work In Restricted Working Space, Add</i>	4.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.47 5.02	8.53
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	67.72 5.90	9.84
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	25.38 3.93	6.55
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	30.30 4.34	7.22
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	34.37 4.77	7.87
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	49.34 5.02	8.53
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	74.34 5.90	9.84
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	27.80 3.93	6.55
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	33.02 4.34	7.22
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	40.76 4.77	7.87
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	56.59 5.02	8.53
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	88.50 5.90	9.84
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758) Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	22.13 5.28	9.15
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.49 5.63	9.15
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	31.57 6.04	9.86
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	51.27 6.50	10.56
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	59.37 7.04	11.97
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758) Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.62 0.88	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.78 0.91	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.22 0.95	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.00 0.98	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.32 1.02	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.27 1.06	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.84 1.06	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.10 1.10	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.87 1.15	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.74 1.20	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.88 1.26	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	8.44 1.32	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.47 1.17	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.45 1.20	
23 05 29 00-0845 Hanger Strap (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap	6.70	
23 05 29 00-0847 Shields And Saddles (23 05 29)		
23 05 29 00-0848 Insulation Protection Shield (23 05 29 00-0847) Note: Type 40.		
23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0848)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0850	EA	1-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.34	3.38
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0851	EA	2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.63	3.42
			<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0852	EA	2-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.11	3.47
			<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0853	EA	3"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	21.02	3.51
			<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0854	EA	4"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	23.20	3.59
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0855	EA	6"	Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	28.19	3.68
			<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0856	EA	8"	Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	32.69	3.76
			<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0857	EA	10"	Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	39.84	3.84
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0858	EA	12"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	50.96	3.89
			<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0859	EA	14"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	55.45	3.93
			<i>For Work In Restricted Working Space, Add</i>	3.93	
23 05 29 00-0860	EA	16"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	76.07	3.97
			<i>For Work In Restricted Working Space, Add</i>	3.97	
23 05 29 00-0861	EA	18"	Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	85.38	4.01
			<i>For Work In Restricted Working Space, Add</i>	4.01	
23 05 29 00-0862	EA	20"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	157.78	4.05
			<i>For Work In Restricted Working Space, Add</i>	4.06	
23 05 29 00-0863	EA	24"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	171.46	4.14
			<i>For Work In Restricted Working Space, Add</i>	4.14	
23 05 29 00-0864	EA	30"	Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	207.10	4.23
			<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0865			Insulation Protection Shield (Cooper B-Line B3154) <small>(23 05 29 00-0848)</small>		
23 05 29 00-0866	EA	1-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.13	3.38
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 05 29 00-0867	EA	2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.37	3.42
			<i>For Work In Restricted Working Space, Add</i>	3.42	
23 05 29 00-0868	EA	2-1/2"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.75	3.47
			<i>For Work In Restricted Working Space, Add</i>	3.47	
23 05 29 00-0869	EA	3"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.46	3.51
			<i>For Work In Restricted Working Space, Add</i>	3.51	
23 05 29 00-0870	EA	4"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	20.12	3.59
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 05 29 00-0871	EA	6"	Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	23.81	3.68
			<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0872	EA	8"	Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	25.55	3.76
			<i>For Work In Restricted Working Space, Add</i>	3.76	
23 05 29 00-0873	EA	10"	Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	32.41	3.84
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 05 29 00-0874	EA	12"	Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	38.76	3.89
			<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0875			Pipe Covering Protection Saddle <small>(23 05 29 00-0847)</small>		
			Note: Sizes are pipe sizes.		
23 05 29 00-0876			Saddle, For 1" Insulation (Cooper B-Line B3160) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0877	EA	3/4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.59	4.64
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 05 29 00-0878	EA	1"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.72	4.68
			<i>For Work In Restricted Working Space, Add</i>	4.68	
23 05 29 00-0879	EA	1-1/4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.85	4.72
			<i>For Work In Restricted Working Space, Add</i>	4.72	
23 05 29 00-0880	EA	1-1/2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.31	4.80
			<i>For Work In Restricted Working Space, Add</i>	4.80	
23 05 29 00-0881	EA	2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	31.43	4.84
			<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0882	EA	2-1/2"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	32.47	4.92
			<i>For Work In Restricted Working Space, Add</i>	4.92	
23 05 29 00-0883	EA	3"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	36.06	5.00
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 05 29 00-0884	EA	4"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	40.43	5.08
			<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0885	EA	6"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	45.41	5.23
			<i>For Work In Restricted Working Space, Add</i>	5.23	
23 05 29 00-0886	EA	8"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	55.21	5.43
			<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0887	EA	10"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	61.65	5.51
			<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0888	EA	12"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	72.99	5.63
			<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0889	EA	14"	Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	79.65	5.71
			<i>For Work In Restricted Working Space, Add</i>	5.71	



		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0890		Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0891	EA	3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.34	4.64
		<i>For Work In Restricted Working Space, Add</i>	4.64	
23 05 29 00-0892	EA	1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.47	4.68
		<i>For Work In Restricted Working Space, Add</i>	4.68	
23 05 29 00-0893	EA	1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	33.60	4.72
		<i>For Work In Restricted Working Space, Add</i>	4.72	
23 05 29 00-0894	EA	1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	34.82	4.80
		<i>For Work In Restricted Working Space, Add</i>	4.80	
23 05 29 00-0895	EA	2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.54	4.84
		<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0896	EA	2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	40.42	4.92
		<i>For Work In Restricted Working Space, Add</i>	4.92	
23 05 29 00-0897	EA	3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	41.10	5.00
		<i>For Work In Restricted Working Space, Add</i>	5.00	
23 05 29 00-0898	EA	4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	46.63	5.00
		<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0899	EA	6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	52.43	5.23
		<i>For Work In Restricted Working Space, Add</i>	5.23	
23 05 29 00-0900	EA	8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	62.09	5.43
		<i>For Work In Restricted Working Space, Add</i>	5.43	
23 05 29 00-0901	EA	10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	69.79	5.51
		<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0902	EA	12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	83.03	5.63
		<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0903	EA	14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	90.92	5.71
		<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0904		Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0905	EA	3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	35.67	4.87
		<i>For Work In Restricted Working Space, Add</i>	4.88	
23 05 29 00-0906	EA	1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	35.81	4.92
		<i>For Work In Restricted Working Space, Add</i>	4.92	
23 05 29 00-0907	EA	1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	37.70	4.96
		<i>For Work In Restricted Working Space, Add</i>	4.96	
23 05 29 00-0908	EA	1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	38.84	5.04
		<i>For Work In Restricted Working Space, Add</i>	5.04	
23 05 29 00-0909	EA	2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	39.85	5.08
		<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0910	EA	2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	40.12	5.17
		<i>For Work In Restricted Working Space, Add</i>	5.16	
23 05 29 00-0911	EA	3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	42.38	5.25
		<i>For Work In Restricted Working Space, Add</i>	5.23	
23 05 29 00-0912	EA	4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	44.67	5.32
		<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0913	EA	6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	56.95	5.50
		<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0914	EA	8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	64.56	5.71
		<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0915	EA	10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	67.79	5.78
		<i>For Work In Restricted Working Space, Add</i>	5.79	
23 05 29 00-0916	EA	12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	91.46	5.90
		<i>For Work In Restricted Working Space, Add</i>	5.90	
23 05 29 00-0917	EA	14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	101.29	5.99
		<i>For Work In Restricted Working Space, Add</i>	5.98	
23 05 29 00-0918	EA	16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	111.39	6.14
		<i>For Work In Restricted Working Space, Add</i>	6.14	
23 05 29 00-0919	EA	18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	121.47	6.30
		<i>For Work In Restricted Working Space, Add</i>	6.30	
23 05 29 00-0920	EA	20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	133.21	6.45
		<i>For Work In Restricted Working Space, Add</i>	6.45	
23 05 29 00-0921	EA	24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	152.56	6.62
		<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0922		Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0923	EA	1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	39.97	5.08
		<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0924	EA	1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	42.21	5.16
		<i>For Work In Restricted Working Space, Add</i>	5.16	
23 05 29 00-0925	EA	2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	43.32	5.21
		<i>For Work In Restricted Working Space, Add</i>	5.19	
23 05 29 00-0926	EA	2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.57	5.28
		<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0927	EA	3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	44.96	5.37
		<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0928	EA	4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	52.30	5.46
		<i>For Work In Restricted Working Space, Add</i>	5.47	
23 05 29 00-0929	EA	6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	59.90	5.63
		<i>For Work In Restricted Working Space, Add</i>	5.63	
23 05 29 00-0930	EA	8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	69.80	5.84
		<i>For Work In Restricted Working Space, Add</i>	5.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0931	EA		10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	74.81 5.94	5.93
23 05 29 00-0932	EA		12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	93.83 6.06	6.05
23 05 29 00-0933	EA		14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	111.47 6.14	6.14
23 05 29 00-0934	EA		16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	129.36 6.30	6.28
23 05 29 00-0935	EA		18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	137.43 6.45	6.44
23 05 29 00-0936	EA		20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	146.41 6.61	6.62
23 05 29 00-0937	EA		24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)..... <i>For Work In Restricted Working Space, Add</i>	155.40 6.77	6.77
23 05 29 00-0938			Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939	EA		2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	44.82 5.31	5.32
23 05 29 00-0940	EA		2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	48.95 5.43	5.41
23 05 29 00-0941	EA		3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	51.08 5.51	5.50
23 05 29 00-0942	EA		4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	53.19 5.59	5.59
23 05 29 00-0943	EA		6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	61.18 5.75	5.76
23 05 29 00-0944	EA		8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	76.90 5.98	5.96
23 05 29 00-0945	EA		10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	83.39 6.06	6.06
23 05 29 00-0946	EA		12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	108.78 6.18	6.19
23 05 29 00-0947	EA		14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	130.04 6.30	6.28
23 05 29 00-0948	EA		16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	151.30 6.41	6.43
23 05 29 00-0949	EA		18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	154.19 6.61	6.59
23 05 29 00-0950	EA		20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	156.97 6.77	6.76
23 05 29 00-0951	EA		24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	199.51 6.93	6.93
23 05 29 00-0952			Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953	EA		2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	50.64 5.43	5.44
23 05 29 00-0954	EA		2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	55.49 5.55	5.54
23 05 29 00-0955	EA		3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	58.00 5.63	5.63
23 05 29 00-0956	EA		4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	60.62 5.71	5.71
23 05 29 00-0957	EA		6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	74.16 5.90	5.89
23 05 29 00-0958	EA		8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	87.71 6.10	6.12
23 05 29 00-0959	EA		10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	90.69 6.22	6.21
23 05 29 00-0960	EA		12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	116.23 6.34	6.34
23 05 29 00-0961	EA		14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	141.34 6.41	6.41
23 05 29 00-0962	EA		16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	166.71 6.57	6.58
23 05 29 00-0963	EA		18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	204.14 6.73	6.75
23 05 29 00-0964	EA		20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	241.39 6.93	6.91
23 05 29 00-0965	EA		24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	258.29 7.08	7.08
23 05 29 00-0966	EA		30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	271.87 7.28	7.27
23 05 29 00-0967	EA		36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	281.90 7.44	7.45
23 05 29 00-0968			Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0847)		
23 05 29 00-0969	EA		2" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	114.50	17.61
23 05 29 00-0970	EA		3" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	121.38	20.43
23 05 29 00-0971	EA		4" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	147.49	23.25
23 05 29 00-0972	EA		5" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	153.82	25.36



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 29 00-0973 EA	6" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	170.68	28.18
	23 05 29 00-0974 EA	8" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	194.14	35.22
	23 05 29 00-0975 EA	10" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	253.90	47.20
	23 05 29 00-0976 EA	12" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	314.11	70.45
23 05 29 00-0977	Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0978 EA	2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	141.59	17.61
	23 05 29 00-0979 EA	3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	146.62	20.43
	23 05 29 00-0980 EA	3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	157.12	21.84
	23 05 29 00-0981 EA	4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	160.40	23.25
	23 05 29 00-0982 EA	5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	168.66	25.36
	23 05 29 00-0983 EA	6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	178.85	28.18
	23 05 29 00-0984 EA	8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	227.10	35.22
	23 05 29 00-0985 EA	10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	306.35	47.20
	23 05 29 00-0986 EA	12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	400.95	70.45
23 05 29 00-0987	Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small>			
	23 05 29 00-0988 EA	2-1/2" Pipe Saddle Support (Cooper B-Line B3095)	72.92	17.61
	23 05 29 00-0989 EA	3" Pipe Saddle Support (Cooper B-Line B3095)	77.95	20.43
	23 05 29 00-0990 EA	3-1/2" Pipe Saddle Support (Cooper B-Line B3095)	117.30	21.84
	23 05 29 00-0991 EA	4" Pipe Saddle Support (Cooper B-Line B3095)	120.58	23.25
	23 05 29 00-0992 EA	5" Pipe Saddle Support (Cooper B-Line B3095)	132.56	25.36
	23 05 29 00-0993 EA	6" Pipe Saddle Support (Cooper B-Line B3095)	146.95	28.18
	23 05 29 00-0994 EA	8" Pipe Saddle Support (Cooper B-Line B3095)	168.64	35.22
	23 05 29 00-0995 EA	10" Pipe Saddle Support (Cooper B-Line B3095)	196.89	47.20
	23 05 29 00-0996 EA	12" Pipe Saddle Support (Cooper B-Line B3095)	249.02	70.45
23 05 29 00-0997	360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small>			
		Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0998	1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-0999 EA	1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.74	8.53
	23 05 29 00-1000 EA	3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.01	8.53
	23 05 29 00-1001 EA	1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.08	8.53
	23 05 29 00-1002 EA	1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.35	8.53
	23 05 29 00-1003 EA	1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.69	9.06
	23 05 29 00-1004 EA	2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.58	9.33
	23 05 29 00-1005 EA	2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.60	9.72
	23 05 29 00-1006 EA	3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.70	10.11
	23 05 29 00-1007 EA	4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.53	10.50
	23 05 29 00-1008 EA	6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.08	9.06
	23 05 29 00-1009 EA	8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.18	11.82
	23 05 29 00-1010 EA	10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	46.28	13.92
	23 05 29 00-1011 EA	12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.92	16.15
	23 05 29 00-1012 EA	14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	58.86	16.68
23 05 29 00-1013	1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1014 EA	1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.72	6.44
	23 05 29 00-1015 EA	3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.06	6.44
	23 05 29 00-1016 EA	1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.41	6.57
	23 05 29 00-1017 EA	1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.94	6.70
	23 05 29 00-1018 EA	1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.44	6.70
	23 05 29 00-1019 EA	2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.32	6.96
	23 05 29 00-1020 EA	2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.38	7.22
	23 05 29 00-1021 EA	3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.94	7.35
	23 05 29 00-1022 EA	4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.97	8.01
	23 05 29 00-1023 EA	6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.13	13.78
	23 05 29 00-1024 EA	8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.77	10.37
	23 05 29 00-1025 EA	10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.12	12.21
	23 05 29 00-1026 EA	12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	42.26	14.05
	23 05 29 00-1027 EA	14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	50.02	16.94
23 05 29 00-1028	2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>			
	23 05 29 00-1029 EA	1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.09	7.35
	23 05 29 00-1030 EA	3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.31	7.35
	23 05 29 00-1031 EA	1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.96	7.49
	23 05 29 00-1032 EA	1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.53	7.62
	23 05 29 00-1033 EA	1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.13	7.75
	23 05 29 00-1034 EA	2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.02	8.01
	23 05 29 00-1035 EA	2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.27
	23 05 29 00-1036 EA	3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.38	8.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.85	9.06
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.96	10.24
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.01	17.47
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.39	20.22
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.49	23.90
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.56	26.79
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	83.42	30.20
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.99	35.45
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	106.60	39.40
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	120.50	44.65
23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.43	8.53
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.23	8.66
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.81	8.80
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.40	8.80
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	27.50	9.20
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.87	9.46
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.18	9.85
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.97	10.37
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.72	11.82
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	48.30	13.13
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.26	15.10
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.37	18.77
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	74.47	20.61
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.30	26.26
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.48	27.58
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	108.56	31.52
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	128.48	38.08
23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.48	8.80
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	52.74	9.20
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	54.64	9.20
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	55.92	9.46
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.40	9.72
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	59.05	9.85
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	62.08	10.11
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	64.77	10.76
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.17	11.16
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	81.39	13.65
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	104.01	14.97
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	123.48	15.76
23 05 29 00-1079 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	142.37	20.35
23 05 29 00-1080 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	159.98	21.67
23 05 29 00-1081 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	192.80	28.89
23 05 29 00-1082 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	207.50	31.52
23 05 29 00-1083 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	234.87	34.15
23 05 29 00-1084 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	276.02	42.02
23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1086 EA 1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.19	8.53
23 05 29 00-1087 EA 3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.23	10.37
23 05 29 00-1088 EA 1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.32	10.37
23 05 29 00-1089 EA 1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.97	10.50
23 05 29 00-1090 EA 1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	31.79	10.63
23 05 29 00-1091 EA 2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.93	11.03
23 05 29 00-1092 EA 2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.62	11.43
23 05 29 00-1093 EA 3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	36.10	11.82
23 05 29 00-1094 EA 4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.60	12.48
23 05 29 00-1095 EA 6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	45.26	14.19
23 05 29 00-1096 EA 8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	57.93	15.76
23 05 29 00-1097 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	68.71	18.12
23 05 29 00-1098 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	79.63	22.59
23 05 29 00-1099 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	89.37	24.69
23 05 29 00-1100 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	107.16	31.52
23 05 29 00-1101 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	114.59	33.09
23 05 29 00-1102 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	130.33	37.82
23 05 29 00-1103 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	154.19	45.70



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1104				4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1105	EA			1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.59	11.56
23 05 29 00-1106	EA			3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.93	11.56
23 05 29 00-1107	EA			1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.04	11.69
23 05 29 00-1108	EA			1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.91	11.82
23 05 29 00-1109	EA			1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.52	11.82
23 05 29 00-1110	EA			2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.54	12.61
23 05 29 00-1111	EA			2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.92	12.74
23 05 29 00-1112	EA			3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.74	13.26
23 05 29 00-1113	EA			4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.53	14.05
23 05 29 00-1114	EA			6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.90	15.89
23 05 29 00-1115	EA			8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.19	17.20
23 05 29 00-1116	EA			10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.32	20.48
23 05 29 00-1117	EA			12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.61	25.47
23 05 29 00-1118	EA			14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	100.57	27.71
23 05 29 00-1119	EA			16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.63	35.45
23 05 29 00-1120	EA			18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	128.84	37.16
23 05 29 00-1121	EA			20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.17	42.55
23 05 29 00-1122	EA			24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	173.50	51.48
23 05 29 00-1123	EA			26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	198.88	60.54
23 05 29 00-1124	EA			28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	227.64	71.43
23 05 29 00-1125	EA			30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	259.41	84.44
23 05 29 00-1126	EA			42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	376.14	130.40
23 05 29 00-1127	EA			44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	406.71	143.53
23 05 29 00-1128	EA			46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	434.40	154.95
23 05 29 00-1129				Equipment Housekeeping Pads <small>(23 05 29)</small>		
23 05 29 00-1130				Molded Plastic Condenser Pad <small>(23 05 29 00-1129)</small>		
23 05 29 00-1131	EA			30" Round Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1132	EA			30" Octagon Molded Plastic Pad.....	129.22	17.61
23 05 29 00-1133	EA			30" x 30" Molded Plastic Pad.....	123.42	17.61
23 05 29 00-1134	EA			36" x 36" Molded Plastic Pad.....	158.18	17.61
23 05 29 00-1135	EA			36" x 48" Molded Plastic Pad.....	223.23	17.61
23 05 29 00-1136				Inertia Base <small>(23 05 29 00-1129)</small>		
				Note: Includes spring isolators.		
23 05 29 00-1137	EA			Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	1,694.76	
23 05 29 00-1138	EA			>12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	2,044.88	
23 05 29 00-1139	EA			>16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	2,342.05	
23 05 29 00-1140	EA			>20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	2,674.53	
23 05 29 00-1141				Hanger Assemblies <small>(23 05 29)</small>		
				Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1142	EA			1/2" Standard Duty Clevis Pipe Hanger Assembly.....	58.70	21.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	14.09	
23 05 29 00-1143	EA			3/4" Standard Duty Clevis Pipe Hanger Assembly.....	61.30	23.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	14.87	
23 05 29 00-1144	EA			1" Standard Duty Clevis Pipe Hanger Assembly.....	63.31	24.54
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	15.45	
23 05 29 00-1145	EA			1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	64.44	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	15.68	
23 05 29 00-1146	EA			1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	64.75	24.57
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	15.68	
23 05 29 00-1147	EA			2" Standard Duty Clevis Pipe Hanger Assembly.....	66.13	24.77
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	15.91	
23 05 29 00-1148	EA			2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	70.92	24.20
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	14.79	
23 05 29 00-1149	EA			3" Standard Duty Clevis Pipe Hanger Assembly.....	73.25	24.90
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	15.02	
23 05 29 00-1150	EA			4" Standard Duty Clevis Pipe Hanger Assembly.....	87.96	28.11
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	16.59	
23 05 29 00-1151	EA			6" Standard Duty Clevis Pipe Hanger Assembly.....	129.53	36.32
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	21.79	
23 05 29 00-1152	EA			8" Standard Duty Clevis Pipe Hanger Assembly.....	151.37	42.14
				Note: Includes hanger, rod, nuts, washers and clamp.		
				For Work In Restricted Working Space, Add	25.28	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	207.63 31.71	53.52
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	229.26 34.62	57.60
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices	3.27	2.05
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices	4.26	2.56
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices	5.23	3.06
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices.....	7.20	3.81
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices	8.03	4.09
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices	10.71	4.59
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices	13.32	5.60
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices	17.20	6.56
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices	20.53	7.67
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices	8.59	4.55
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices	14.61	6.54
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices	18.22	7.85
23 05 29 00-1170 LF C5 x 6.7, 5" Wide Channels For Hanger Devices	21.83	9.16
23 05 29 00-1171 LF C6 x 8.2, 6" Wide Channels For Hanger Devices	26.43	11.00
23 05 29 00-1172 LF C7 x 9.8, 7" Wide Channels For Hanger Devices	31.52	13.09
23 05 29 00-1173 LF C8 x 11.5, 8" Wide Channels For Hanger Devices	35.70	14.41
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	9.65	6.40
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	11.61	7.57
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices	16.47	8.73
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	21.22	11.64
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices	28.97	13.96
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	36.33	18.04
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	16.49	8.73
23 05 29 00-1183 LF 2-1/16" x 3" x 2-11/16" Structural Zee For Hanger Devices	19.71	8.73
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices	28.78	8.73
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices	36.27	8.73
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	44.09	8.73
23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices.....	20.63	12.81
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices.....	23.68	13.96
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices.....	27.28	15.13
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices.....	29.82	16.88
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices.....	35.32	18.04
23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices.....	38.23	19.20
23 05 33 Heat Tracing for HVAC Piping (23 05) See CSI section 23 83 13 00-0000 for heat tracing cables.		
23 05 48 Vibration and Seismic Controls for HVAC (23 05)		
23 05 48 13 Vibration Controls for HVAC (23 05 48)		
23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator.....	115.55	39.43
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator.....	121.52	39.43
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator	141.32	39.43
23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13) Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	553.40	39.43
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	626.50	39.43
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	663.05	39.43
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	809.25	39.43
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	845.80	39.43
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	617.36	39.43



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0012	EA			To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	681.33	39.43
23 05 48 13-0013	EA			To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	727.01	39.43
23 05 48 13-0014	EA			To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	937.17	39.43
23 05 48 13-0015	EA			To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,019.41	39.43
23 05 48 13-0016	EA			To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,211.30	39.43
23 05 48 13-0017				Vibration Isolators (23 05 48 13)		
23 05 48 13-0018				Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0019	EA			50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	138.36	25.36
23 05 48 13-0020	EA			600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	277.37	28.18
23 05 48 13-0021				Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)		
23 05 48 13-0022	EA			45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	80.75	21.14
23 05 48 13-0023	EA			130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	103.53	25.36
23 05 48 13-0024				Spring Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0025	EA			50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size.....	92.32	25.36
23 05 48 13-0026				Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)		
23 05 48 13-0027	EA			45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	170.22	47.91
23 05 48 13-0028	EA			130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	223.07	47.91
23 05 48 13-0029	EA			550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	404.45	47.91
23 05 48 13-0030				Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)		
				Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.		
23 05 48 13-0031	EA			50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	147.95	47.91
23 05 48 13-0032	EA			>1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	151.89	47.91
23 05 48 13-0033				Open Double Spring Type Vibration Isolator (23 05 48 13-0017)		
				Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.		
23 05 48 13-0034	EA			150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator	107.78	23.95
23 05 48 13-0035	EA			500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	107.78	23.95
23 05 48 13-0036	EA			1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	120.91	23.95
23 05 48 13-0037	EA			1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	120.91	23.95
23 05 48 13-0038	EA			2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	180.29	23.95
23 05 48 13-0039				Isolation Pads (23 05 48 13-0017)		
23 05 48 13-0040				Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0041	EA			2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	8.16	3.52
23 05 48 13-0042	EA			3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	10.03	3.66
23 05 48 13-0043	EA			4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	12.19	3.80
23 05 48 13-0044	EA			12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	42.81	4.37
23 05 48 13-0045	EA			18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	80.16	4.93
23 05 48 13-0046				Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0047	EA			6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	82.32	3.52
23 05 48 13-0048	EA			6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	90.62	3.52
23 05 48 13-0049				Neoprene Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0050	EA			2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad.....	7.73	3.52
23 05 48 13-0051	EA			3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad.....	8.64	3.52
23 05 48 13-0052	EA			4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad.....	10.06	3.52
23 05 48 13-0053	EA			12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad.....	42.15	4.23
23 05 48 13-0054	EA			18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad.....	75.48	4.93
23 05 48 13-0055				Threaded Flexible Bronze Hose Connectors (23 05 48 13)		
				Note: Includes hex threaded nipple ends.		
23 05 48 13-0056	EA			3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	79.37	22.54
23 05 48 13-0057	EA			1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	95.17	30.99
23 05 48 13-0058	EA			3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	116.55	38.04
23 05 48 13-0059	EA			1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	136.10	45.09
23 05 48 13-0060	EA			1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	156.57	59.17
23 05 48 13-0061	EA			1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	176.76	62.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0062	EA		2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	234.67	74.67
23 05 48 13-0063	EA		2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	319.37	116.37
23 05 48 13-0064			Weld End Flexible Hose Connectors <small>(23 05 48 13)</small>		
23 05 48 13-0065	EA		1/2" Diameter x 10" Flexible Hose Connection, Weld Ends	288.16	80.87
23 05 48 13-0066	EA		3/4" Diameter x 10" Flexible Hose Connection, Weld Ends	335.81	88.76
23 05 48 13-0067	EA		1" Diameter x 10" Flexible Hose Connection, Weld Ends	377.52	93.97
23 05 48 13-0068	EA		1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends	422.48	107.08
23 05 48 13-0069	EA		1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends	478.23	115.53
23 05 48 13-0070	EA		2" Diameter x 14" Flexible Hose Connection, Weld Ends	601.24	150.32
23 05 48 13-0071	EA		2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends	893.79	169.07
23 05 48 13-0072	EA		3" Diameter x 16" Flexible Hose Connection, Weld Ends	1,100.18	190.20
23 05 48 13-0073	EA		4" Diameter x 18" Flexible Hose Connection, Weld Ends	1,526.02	281.78
23 05 48 13-0074			Flanged Flexible Hose Connectors <small>(23 05 48 13)</small>		
23 05 48 13-0075			Flanged Flexible Molded Rubber Hose Connectors <small>(23 05 48 13-0074)</small>		
			Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0076	EA		1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	241.59	105.67
23 05 48 13-0077	EA		2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	262.46	117.36
23 05 48 13-0078	EA		2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	442.77	234.44
23 05 48 13-0079	EA		3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	622.97	348.71
23 05 48 13-0080	EA		4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	808.96	450.14
23 05 48 13-0081	EA		6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	990.47	468.09
23 05 48 13-0082	EA		8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,191.74	534.62
23 05 48 13-0083	EA		10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,522.97	636.23
23 05 48 13-0084	EA		12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	3,937.74	795.75
23 05 48 13-0085			Flanged Flexible Corrugated Stainless Steel Hose Connectors <small>(23 05 48 13-0074)</small>		
			Note: With braided metal wire.		
23 05 48 13-0086	EA		1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	193.09	96.08
23 05 48 13-0087	EA		1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	201.55	132.16
23 05 48 13-0088	EA		1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	359.18	176.11
23 05 48 13-0089	EA		2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	479.03	264.17
23 05 48 13-0090	EA		2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	517.56	290.65
23 05 48 13-0091	EA		3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	606.42	351.95
23 05 48 13-0092	EA		4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	776.57	450.56
23 05 48 13-0093	EA		6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,053.72	560.58
23 05 48 13-0094	EA		8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,653.82	748.94
23 05 48 13-0095	EA		10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,940.90	866.03
23 05 48 13-0096	EA		12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,433.09	936.19
23 05 48 13-0097			Flanged Flexible Molded Teflon Hose Connectors <small>(23 05 48 13-0074)</small>		
			Note: 150 PSI.		
23 05 48 13-0098	EA		2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	955.94	204.29
23 05 48 13-0099	EA		3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,075.54	239.52
23 05 48 13-0100	EA		4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,643.27	402.55
23 05 48 13-0101	EA		6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,000.09	468.09
23 05 48 13-0102	EA		8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,600.32	574.19
23 05 48 13-0103			Flexible Hose Connectors Braided Metal Hose Type <small>(23 05 48 13)</small>		
23 05 48 13-0104			Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
			Note: MPT connection.		
23 05 48 13-0105	EA		1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	36.73	2.82
23 05 48 13-0106	EA		1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	43.58	2.82
23 05 48 13-0107	EA		1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.86	3.66
23 05 48 13-0108	EA		1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.96	3.66
23 05 48 13-0109	EA		3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	48.97	3.38
23 05 48 13-0110	EA		3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	58.75	3.38
23 05 48 13-0111	EA		3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	67.58	4.36
23 05 48 13-0112	EA		3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	82.81	4.36
23 05 48 13-0113	EA		1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	66.46	3.94
23 05 48 13-0114	EA		1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	72.46	3.94
23 05 48 13-0115	EA		1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	86.45	5.21
23 05 48 13-0116	EA		1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	108.73	5.21
23 05 48 13-0117	EA		1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	130.84	5.21
23 05 48 13-0118	EA		1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	153.02	5.21
23 05 48 13-0119	EA		1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	94.34	5.06
23 05 48 13-0120	EA		1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	103.69	5.06
23 05 48 13-0121	EA		1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	132.19	5.06
23 05 48 13-0122	EA		1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	183.61	6.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0123 EA 1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	212.33	6.74
23 05 48 13-0124 EA 1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	250.54	6.74
23 05 48 13-0125 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	128.68	6.10
23 05 48 13-0126 EA 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	148.22	6.10
23 05 48 13-0127 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	186.07	6.10
23 05 48 13-0128 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	248.15	8.17
23 05 48 13-0129 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	305.83	8.17
23 05 48 13-0130 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	363.47	8.17
23 05 48 13-0131 EA 2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	177.95	7.65
23 05 48 13-0132 EA 2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	202.02	7.26
23 05 48 13-0133 EA 2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	226.34	7.26
23 05 48 13-0134 EA 2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	279.54	9.73
23 05 48 13-0135 EA 2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	328.43	9.73
23 05 48 13-0136 EA 2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	375.80	9.73
23 05 48 13-0137 EA 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	279.56	9.73
23 05 48 13-0138 EA 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	312.04	9.73
23 05 48 13-0139 EA 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	632.92	9.73
23 05 48 13-0140 EA 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	763.28	12.97
23 05 48 13-0141 EA 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	481.99	12.97
23 05 48 13-0142 EA 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	545.90	12.97
23 05 48 13-0143 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	505.62	10.38
23 05 48 13-0144 EA 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	543.57	10.38
23 05 48 13-0145 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	581.51	10.38
23 05 48 13-0146 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	665.69	13.83
23 05 48 13-0147 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	741.30	13.83
23 05 48 13-0148 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	818.52	13.83

23 05 48 13-0149

Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	152.64	6.17
23 05 48 13-0151 EA 2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	183.69	6.17
23 05 48 13-0152 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	214.15	6.17
23 05 48 13-0153 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	280.37	8.26
23 05 48 13-0154 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	342.12	8.26
23 05 48 13-0155 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	403.80	8.26
23 05 48 13-0156 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	173.20	7.26
23 05 48 13-0157 EA 2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	205.65	7.26
23 05 48 13-0158 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	238.25	7.26
23 05 48 13-0159 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	308.82	9.73
23 05 48 13-0160 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	373.74	9.73
23 05 48 13-0161 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	437.77	9.73
23 05 48 13-0162 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	184.95	9.73
23 05 48 13-0163 EA 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	222.12	9.98
23 05 48 13-0164 LF 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	259.83	9.73
23 05 48 13-0165 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	344.16	12.97
23 05 48 13-0166 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	419.15	12.97
23 05 48 13-0167 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	496.28	12.97
23 05 48 13-0168 EA 6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	372.53	18.89
23 05 48 13-0169 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	544.45	19.02
23 05 48 13-0170 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	729.91	25.06
23 05 48 13-0171 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	901.89	25.06
23 05 48 13-0172 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,073.83	25.06
23 05 48 13-0173 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	635.50	20.86
23 05 48 13-0174 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	765.56	20.86
23 05 48 13-0175 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,037.42	27.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0176 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,295.45	27.12
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,553.40	27.12
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	682.32	26.08
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,007.50	26.08
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,349.02	33.96
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,675.34	33.96
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,000.27	33.96
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,345.24	31.53
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,751.06	31.53
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,191.89	42.43
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,601.26	42.43
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,012.55	42.43
23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
Note: Flanged end connection (carbon steel ends).		
23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	283.39	6.10
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	602.48	172.86
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	719.27	172.86
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	836.06	172.86
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	952.89	172.86
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	581.67	220.45
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	704.74	220.45
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	827.85	220.45
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	951.02	220.45
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,072.02	220.45
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	839.81	369.57
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	983.46	370.50
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,129.44	369.57
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,292.67	369.57
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,417.38	369.57
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,254.30	472.24
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,579.78	472.24
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,905.44	473.93
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,230.97	472.24
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,556.45	472.24
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,919.42	533.18
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,165.65	533.18
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,653.85	533.18
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,142.23	533.18
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,630.38	533.18
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,051.80	649.08
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,665.27	649.08
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,282.86	649.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,899.12	649.08
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,397.17	649.08
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,104.36	788.17
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,882.84	788.17
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,661.26	788.17
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	6,439.69	788.17
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	7,218.17	788.17

23 05 53 Identification for HVAC Piping and Equipment (23 05)

23 05 53 00-0001 Systems Identification (23 05 53)

23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)

Note: Outside diameters of insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	19.43
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	19.78
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	19.97
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	20.28
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	22.94
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	23.57
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	34.89
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	35.40
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	35.94
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	36.22
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	36.52
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	36.83
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	38.45
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	38.79
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	46.56
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	48.55
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	56.23
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	64.38

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.07
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.77
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.19
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.47
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	20.91
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	21.34
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.37
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.93
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.35
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.79
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	26.66
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	27.61
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.44
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	29.26
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	32.60
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	34.15
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	40.08

23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	13.45
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic.....	12.84
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass.....	12.66

23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment (23 05)

23 05 66 00-0001 Double Ended Ultraviolet HVAC Microbial Control Fixtures (23 05 66)

23 05 66 00-0002 EA 18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO).....	928.32	91.26
Note: Includes tube.		
23 05 66 00-0003 EA 24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO).....	969.23	95.78
Note: Includes tube.		
23 05 66 00-0004 EA 30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO).....	973.02	99.89
Note: Includes tube.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0005	EA		36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO)..... Note: Includes tube.	1,018.44	104.95
23 05 66 00-0006	EA		42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO)..... Note: Includes tube.	1,101.08	109.46
23 05 66 00-0007	EA		62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO)..... Note: Includes tube.	952.93	112.88
23 05 66 00-0008			Single Ended Ultraviolet HVAC Microbial Control Fixtures <small>(23 05 66)</small>		
23 05 66 00-0009	EA		12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO) Note: Includes tube.	785.27	63.21
23 05 66 00-0010	EA		16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO) Note: Includes tube.	797.36	68.41
23 05 66 00-0011	EA		20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO) Note: Includes tube.	819.95	72.52
23 05 66 00-0012	EA		24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO) Note: Includes tube.	831.30	77.99
23 05 66 00-0013	EA		30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO) Note: Includes tube.	854.63	82.10
23 05 66 00-0014	EA		36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO) Note: Includes tube.	871.97	86.20
23 05 66 00-0015	EA		42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO) Note: Includes tube.	894.57	91.67
23 05 66 00-0016	EA		12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO) Note: Includes tube.	891.05	63.21
23 05 66 00-0017	EA		16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO) Note: Includes tube.	903.14	68.41
23 05 66 00-0018	EA		20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO) Note: Includes tube.	925.73	72.52
23 05 66 00-0019	EA		24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO) Note: Includes tube.	937.08	77.99
23 05 66 00-0020	EA		30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO) Note: Includes tube.	960.41	82.10
23 05 66 00-0021	EA		36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO) Note: Includes tube.	977.75	86.20
23 05 66 00-0022	EA		42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO) Note: Includes tube.	1,000.35	91.67
23 05 66 00-0023	EA		16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO) Note: Includes tube.	631.76	68.41
23 05 66 00-0024	EA		20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO) Note: Includes tube.	654.35	72.52
23 05 66 00-0025	EA		24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO) Note: Includes tube.	665.70	77.99
23 05 66 00-0026	EA		30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO) Note: Includes tube.	689.03	82.10
23 05 66 00-0027	EA		36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) Note: Includes tube.	706.37	86.20
23 05 66 00-0028	EA		42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) Note: Includes tube.	728.97	91.67
23 05 66 00-0029			Fan Coil Unit Ultraviolet Microbial Control Fixtures <small>(23 05 66)</small>		
23 05 66 00-0030	EA		16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	579.20	87.57
23 05 66 00-0031	EA		20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	592.62	91.67
23 05 66 00-0032	EA		24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	606.03	95.78
23 05 66 00-0033	EA		30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	623.69	99.89
23 05 66 00-0034	EA		36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	646.24	104.95
23 05 66 00-0035	EA		42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	666.22	109.46
23 05 66 00-0036			Ultraviolet HVAC Microbial Control Replacement Parts <small>(23 05 66)</small>		
23 05 66 00-0037	EA		18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO).....	153.09	
23 05 66 00-0038	EA		24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO).....	160.90	
23 05 66 00-0039	EA		30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO).....	182.34	
23 05 66 00-0040	EA		36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO).....	209.88	
23 05 66 00-0041	EA		42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO).....	238.01	
23 05 66 00-0042	EA		62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO).....	221.25	
23 05 66 00-0043	EA		12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO).....	124.60	
23 05 66 00-0044	EA		16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO).....	131.22	
23 05 66 00-0045	EA		20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO).....	148.33	
23 05 66 00-0046	EA		24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO).....	154.21	
23 05 66 00-0047	EA		30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO).....	172.08	
23 05 66 00-0048	EA		36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO).....	183.94	
23 05 66 00-0049	EA		42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO).....	201.07	
23 05 66 00-0050	EA		Removal And Replacement Of Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire).....	443.17	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0051	Ultraviolet HVAC Microbial Control Mounting Accessories <small>(23 05 66)</small>			
23 05 66 00-0052	EA	Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610).....	613.23	
		Note: Includes 61" emitter, power supply, wires and connectors.		
23 05 66 00-0053	EA	Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620).....	771.44	
		Note: Includes 61" emitter, power supply, wires and connectors.		
23 05 66 00-0054	EA	Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1).....	369.70	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0055	EA	Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2).....	389.07	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0056	EA	Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3).....	474.89	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0057	EA	Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4).....	304.81	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0058	EA	Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5).....	328.64	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0059	EA	16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6).....	435.59	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0060	EA	12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7).....	430.09	
		Note: Includes power supply, wires and connectors. Excludes emitter.		
23 05 66 00-0061	LF	30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101).....	16.35	
23 05 66 00-0062	EA	Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111).....	56.16	
23 05 66 00-0063	EA	Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112).....	20.32	
23 05 66 00-0064	EA	Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113).....	19.36	
23 05 66 00-0065	EA	Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104).....	52.23	
23 05 66 00-0066	EA	Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114).....	57.76	
23 05 66 00-0067	EA	Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108).....	51.65	
23 05 66 00-0068	EA	Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115).....	42.49	
23 05 66 00-0069	EA	ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109).....	40.31	
23 05 66 00-0070	EA	DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223).....	23.20	
23 05 66 00-0071	EA	DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603).....	44.93	
23 05 66 00-0072	EA	Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100).....	23.29	
23 05 66 00-0073	EA	480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503).....	86.09	
23 05 66 00-0074	EA	Interlock Switch (16 Amps At 125 Volt, 10 Amperes At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120).....	90.19	
23 05 93	Testing, Adjusting, and Balancing for HVAC <small>(23 05)</small>			
		Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.		
23 05 93 00-0001	Heating And Ventilating Equipment <small>(23 05 93)</small>			
23 05 93 00-0002	EA	Balancing Centrifugal Fans.....	560.63	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-280.32	
23 05 93 00-0003	EA	Balancing Heating And Ventilating Units.....	700.51	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-350.26	
23 05 93 00-0004	EA	Balancing In Line Fan.....	630.70	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-315.35	
23 05 93 00-0005	EA	Balancing Propeller And Wall Fan.....	140.15	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-70.08	
23 05 93 00-0006	EA	Balancing Roof Exhaust Fan.....	420.44	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-210.22	
23 05 93 00-0007	EA	Balancing Wall Fan.....	105.09	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-52.55	
23 05 93 00-0008	EA	Balancing Fan Section Exhaust.....	559.73	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-279.87	
23 05 93 00-0009	Air Conditioning Equipment <small>(23 05 93)</small>			
23 05 93 00-0010	EA	Balancing Constant Volume Air Handling Unit.....	1,037.87	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-518.94	
23 05 93 00-0011	EA	Balancing Package A/C Unit.....	389.20	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.60	
23 05 93 00-0012	EA	Balancing Rooftop Heat And Cool Unit.....	518.94	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-259.47	
23 05 93 00-0013	EA	Balancing Variable Volume Air Handling Unit.....	1,816.27	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-908.14	
23 05 93 00-0014	Registers, Diffusers, Terminal Air Units And Dampers <small>(23 05 93)</small>			
23 05 93 00-0015	EA	Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser.....	105.11	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-52.56	
23 05 93 00-0016	EA	Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser.....	175.20	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-87.60	
23 05 93 00-0017	EA	Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser.....	91.10	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.55	
23 05 93 00-0018	EA	Balance Variable Air Volume Box.....	98.70	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.35	
23 05 93 00-0019	EA	Balance Constant Volume Box.....	98.70	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.35	
23 05 93 00-0020	EA	Balance Fan Powered Box.....	112.12	
		<i>For Testing Of Unit Without Balancing, Deduct</i>	-56.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0021 EA Balance Lab Fume Hood	455.52	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-227.76	
23 05 93 00-0022 EA Balance General Hood	350.39	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-175.20	
23 05 93 00-0023 EA Balance Induction Unit	210.25	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-105.13	
23 05 93 00-0024 EA Balance Moduline - Master	84.07	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-42.04	
23 05 93 00-0025 EA Balance Moduline - Slave	42.05	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-21.03	
23 05 93 00-0026 EA Balance Dampers	39.04	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-19.52	
23 05 93 00-0027 EA Balance Regenerators	559.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-279.87	
23 05 93 00-0028 Water Balancing Of Components (23 05 93)		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	713.60	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-356.80	
23 05 93 00-0030 EA Water Balance, Cabinet Heater	90.82	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled	778.34	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-389.17	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	1,037.87	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-518.94	
23 05 93 00-0033 EA Water Balance, Cooling Tower	518.94	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-259.47	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	129.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.91	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel	129.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-64.87	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil	142.71	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-71.36	
23 05 93 00-0037 EA Water Balance, Pumps	389.22	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.61	
23 05 93 00-0038 EA Water Balance, Unit Heater	90.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.41	
23 05 93 00-0039 EA Water Balancing, Converter	389.36	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-194.68	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves	64.85	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-32.43	
23 05 93 00-0041 EA Water Balance, Convactor	77.83	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-38.92	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves	97.30	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-48.65	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH	843.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-421.64	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler	1,556.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-778.41	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler	2,854.15	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-1,427.08	
23 05 93 00-0046 Non Destructive Testing (23 05 93)		
23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0048 Minimum Charge For X-Ray Welds (23 05 93 00-0047)		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge	943.34	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing	105.63	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing	120.29	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing	134.96	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing	142.60	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing	150.23	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing	158.43	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing	173.69	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing	188.95	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing	197.16	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing	205.37	
23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing	118.90	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing	125.94	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	132.98	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	136.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 93 00-0067	EA		3" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	141.79	
	23 05 93 00-0068	EA		4" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	147.08	
	23 05 93 00-0069	EA		6" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	157.64	
	23 05 93 00-0070	EA		8" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	168.20	
	23 05 93 00-0071	EA		10" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	178.78	
	23 05 93 00-0072	EA		12" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	189.34	
23 05 93 00-0073				Hydrostatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes flushing and restoring of system.		
23 05 93 00-0074				Piping, Hydrostatic Testing <small>(23 05 93 00-0073)</small>		
	23 05 93 00-0075	EA		Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing.....	926.91	
	23 05 93 00-0076	EA		>100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,324.15	
	23 05 93 00-0077	EA		>250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,586.59	
	23 05 93 00-0078	EA		>500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	2,113.35	
	23 05 93 00-0079	EA		>1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	3,202.03	
	23 05 93 00-0080	EA		Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,232.42	
	23 05 93 00-0081	EA		>100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,761.12	
	23 05 93 00-0082	EA		>250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing.....	2,096.57	
	23 05 93 00-0083	EA		>500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	2,747.32	
	23 05 93 00-0084	EA		>1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	4,156.23	
	23 05 93 00-0085	EA		Up To 100', >4" To 10" Piping, Hydrostatic Testing.....	1,606.14	
	23 05 93 00-0086	EA		>100' To 250', >4" To 10" Piping, Hydrostatic Testing.....	2,289.46	
	23 05 93 00-0087	EA		>250' To 500', >4" To 10" Piping, Hydrostatic Testing.....	2,415.35	
	23 05 93 00-0088	EA		>500' To 1,000', >4" To 10" Piping, Hydrostatic Testing.....	3,164.30	
	23 05 93 00-0089	EA		>1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing.....	4,786.99	
	23 05 93 00-0090	EA		Up To 100', >10" To 14" Piping, Hydrostatic Testing.....	2,085.17	
	23 05 93 00-0091	EA		>100' To 250', >10" To 14" Piping, Hydrostatic Testing.....	2,972.76	
	23 05 93 00-0092	EA		>250' To 500', >10" To 14" Piping, Hydrostatic Testing.....	3,140.57	
	23 05 93 00-0093	EA		>500' To 1,000', >10" To 14" Piping, Hydrostatic Testing.....	4,119.19	
	23 05 93 00-0094	EA		>1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing.....	6,241.21	
23 05 93 00-0095				Pneumatic Testing <small>(23 05 93 00-0046)</small>		
				Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096				Piping, Pneumatic Testing <small>(23 05 93 00-0095)</small>		
	23 05 93 00-0097	EA		Up To 100', Up To 1-1/2" Piping, Pneumatic Testing.....	1,054.01	
				Note: Includes soaping joints.		
	23 05 93 00-0098	EA		>100' To 250', Up To 1-1/2" Piping, Pneumatic Testing.....	1,504.00	
				Note: Includes soaping joints.		
	23 05 93 00-0099	EA		>250' To 500', Up To 1-1/2" Piping, Pneumatic Testing.....	1,624.33	
				Note: Includes soaping joints.		
	23 05 93 00-0100	EA		>500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing.....	2,080.40	
				Note: Includes soaping joints.		
	23 05 93 00-0101	EA		>1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing.....	3,253.98	
				Note: Includes soaping joints.		
	23 05 93 00-0102	EA		Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing.....	1,375.34	
				Note: Includes soaping joints.		
	23 05 93 00-0103	EA		>100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing.....	1,952.98	
				Note: Includes soaping joints.		
	23 05 93 00-0104	EA		>250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing.....	2,111.48	
				Note: Includes soaping joints.		
	23 05 93 00-0105	EA		>500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing.....	2,705.10	
				Note: Includes soaping joints.		
	23 05 93 00-0106	EA		>1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing.....	4,229.61	
				Note: Includes soaping joints.		
	23 05 93 00-0107	EA		Up To 100', >4" To 10" Piping, Pneumatic Testing.....	1,656.08	
				Note: Includes soaping joints.		
	23 05 93 00-0108	EA		>100' To 250', >4" To 10" Piping, Pneumatic Testing.....	2,337.19	
				Note: Includes soaping joints.		
	23 05 93 00-0109	EA		>250' To 500', >4" To 10" Piping, Pneumatic Testing.....	2,643.99	
				Note: Includes soaping joints.		
	23 05 93 00-0110	EA		>500' To 1,000', >4" To 10" Piping, Pneumatic Testing.....	3,378.17	
				Note: Includes soaping joints.		
	23 05 93 00-0111	EA		>1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing.....	5,289.70	
				Note: Includes soaping joints.		
	23 05 93 00-0112	EA		Up To 100', >10" To 14" Piping, Pneumatic Testing.....	2,156.36	
				Note: Includes soaping joints.		
	23 05 93 00-0113	EA		>100' To 250', >10" To 14" Piping, Pneumatic Testing.....	3,038.54	
				Note: Includes soaping joints.		
	23 05 93 00-0114	EA		>250' To 500', >10" To 14" Piping, Pneumatic Testing.....	3,438.20	
				Note: Includes soaping joints.		
	23 05 93 00-0115	EA		>500' To 1,000', >10" To 14" Piping, Pneumatic Testing.....	4,392.45	
				Note: Includes soaping joints.		
	23 05 93 00-0116	EA		>1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing.....	6,887.59	
				Note: Includes soaping joints.		
23 05 93 00-0117				EPA Testing Of Sludge <small>(23 05 93)</small>		
	23 05 93 00-0118	EA		Flashpoint And Lead Test For Lead.....	890.27	
	23 05 93 00-0119	EA		Air Test/Combustion Gas Level.....	96.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	1,364.54	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	1,036.65	

23 07 HVAC Insulation (23)**23 07 13 Duct Insulation (23 07)**

Note: Based on SF surface area of duct to receive insulation.

23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight. See CSI section 23 33 53 00-0000 for internal duct insulation.

23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.12	2.63
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.25	
<i>For Work In Restricted Working Space, Add</i>	1.05	
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.81	2.63
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.23	
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.47	3.94
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.31	
<i>For Work In Restricted Working Space, Add</i>	1.41	
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.44	4.60
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.38	
<i>For Work In Restricted Working Space, Add</i>	1.64	
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	7.43	4.99
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.61	
<i>For Work In Restricted Working Space, Add</i>	1.77	

23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.09	3.94
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.28	
<i>For Work In Restricted Working Space, Add</i>	1.31	
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.92	4.60
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.35	
<i>For Work In Restricted Working Space, Add</i>	1.52	
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation.....	7.00	5.25
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.41	
<i>For Work In Restricted Working Space, Add</i>	1.79	

23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)

23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.48	5.25
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.48	
<i>For Work In Restricted Working Space, Add</i>	1.58	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	8.13	5.91
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.84	
<i>For Work In Restricted Working Space, Add</i>	1.81	
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	9.49	6.57
<i>For Plain Blanket, With No Facing, Deduct</i>	-1.00	
<i>For Work In Restricted Working Space, Add</i>	2.10	

23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.

23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	12.24	6.87
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	28.39	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	20.99	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	17.31	
<i>For Work In Restricted Working Space, Add</i>	3.50	
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	15.55	8.36
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	35.01	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	26.19	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	21.53	
<i>For Work In Restricted Working Space, Add</i>	4.26	
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation.....	19.26	10.09
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	42.59	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	32.10	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	26.32	
<i>For Work In Restricted Working Space, Add</i>	5.14	

23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)

Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.

23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	13.69	7.57
<i>For Work In Restricted Working Space, Add</i>	3.85	
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	17.53	9.20
<i>For Work In Restricted Working Space, Add</i>	4.68	
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation.....	22.21	11.11
<i>For Work In Restricted Working Space, Add</i>	5.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0024			Sheet Flexible Elastomeric Insulation <small>(23 07 13)</small>		
23 07 13 00-0025	SF		3/8" Thick, Sheet Flexible Elastomeric Insulation	9.39	3.54
23 07 13 00-0026	SF		1/2" Thick, Sheet Flexible Elastomeric Insulation	10.01	3.74
23 07 13 00-0027	SF		3/4" Thick, Sheet Flexible Elastomeric Insulation	12.87	3.94
23 07 13 00-0028	SF		1" Thick, Sheet Flexible Elastomeric Insulation	14.72	4.13
23 07 13 00-0029	SF		1-1/2" Thick, Sheet Flexible Elastomeric Insulation	20.07	4.53
23 07 13 00-0030	SF		2" Thick, Sheet Flexible Elastomeric Insulation	23.62	4.92
23 07 13 00-0031			Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small>		
			Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032	SF		1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	13.48	3.74
23 07 13 00-0033	SF		3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	14.78	3.94
23 07 13 00-0034	SF		1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.39	4.13
23 07 13 00-0035	SF		1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	25.05	4.53
23 07 13 00-0036	SF		2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	29.57	4.92
23 07 13 00-0037			Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small>		
			Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038	SF		1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.95	3.74
23 07 13 00-0039	SF		3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.25	3.94
23 07 13 00-0040	SF		1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	19.29	4.13
23 07 13 00-0041	SF		1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	27.92	4.53
23 07 16			HVAC Equipment Insulation <small>(23 07)</small>		
23 07 16 00-0001			Calcium Silicate Block Insulation <small>(23 07 16)</small>		
23 07 16 00-0002	SF		1" Thick, Calcium Silicate Block Insulation	19.60	8.26
			<i>For Work In Restricted Working Space, Add</i>	4.96	
23 07 16 00-0003	SF		1-1/2" Thick, Calcium Silicate Block Insulation	23.21	9.29
			<i>For Work In Restricted Working Space, Add</i>	5.58	
23 07 16 00-0004	SF		2" Thick, Calcium Silicate Block Insulation	27.67	10.72
			<i>For Work In Restricted Working Space, Add</i>	6.45	
23 07 16 00-0005	SF		2-1/2" Thick, Calcium Silicate Block Insulation	32.87	12.58
			<i>For Work In Restricted Working Space, Add</i>	7.55	
23 07 16 00-0006	SF		3" Thick, Calcium Silicate Block Insulation	40.21	15.49
			<i>For Work In Restricted Working Space, Add</i>	9.29	
23 07 19			HVAC Piping Insulation <small>(23 07)</small>		
			See CSI section 22 07 19 00-0000 for pipe insulation.		
23 07 19 00-0001			Calcium Silicate Pipe Insulation <small>(23 07 19)</small>		
			Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing.		
23 07 19 00-0002			1" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0003	LF		1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
			<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 19 00-0004	LF		3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.55	4.32
			<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 19 00-0005	LF		1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.51	4.38
			<i>For Work In Restricted Working Space, Add</i>	3.29	
23 07 19 00-0006	LF		1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.74	4.44
			<i>For Work In Restricted Working Space, Add</i>	3.33	
23 07 19 00-0007	LF		1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.94	4.51
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 07 19 00-0008	LF		2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	16.97	4.63
			<i>For Work In Restricted Working Space, Add</i>	3.47	
23 07 19 00-0009	LF		2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.73	4.82
			<i>For Work In Restricted Working Space, Add</i>	3.61	
23 07 19 00-0010	LF		3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	18.48	4.94
			<i>For Work In Restricted Working Space, Add</i>	3.71	
23 07 19 00-0011	LF		4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	20.96	5.31
			<i>For Work In Restricted Working Space, Add</i>	3.99	
23 07 19 00-0012	LF		6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	23.37	6.00
			<i>For Work In Restricted Working Space, Add</i>	4.50	
23 07 19 00-0013			1-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0014	LF		1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.27	4.50
			<i>For Work In Restricted Working Space, Add</i>	3.37	
23 07 19 00-0015	LF		3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.35	4.50
			<i>For Work In Restricted Working Space, Add</i>	3.37	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0016 LF 1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	17.49 3.57	4.77
23 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.14 3.64	4.85
23 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	18.81 3.71	4.94
23 07 19 00-0019 LF 2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.15 3.91	5.21
23 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.03 3.98	5.30
23 07 19 00-0021 LF 3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.83 4.11	5.48
23 07 19 00-0022 LF 4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.23 4.45	5.93
23 07 19 00-0023 LF 6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.11 5.19	6.92
23 07 19 00-0024 LF 8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.60 5.48	7.30
23 07 19 00-0025 LF 10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.83 6.56	8.74
23 07 19 00-0026 LF 12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.97 7.64	10.18
23 07 19 00-0027 LF 14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.34 8.37	11.16
23 07 19 00-0028 LF 16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	63.99 10.66	14.21
23 07 19 00-0029 LF 18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.77 11.19	14.92
23 07 19 00-0030 2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.30 3.71	4.94
23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	20.73 3.71	4.94
23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	21.34 3.75	5.00
23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.13 3.80	5.06
23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	22.69 3.85	5.13
23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	23.65 3.99	5.31
23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.22 4.13	5.50
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.74 4.27	5.69
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	29.48 4.50	6.01
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.05 5.40	7.20
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.50 5.70	7.60
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.75 6.83	9.09
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.24 8.17	10.90
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	70.99 11.40	15.20
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	74.36 11.40	15.20
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.57 11.97	15.96
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	94.46 13.68	18.24
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.39 16.53	22.04
23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.25 4.28	5.69
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	24.70 4.28	5.69
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.12 4.34	5.78
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.35 4.37	5.84
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	25.95 4.41	5.88
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.05 4.59	6.12
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.16 4.75	6.33



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0057	LF		3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.71 4.91	6.55
23 07 19 00-0058	LF		4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.16 5.18	6.91
23 07 19 00-0059	LF		6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.42 5.89	7.85
23 07 19 00-0060	LF		8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	49.46 6.56	8.75
23 07 19 00-0061	LF		10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	58.91 7.57	10.09
23 07 19 00-0062	LF		12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.92 9.41	12.55
23 07 19 00-0063	LF		14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.15 10.28	13.70
23 07 19 00-0064	LF		16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	92.86 13.13	17.51
23 07 19 00-0065	LF		18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	98.02 13.79	18.38
23 07 19 00-0066	LF		20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	113.57 15.76	21.02
23 07 19 00-0067	LF		24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	133.76 19.04	25.38
23 07 19 00-0068			3" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0069	LF		1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.17 4.73	6.31
23 07 19 00-0070	LF		3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.27 4.73	6.31
23 07 19 00-0071	LF		1" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.55 4.78	6.37
23 07 19 00-0072	LF		1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.86 4.81	6.41
23 07 19 00-0073	LF		1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	31.15 4.86	6.48
23 07 19 00-0074	LF		2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	32.22 5.04	6.72
23 07 19 00-0075	LF		2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.51 5.21	6.95
23 07 19 00-0076	LF		3" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.27 5.40	7.20
23 07 19 00-0077	LF		4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	42.35 5.70	7.61
23 07 19 00-0078	LF		6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	50.06 6.48	8.63
23 07 19 00-0079	LF		8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	57.97 7.22	9.62
23 07 19 00-0080	LF		10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	68.70 8.33	11.11
23 07 19 00-0081	LF		12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.81 10.35	13.80
23 07 19 00-0082	LF		14" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	88.48 11.30	15.07
23 07 19 00-0083	LF		16" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.27 14.44	19.26
23 07 19 00-0084	LF		18" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	112.18 15.17	20.22
23 07 19 00-0085	LF		20" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	131.11 17.34	23.12
23 07 19 00-0086	LF		24" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	155.35 20.95	27.93
23 07 19 00-0087			3-1/2" Thick, Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0088	LF		1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	37.94 5.18	6.91
23 07 19 00-0089	LF		3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.24 5.18	6.91
23 07 19 00-0090	LF		1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.35 5.21	6.95
23 07 19 00-0091	LF		1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.47 5.25	7.00
23 07 19 00-0092	LF		1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.66 5.32	7.09
23 07 19 00-0093	LF		2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.04 5.49	7.32
23 07 19 00-0094	LF		2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.58 5.69	7.59
23 07 19 00-0095	LF		3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.24 5.89	7.86
23 07 19 00-0096	LF		4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	54.65 6.23	8.30
23 07 19 00-0097	LF		6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	61.04 7.07	9.43

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	73.89 7.87	10.49
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	89.50 9.08	12.11
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	108.54 11.30	15.06
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	114.61 12.33	16.44
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	134.48 15.76	21.01
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	153.53 16.55	22.06
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	166.33 18.92	25.23
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.95 5.76	7.68
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	46.99 5.76	7.68
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.32 5.86	7.81
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.56 5.92	7.90
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	51.33 6.11	8.15
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	52.44 6.30	8.40
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	56.97 6.40	8.53
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	58.65 6.63	8.84
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	66.26 7.00	9.34
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	76.55 7.94	10.59
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	90.84 8.86	11.81
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.62 10.23	13.64
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	119.78 12.71	16.94
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	127.62 13.88	18.50
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	151.91 17.75	23.66
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	161.39 18.59	24.79
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	179.03 21.28	28.37
23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) <i>For Work In Restricted Working Space, Add</i>	5.97 1.22	

23 08 Commissioning of HVAC (23)

See CSI section 23 05 93 00-0000 for testing and balancing.

23 09 Instrumentation and Control for HVAC (23)**23 09 23 Direct-Digital Control System for HVAC (23 09)****23 09 23 11 Control Valves (23 09 23)****23 09 23 11-0001 Valves With Actuator (23 09 23 11)**

23 09 23 11-0002 EA 1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G215+NV24-MFT US).....	671.97	18.18
23 09 23 11-0003 EA 3/4" 2-Way Bronze Globe Valve With Actuator (Belimo G220+NV24-MFT US).....	698.04	24.51
23 09 23 11-0004 EA 1" 2-Way Bronze Globe Valve With Actuator (Belimo B225+NV24-MFT US).....	765.54	29.66
23 09 23 11-0005 EA 1-1/4" 2-Way Bronze Globe Valve With Actuator (Belimo B232+NV24-MFT US).....	838.23	37.57
23 09 23 11-0006 EA 1-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G240+NV24-MFT US).....	955.12	43.35
23 09 23 11-0007 EA 2" 2-Way Bronze Globe Valve With Actuator (Belimo G250+NV24-MFT US).....	1,080.69	51.23
23 09 23 11-0008 EA 2-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G665+GMX24-MFTX1).....	2,024.76	102.46
23 09 23 11-0009 EA 3" 2-Way Bronze Globe Valve With Actuator (Belimo G680+GMX24-MFTX1).....	2,199.82	119.90
23 09 23 11-0010 EA 4" 2-Way Bronze Globe Valve With Actuator (Belimo G6100C+GMX24-MFTX1).....	2,977.10	176.11
23 09 23 11-0011 EA 5" 2-Way Bronze Globe Valve With Actuator (Belimo G6125C+GMX24-MFTX1).....	4,376.63	254.51
23 09 23 11-0012 EA 6" 2-Way Bronze Globe Valve With Actuator (Belimo G6150C+GMX24-MFTX1).....	4,847.69	281.78
23 09 23 11-0013 EA 1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G315+NV24-MFT US).....	727.14	27.27
23 09 23 11-0014 EA 3/4" 3-Way Bronze Globe Valve With Actuator (Belimo G320+NV24-MFT US).....	754.26	36.76
23 09 23 11-0015 EA 1" 3-Way Bronze Globe Valve With Actuator (Belimo G325+NV24-MFT US).....	819.69	44.49

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 11-0082 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14).....	600.86	116.40
23 09 23 11-0083 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S).....	658.72	116.40
23 09 23 11-0084 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T).....	683.67	116.40
23 09 23 11-0085 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR).....	696.92	116.40
23 09 23 11-0086 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT).....	694.29	116.40
23 09 23 11-0087 EA 24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC).....	702.77	116.40
23 09 23 11-0088 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95).....	702.24	116.40
23 09 23 11-0089 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4).....	757.29	116.40
23 09 23 11-0090 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4).....	896.52	116.40
23 09 23 11-0091 EA 100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3).....	630.05	116.40
23 09 23 11-0092 EA 100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR).....	731.98	116.40
23 09 23 11-0093 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24).....	1,531.35	116.40
23 09 23 11-0094 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24).....	1,705.44	116.40
23 09 23 11-0095 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24).....	2,027.63	116.40
23 09 23 11-0096 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24).....	2,284.01	116.40
23 09 23 11-0097 EA 120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110).....	2,685.82	116.40
23 09 23 11-0098 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110).....	3,146.56	116.40
23 09 23 11-0099 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110).....	4,206.03	116.40
23 09 23 11-0100 EA 120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110).....	5,113.15	116.40

23 09 23 12 Control Dampers (23 09 23)**23 09 23 12-0001 Rectangular Galvanized Volume Control Dampers (23 09 23 12)**

Note: Excludes actuators.

23 09 23 12-0002 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008).....	195.28	43.45
23 09 23 12-0003 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010).....	219.51	47.65
23 09 23 12-0004 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012).....	245.10	52.56
23 09 23 12-0005 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014).....	283.81	61.67
23 09 23 12-0006 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016).....	321.10	70.08
23 09 23 12-0007 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018).....	328.39	78.84
23 09 23 12-0008 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020).....	398.85	87.60
23 09 23 12-0009 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024).....	476.56	105.11
23 09 23 12-0010 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032).....	606.34	122.63
23 09 23 12-0011 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048).....	881.21	140.15
23 09 23 12-0012 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060).....	1,570.94	157.68
23 09 23 12-0013 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072).....	1,984.12	175.20

23 09 23 12-0014 Round Galvanized Control Dampers (23 09 23 12)

Note: Excludes actuators.

23 09 23 12-0015 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06).....	192.86	49.06
23 09 23 12-0016 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08).....	199.94	52.56
23 09 23 12-0017 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10).....	207.53	52.56
23 09 23 12-0018 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12).....	230.95	59.57
23 09 23 12-0019 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14).....	259.10	59.57
23 09 23 12-0020 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16).....	283.55	70.08
23 09 23 12-0021 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18).....	380.07	73.76
23 09 23 12-0022 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20).....	397.00	76.46
23 09 23 12-0023 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22).....	422.01	82.43
23 09 23 12-0024 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24).....	447.47	88.39

23 09 23 12-0025 Remote Damper Control (23 09 23 12)

23 09 23 12-0026 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B).....	305.52	
For Each 10' Flexible Casing And Wire, Add	33.23	
23 09 23 12-0027 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B).....	298.72	
For Each 10' Flexible Casing And Wire, Add	33.23	

23 09 23 13 Energy Meters (23 09 23)**23 09 23 13-0001 Surge Protectors (23 09 23 13)**

23 09 23 13-0002 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255).....	292.42	10.96
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 13-0003 EA Surge Protector, 1AC Outlet (Transtector TR2251).....	222.49	10.96
23 09 23 13-0004 EA Surge Protector, 2 AC Outlets (Transtector TR2254).....	342.82	10.96
23 09 23 13-0005 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15).....	188.35	10.96
23 09 23 13-0006 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25).....	188.35	10.96
23 09 23 13-0007 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9).....	188.35	10.96
23 09 23 13-0008 EA Surge Protector, Individual Wire Connection (Transtector TR2258).....	269.67	10.96
23 09 23 13-0009 EA Surge Protector, Trane Communication Links (Transtector TR2257).....	168.84	10.96
 23 09 23 14 Flow Instruments (23 09 23)		
23 09 23 14-0001 Water Flow Meters (23 09 23 14)		
23 09 23 14-0002 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500).....	4,359.59	124.49
Note: Excludes pipe fittings.		
 23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)		
23 09 23 14-0004 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	3,444.10	134.55
Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 14-0005 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	4,905.04	134.55
Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 14-0006 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	6,082.13	134.55
Note: 10' cable, 60" x 48" typical duct size.		
 23 09 23 16 Gas Instruments (23 09 23)		
23 09 23 16-0001 Gas Sensors (23 09 23 16)		
23 09 23 16-0002 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....	1,813.68	65.77
23 09 23 16-0003 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD).....	811.01	43.85
23 09 23 16-0004 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....	1,450.09	65.77
Note: Solid state sensor.		
23 09 23 16-0005 EA CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD).....	815.13	78.93
 23 09 23 19 Moisture Instruments (23 09 23)		
23 09 23 19-0001 Relative Humidity Sensors (23 09 23 19)		
23 09 23 19-0002 EA 3% Duct Mounted RH Sensor (Kele HD30K).....	527.03	78.93
23 09 23 19-0003 EA 10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3).....	540.02	78.93
23 09 23 19-0004 EA 3% RH Outdoor Air Sensor (Kele HO30K).....	624.46	109.62
23 09 23 19-0005 EA 2% Surface Mounted RH Transmitter (Kele HW20K).....	459.19	43.85
 23 09 23 21 Motion Instruments (23 09 23)		
23 09 23 21-0001 Peco Motion Sensors (23 09 23 21)		
23 09 23 21-0002 EA Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	173.35	30.83
23 09 23 21-0003 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	170.25	30.83
23 09 23 21-0004 EA Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001).....	222.26	30.83
23 09 23 21-0005 EA Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002).....	199.31	30.83
23 09 23 21-0006 EA Door Switch Occupancy Sensor (Peco SE200-001).....	73.18	30.83
23 09 23 21-0007 EA Window Switch Occupancy Sensor (Peco SE200-002).....	68.91	30.83
23 09 23 21-0008 EA Power Pack And Controller (Peco SF200-001).....	112.89	30.83
 23 09 23 23 Pressure Instruments (23 09 23)		
23 09 23 23-0001 Pressure Sensors (23 09 23 23)		
23 09 23 23-0002 EA 0 To 0.5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-005).....	694.72	92.57
23 09 23 23-0003 EA 0 To 5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-050).....	624.91	92.57
23 09 23 23-0004 EA 0.05 To 12" W.C., Adjustable Differential Pressure Switches (Kele AFS-222).....	287.11	92.57
23 09 23 23-0005 EA 0.05 To 2" W.C., Adjustable Differential Pressure Switches (Kele AFS-262).....	295.22	92.57
23 09 23 23-0006 EA 0.4 To 2" W.C., Manual Reset Adjustable Differential Pressure Switches (Kele AFS-460).....	311.10	92.57
23 09 23 23-0007 EA 0.05 To 12" W.C., 1/8" NPT, Adjustable Differential Pressure Switches (Kele AFS-145).....	292.87	92.57
23 09 23 23-0008 EA 0 To 100 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P210D-BVA).....	2,393.88	92.57
Note: Excludes pipe fittings.		
23 09 23 23-0009 EA 0 To 60 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P160D-BVA).....	2,393.88	92.57
Note: Excludes pipe fittings.		
23 09 23 23-0010 EA Magnahelic Gauge.....	710.71	56.59
 23 09 23 23-0011 Room Pressure Monitoring (23 09 23 23)		
23 09 23 23-0012 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM).....	2,844.26	70.08
23 09 23 23-0013 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC).....	4,541.53	70.08
Note: Excludes dampers and actuators.		
23 09 23 23-0014 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....	373.00	42.05
23 09 23 23-0015 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7).....	427.16	42.05

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 09 23 27 Temperature Instruments (23 09 23)****23 09 23 27-0001 Air Temperature Sensors (23 09 23 27)**

23 09 23 27-0002	EA	10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	227.65	78.93
23 09 23 27-0003	EA	10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....	297.46	78.93
23 09 23 27-0004	EA	10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	235.68	78.93
23 09 23 27-0005	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH).....	243.92	78.93
23 09 23 27-0006	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	246.66	78.93
23 09 23 27-0007	EA	10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	243.95	78.93
23 09 23 27-0008	EA	10K Ohm Thermistor Duct Temperature Sensor With Non Metallic Handibox Housing (Kele ST-D24-XHP).....	245.41	78.93
23 09 23 27-0009	EA	10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4).....	259.28	78.93
23 09 23 27-0010	EA	10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....	271.39	78.93
23 09 23 27-0011	EA	10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24).....	338.19	109.62
23 09 23 27-0012	EA	10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-O24-XC25).....	347.52	109.62
23 09 23 27-0013	EA	Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....	149.06	43.85
23 09 23 27-0014	EA	Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R).....	152.49	43.85
23 09 23 27-0015	EA	Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....	143.46	43.85

23 09 23 27-0016 Water Temperature Sensors (23 09 23 27)

23 09 23 27-0017	EA	5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	178.86	84.82
23 09 23 27-0018	EA	Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005).....	423.32	84.82

23 09 23 27-0019 Peco Thermostats (23 09 23 27)

23 09 23 27-0020	EA	3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-IAQ).....	365.33	20.55
23 09 23 27-0021	EA	3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	329.76	20.55

23 09 23 53 Proprietary Control Systems (23 09 23)**23 09 23 53-0001 EMCS General Costs (23 09 23 53)****23 09 23 53-0002 EMCS System Design Engineering (23 09 23 53-0001)**

Note: Hourly labor rates are used for engineering projects only. Not used in conjunction with construction tasks.

23 09 23 53-0003	HR	EMCS Site Inspection Of Existing Facilities.....	339.13	
23 09 23 53-0004	HR	EMCS Engineering Project Management.....	339.13	
23 09 23 53-0005	HR	EMCS System Engineering, Schematic Design And Layout.....	359.69	
23 09 23 53-0006	HR	EMCS System Software Programming And Graphics Programming.....	359.69	
23 09 23 53-0007	HR	EMCS Graphics Picture Creation.....	231.30	
23 09 23 53-0008	HR	EMCS System Controls Training.....	339.13	
23 09 23 53-0009	HR	EMCS On Site System Diagnostics Field Technician.....	339.13	
23 09 23 53-0010	HR	EMCS Remote Technical Support Using Phone Or Internet.....	282.68	
23 09 23 53-0011	HR	EMCS Travel Time (All Personnel).....	292.96	

23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001)

Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.

23 09 23 53-0013	PNT	EMCS Field Test.....	179.91	
		Note: Priced per point.		
23 09 23 53-0014	PNT	EMCS Field Checkout And Startup.....	179.91	
		Note: Priced per point.		
23 09 23 53-0015	PNT	EMCS Field Commissioning.....	179.91	
		Note: Priced per point.		
23 09 23 53-0016	EA	EMCS Field Balance Support.....	154.15	
		Note: Priced per controller.		

23 09 23 53-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001)

Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.

23 09 23 53-0018	PNT	EMCS System Engineering/Submittal Design And Layout.....	60.01	
		Note: Priced per point.		

23 09 23 53-0019 Alerton Controls (23 09 23 53)

23 09 23 53-0020	EA	50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL).....	9,835.53	
23 09 23 53-0021	EA	150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM).....	12,503.97	
23 09 23 53-0022	EA	Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....	30,934.74	
23 09 23 53-0023	EA	Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE).....	23,322.03	
23 09 23 53-0024	EA	Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....	59,382.20	
23 09 23 53-0025	EA	Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....	46,928.62	
23 09 23 53-0026	EA	Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....	71,402.24	
23 09 23 53-0027	EA	Alerton Building Suite Tech License (Alerton ABS-3-TECH).....	2,029.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0028 EA Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1).....	27,376.79	
23 09 23 53-0029 EA Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG).....	20,152.73	
23 09 23 53-0030 EA 150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED).....	12,447.89	
23 09 23 53-0031 EA 50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM).....	7,868.28	
23 09 23 53-0032 EA 10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS).....	3,090.71	
23 09 23 53-0033 EA 1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100).....	5,330.46	328.86
23 09 23 53-0034 EA Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS).....	7,835.41	438.48
23 09 23 53-0035 EA Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS).....	7,737.64	438.48
23 09 23 53-0036 EA V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM).....	2,966.50	328.86
23 09 23 53-0037 EA 1 MS/TP, BACTalk Control Module (Alerton 715000300).....	3,539.46	328.86
23 09 23 53-0038 EA Power Supply, BACTalk Control Module (Alerton BCM-PWS).....	2,790.20	328.86
23 09 23 53-0039 EA 1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX).....	3,408.05	328.86
23 09 23 53-0040 EA Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB).....	7,710.42	328.86
23 09 23 53-0041 EA BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS).....	3,759.01	438.48
23 09 23 53-0042 EA EXP BACnet Controller (Alerton VLX).....	8,195.15	876.96
23 09 23 53-0043 EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....	9,449.26	876.96
23 09 23 53-0044 EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP).....	1,232.67	97.64
23 09 23 53-0045 EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....	2,465.67	328.86
23 09 23 53-0046 EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....	2,597.90	328.86
23 09 23 53-0047 EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD).....	2,141.13	328.86
23 09 23 53-0048 EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....	2,325.45	328.86
23 09 23 53-0049 EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....	2,317.43	328.86
23 09 23 53-0050 EA 11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACTalk Field Controller For Central Plant Systems (Alerton VLC-1188).....	3,375.20	328.86
23 09 23 53-0051 EA 16 Inputs, BACTalk Field Controller (Alerton VLC-1600).....	2,646.78	328.86
23 09 23 53-0052 EA 16 Inputs, 16 Binary Triac Outputs, BACTalk Field Controller (Alerton VLC-16160).....	3,931.31	438.48
23 09 23 53-0053 EA 4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444).....	1,758.91	219.24
23 09 23 53-0054 EA 5 Inputs, 5 Binary Outputs, BACTalk Field Controller (Alerton VLC-550).....	1,706.01	219.24
23 09 23 53-0055 EA 6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-651R).....	2,337.46	328.86
23 09 23 53-0056 EA 6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-660R).....	2,337.46	328.86
23 09 23 53-0057 EA 8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACTalk Field Controller (Alerton VLC-853).....	2,764.57	328.86
23 09 23 53-0058 EA 16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688).....	5,334.45	438.48
23 09 23 53-0059 EA 2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362).....	2,413.59	328.86
23 09 23 53-0060 EA Wireless Door Contact Sensor (Alerton AL-OC-DS).....	156.69	12.33
23 09 23 53-0061 EA One-Speed BACTalk Microset Wall Sensor (Alerton MS-1010-BT).....	249.97	12.33
23 09 23 53-0062 EA One-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT).....	628.20	12.33
23 09 23 53-0063 EA Three-Speed BACTalk Microset Wall Sensor (Alerton MS-1030-BT).....	628.20	12.33
23 09 23 53-0064 EA Three-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT).....	490.38	12.33
23 09 23 53-0065 EA BACnet-Compliant Wall Sensor (Alerton TS-1050-BT).....	169.84	12.33
23 09 23 53-0066 EA Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT).....	662.66	12.33
23 09 23 53-0067 EA Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT).....	742.81	12.33
23 09 23 53-0068 EA 10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0).....	3,367.18	328.86
23 09 23 53-0069 EA 10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8).....	3,564.30	328.86
23 09 23 53-0070 EA 22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0).....	3,394.43	328.86
23 09 23 53-0071 EA 50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM).....	9,450.15	
23 09 23 53-0072 EA Global Controller Base Unit (Alerton ACM).....	5,110.16	328.86
23 09 23 53-0073 EA External Battery Pack For ACM (Alerton ACM-BATT).....	1,112.71	182.93
23 09 23 53-0074 EA Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032).....	834.75	
23 09 23 53-0075 EA Microset 4 Wall Sensor (Alerton MS4-THC).....	972.60	12.33
23 09 23 53-0076 Automated Logic Controls (23 09 23 53)		
23 09 23 53-0077 EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100).....	3,765.17	328.86
23 09 23 53-0078 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320).....	8,603.65	986.59
23 09 23 53-0079 EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx).....	2,672.11	328.86
23 09 23 53-0080 EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx).....	5,455.28	438.48
23 09 23 53-0081 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx).....	5,373.71	438.48
23 09 23 53-0082 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160).....	8,789.69	876.96
23 09 23 53-0083 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx).....	4,843.49	438.48
23 09 23 53-0084 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320).....	4,776.66	328.86
23 09 23 53-0085 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160).....	8,300.26	876.96
23 09 23 53-0086 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642).....	1,855.09	219.24
23 09 23 53-0087 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D).....	1,962.04	219.24
23 09 23 53-0088 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+).....	2,819.41	219.24
23 09 23 53-0089 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+).....	2,727.64	219.24
23 09 23 53-0090 EA Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF).....	2,460.02	328.86
23 09 23 53-0091 EA Unlimited Points, Front End Software For Building Control (Automated Logic WC).....	13,974.53	
23 09 23 53-0092 EA 500 Point, Front End Software For Building Control (Automated Logic WC500).....	8,998.64	
23 09 23 53-0093 EA Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE).....	11,292.70	

23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0095 Wireless Pneumatic Thermostat <small>(23 09 23 53-0094)</small>		
Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.		
23 09 23 53-0096 EA Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP).....	478.08	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-24.04	
For >200, Deduct	-48.05	
23 09 23 53-0097 EA Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP).....	478.08	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-24.04	
For >200, Deduct	-48.05	
23 09 23 53-0098 EA Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP).....	478.08	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-24.04	
For >200, Deduct	-48.05	
23 09 23 53-0099 EA Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP).....	478.08	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-24.04	
For >200, Deduct	-48.05	
23 09 23 53-0100 EA Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP-DB).....	542.49	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-27.63	
For >200, Deduct	-55.20	
23 09 23 53-0101 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP-DB).....	542.49	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-27.63	
For >200, Deduct	-55.20	
23 09 23 53-0102 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB).....	542.49	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-27.63	
For >200, Deduct	-55.20	
23 09 23 53-0103 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP-DB).....	556.35	13.71
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct	-28.40	
For >200, Deduct	-56.74	
23 09 23 53-0104 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV).....	42.08	13.71
Note: Optional cover.		
For >50 To 200, Deduct	-1.58	
For >200, Deduct	-3.15	
23 09 23 53-0105 EA Green Box Controller (Cypress Envirosystems GBC-800-001).....	5,266.89	13.71
Note: One unit for up to 100 thermostats.		
For 2, Deduct	-262.36	
For >2, Deduct	-524.26	
23 09 23 53-0106 EA WPT USB Hub (Cypress Envirosystems WPT-800-HUSB).....	388.18	13.71
Note: One unit for up to 100 thermostats.		
For 2, Deduct	-20.82	
For >2, Deduct	-41.60	
23 09 23 53-0107 EA WPT Repeater (Cypress Envirosystems WPT-800-RWAL).....	686.31	13.71
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct	-34.35	
For >10, Deduct	-68.64	
23 09 23 53-0108 EA 24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V).....	855.45	13.71
Note: One unit for up to 15 thermostats.		
For >5 To 10, Deduct	-39.94	
For >10, Deduct	-79.82	
23 09 23 53-0109 Delta Controls <small>(23 09 23 53)</small>		
23 09 23 53-0110 Software <small>(23 09 23 53-0109)</small>		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0111 EA Orca Software Unlimited Points License (Delta Controls DOW333-USB).....	2,120.95	
23 09 23 53-0112 EA Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB).....	3,387.42	
23 09 23 53-0113 EA Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB).....	7,339.41	
23 09 23 53-0114 EA Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB).....	11,718.64	
23 09 23 53-0115 EA Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB).....	6,072.94	
23 09 23 53-0116 EA Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB).....	2,120.95	
23 09 23 53-0117 EA 100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01).....	4,943.80	
23 09 23 53-0118 EA 1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02).....	6,072.94	
23 09 23 53-0119 EA KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB).....	2,253.10	137.03
23 09 23 53-0120 EA Delta Controls Touch Screen (Delta Controls DHMI-7-I).....	2,313.09	
23 09 23 53-0121 EMCS Central Equipment And Controllers <small>(23 09 23 53-0109)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0122 EA Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616) Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup	8,429.94	548.10
23 09 23 53-0123 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA'S, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E)	6,623.32	548.10
23 09 23 53-0124 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,118.74	548.10
23 09 23 53-0125 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180)	5,118.74	548.10
23 09 23 53-0126 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146)	5,118.74	548.10
23 09 23 53-0127 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	4,843.60	548.10
23 09 23 53-0128 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF)	1,595.84	274.05
23 09 23 53-0129 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,474.46	274.05
23 09 23 53-0130 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	1,555.00	274.05
23 09 23 53-0131 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240)	1,474.46	274.05
23 09 23 53-0132 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616)	3,176.87	342.56
23 09 23 53-0133 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440)	844.08	137.03
23 09 23 53-0134 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404)	895.25	137.03
23 09 23 53-0135 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600)	1,027.98	137.03
23 09 23 53-0136 Network, VAV And Special Sensors <small>(23 09 23 53-0109)</small>		
23 09 23 53-0137 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24)	261.97	43.85
23 09 23 53-0138 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24)	349.15	49.33
23 09 23 53-0139 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B).....	653.87	20.55
23 09 23 53-0140 Honeywell Controls <small>(23 09 23 53)</small>		
23 09 23 53-0141 EMCS Central Equipment And Controllers <small>(23 09 23 53-0140)</small>		
23 09 23 53-0142 EMCS Network Area Controllers (BACnet Or Lon) <small>(23 09 23 53-0141)</small>		
Note: Includes loading software, software license, loading data base and mounting on wall.		
23 09 23 53-0143 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004)	11,264.83	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.		
23 09 23 53-0144 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022)	8,036.51	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).		
23 09 23 53-0145 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201)	6,399.94	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.		
23 09 23 53-0146 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ)	7,702.27	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.		
23 09 23 53-0147 EA Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN).....	6,355.10	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.		
23 09 23 53-0148 EA Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU)	6,355.10	668.00
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.		
23 09 23 53-0149 EA 16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B).....	6,805.51	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0150 EA 16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU).....	7,278.35	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0151 EA 16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	6,805.51	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0152 EA 16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	7,278.35	668.00
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0153 EA 34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B).....	7,282.42	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0154 EA 34 Point Web UI and BACnet IP Network Area Java Controller (Honeywell WEB-234-BU).....	7,755.26	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0155 EA 34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	7,282.42	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0156 EA 34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	7,755.26	668.00
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0157 EA Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX).....	7,679.85	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0158 EA Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only).....	9,259.36	668.00
Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0159 EA Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ).....	9,746.46	668.00
Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0160 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ).....	11,325.98	668.00
Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0161 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....	9,768.88	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0162 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....	12,779.13	668.00
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.		
23 09 23 53-0163 EMCS Network Interfaces (23 09 23 53-0141)		
Note: Includes installation, start-up and tech labor.		
23 09 23 53-0164 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....	1,551.82	184.98
Note: For desktop computer.		
23 09 23 53-0165 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....	1,332.73	123.32
Note: For laptop computer.		
23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010).....	1,716.16	231.30
23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002).....	2,562.99	334.07
23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008).....	1,382.94	334.07
23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B).....	110.77	41.11
23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)		
Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,657.84	955.75
23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,144.00	565.91
23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,873.66	955.75
23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,359.82	622.10
23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,153.61	1,063.73
23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	2,768.16	797.48
23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,908.89	1,063.73



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0178	EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies	3,369.43	813.93
23 09 23 53-0179	EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,389.19	1,063.73
23 09 23 53-0180	EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	1,875.35	628.95
23 09 23 53-0181	EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,671.88	1,063.73
23 09 23 53-0182	EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies	2,157.90	708.42
23 09 23 53-0183	EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	3,087.86	1,063.73
23 09 23 53-0184	EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies	2,563.75	627.57
23 09 23 53-0185	EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	3,370.54	1,063.73
23 09 23 53-0186	EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies	2,846.29	707.04
23 09 23 53-0187	EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	3,820.25	1,063.73
23 09 23 53-0188	EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies	3,352.72	679.64
23 09 23 53-0189	EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies	4,385.63	1,063.73
23 09 23 53-0190	EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies	3,917.96	796.12
23 09 23 53-0191	DDC Programmable Controller Assemblies <small>(23 09 23 53-0141)</small>		
	Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.		
23 09 23 53-0192	EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies	2,753.81	817.08
23 09 23 53-0193	EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies	3,140.25	817.08
23 09 23 53-0194	EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	4,123.68	960.96
23 09 23 53-0195	EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies	4,510.12	960.96
23 09 23 53-0196	EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies	7,289.11	1,125.39
23 09 23 53-0197	EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies	7,735.82	1,125.39
23 09 23 53-0198	EMCS Optional DDC Controller Hardware <small>(23 09 23 53-0141)</small>		
	Note: Used to expand the capacity of DDC programmable controller assemblies.		
23 09 23 53-0199	EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005)	464.68	
	Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0200	EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011)	537.03	
	Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0201	EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001)	562.51	
	Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0202	EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010)	530.92	
23 09 23 53-0203	EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016)	539.07	
23 09 23 53-0204	EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011)	526.84	
23 09 23 53-0205	EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025)	453.47	
23 09 23 53-0206	EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004)	394.37	
23 09 23 53-0207	EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002)	577.80	
23 09 23 53-0208	EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000)	516.65	
23 09 23 53-0209	EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002)	570.66	
23 09 23 53-0210	EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011)	1,211.64	
23 09 23 53-0211	EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017)	1,507.16	
23 09 23 53-0212	EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002)	753.07	
23 09 23 53-0213	EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010)	741.86	
23 09 23 53-0214	EA Hydronic Controller Without Wall Module (Honeywell W7762B1027)	363.80	
23 09 23 53-0215	EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016)	413.73	
23 09 23 53-0216	EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001)	764.28	
23 09 23 53-0217	EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001)	817.27	
23 09 23 53-0218	EA AI Module (Honeywell XFL521B)	511.56	
23 09 23 53-0219	EA AO Module (Honeywell XFL522B)	511.56	
23 09 23 53-0220	EA DI Module (Honeywell XFL523B)	511.56	
23 09 23 53-0221	EA DO Module (Honeywell XFL524B)	511.56	
23 09 23 53-0222	EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511)	90.69	
23 09 23 53-0223	EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513)	171.20	
23 09 23 53-0224	EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514)	168.14	
23 09 23 53-0225	EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI)	514.62	
23 09 23 53-0226	EA Lon Hub (Honeywell XIO-HUB)	76.43	
23 09 23 53-0227	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO)	514.62	
23 09 23 53-0228	EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI)	473.85	
23 09 23 53-0229	EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO)	473.85	
23 09 23 53-0230	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC)	499.33	
23 09 23 53-0231	EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000)	499.33	
23 09 23 53-0232	EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI)	718.42	
23 09 23 53-0233	EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16)	847.84	
	Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.		
23 09 23 53-0234	EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005)	1,801.66	
	Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
23 09 23 53-0235	EMCS Software <small>(23 09 23 53-0140)</small>		
23 09 23 53-0236	Software Packages And License <small>(23 09 23 53-0235)</small>		
	Note: Includes installation on equipment.		
23 09 23 53-0237	EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB)	574.74	
	Note: Requires UI services to be installed on NAC.		
23 09 23 53-0238	EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX)	2,270.25	
	Note: Upgrade existing network area controller. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0239 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX).....	6,419.95	
Note: Includes Archon database. WEBs controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 53-0240 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS).....	3,821.40	
Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 53-0241 EA Upgrade Small Building To Large Building Software	4,410.23	
Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 53-0242 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W)	3,137.30	
Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 53-0243 EA WEBs Energy Suite (WES) Base Software (Honeywell WES-BASE-AX).....	5,526.94	
Note: Includes license for 10 points of E ² Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E ² Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 53-0244 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E ² Profiler Points (Honeywell WES-CP-AX)	793.50	
Note: Can be combined with the required single instance of VES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 53-0245 EA Perpetual License For One Point Of E ² Profiler (Honeywell WES-E2-AX).....	554.03	
Note: Can be combined with the required single instance of VES-BASE as well as with any number of other EP Points and Cost Profiler meters.		
23 09 23 53-0246 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters	29,580.36	
Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.		
23 09 23 53-0247 EA Annual Maintenance For Enterprise WEBs-AX Energy Suite (Honeywell WES-M1-ENT-AX).....	27,008.89	
Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 53-0248 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX)	10,237.28	
23 09 23 53-0249 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS).....	7,638.72	
23 09 23 53-0250 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500)	2,208.26	
23 09 23 53-0251 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500)	2,208.26	
23 09 23 53-0252 EA Vykron Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL).....	15,285.60	
Note: Excludes Oracle.		
23 09 23 53-0253 EA Open System Driver Option (Honeywell WS-SNMP-500).....	2,038.08	
Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchased with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 53-0254 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500)	2,208.26	
23 09 23 53-0255 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003).....	5,774.90	
Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 53-0256 EA WEBStation Additional Node (Honeywell ZW2000B1002).....	2,208.26	
23 09 23 53-0257 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001).....	37,025.80	
23 09 23 53-0258 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000).....	67,936.34	
23 09 23 53-0259 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009)	118,888.34	
23 09 23 53-0260 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008).....	6,114.24	
23 09 23 53-0261 EA Additional Master WEBStation Software Licenses (Honeywell ZW200G1007).....	3,057.12	
23 09 23 53-0262 EA Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....	2,509.57	
23 09 23 53-0263 EA Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055).....	2,728.81	
Note: As with other WEBs, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0264 Initial Database Generation (23 09 23 53-0235)		
23 09 23 53-0265 PNT Database Generation For Central Plant.....	91.94	
23 09 23 53-0266 PNT Database Generation For Programmable Controller.....	91.94	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0267 EA Database Generation For Application Specific Controller.....	91.94	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0268 EA Replication Of Database Generation For Application Specific Controller.....	63.99	
Note: Price per copy made.		
23 09 23 53-0269 EA Database Generation For Remote IO Modules, Sensors, Etcetera	63.99	
23 09 23 53-0270 Application Software Programs (23 09 23 53-0235)		
23 09 23 53-0271 EA Basic Application Program Package.....	3,836.69	
Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic.		
23 09 23 53-0272 EA Optimum Start/Stop Program.....	128.26	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0273 EA Duty Cycling Program.....	60.57	
23 09 23 53-0274 EA Hot Deck/Cold Deck Reset Application Program	6,591.30	
23 09 23 53-0275 EA Boiler Optimization Program	8,637.48	
23 09 23 53-0276 EA Chiller Optimization Program	11,700.34	
23 09 23 53-0277 EA Lighting Control Program	5,646.14	
23 09 23 53-0278 EA Demand Limiting Program	112.50	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0279 EA Email Alarm Server Configuration.....	4,355.75	
23 09 23 53-0280 Color Graphics Generation (23 09 23 53-0235)		
Note: Priced per page.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0281 EA Single Site Home Page Graphics Page With HTML Navigation Code.....	2,299.02	
23 09 23 53-0282 EA Multi Site Home Page Graphics Page With HTML Navigation Code.....	4,081.82	
23 09 23 53-0283 EA Color Graphics Page For Central Plant	1,044.54	
23 09 23 53-0284 EA Color Graphics Page For Building Floor Plan	964.52	
23 09 23 53-0285 EA Replication Of Color Graphics Page For Central Plant	523.98	
23 09 23 53-0286 EA Color Graphics Page For Programmable Controller	1,175.13	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0287 EA Replication Of Color Graphics Page For Programmable Controller.....	251.30	
Note: Priced per copy made.		
23 09 23 53-0288 EA Color Graphics Page For Application Specific Controller.....	1,086.88	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0289 EA Replication Of Color Graphics Page For Application Specific Cont.....	108.66	
Note: Priced per copy made.		
23 09 23 53-0290 Sensors, Actuators And Control Devices <small>(23 09 23 53-0140)</small>		
Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		
23 09 23 53-0291 Special Sensors <small>(23 09 23 53-0290)</small>		
23 09 23 53-0292 EA Dewpoint Sensor (Honeywell C7232B1014).....	1,886.34	84.82
23 09 23 53-0293 EA Enthalpy Sensor -25 To 125 F.....	1,965.08	84.82
23 09 23 53-0294 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002)	983.89	169.64
23 09 23 53-0295 EA Freezestat (Honeywell L482A1004).....	699.37	282.68
23 09 23 53-0296 EA Wall Mounted Occupancy Sensor.....	477.23	84.82
23 09 23 53-0297 EA Ceiling Mounted Occupancy Sensor.....	390.43	84.82
23 09 23 53-0298 EA I/P Positioner With Gauge.....	458.09	84.82
23 09 23 53-0299 EA Non Communicating Duct Mounted Smoke Detector With Sampling Tube	549.72	84.82
23 09 23 53-0300 EA EP Transducer.....	458.09	56.59
23 09 23 53-0301 EA Electric Heat Sequencer	737.86	113.04
23 09 23 53-0302 Meters <small>(23 09 23 53-0290)</small>		
23 09 23 53-0303 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer	4,661.89	678.28
23 09 23 53-0304 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface	6,830.23	791.32
23 09 23 53-0305 EA 1 To 300 Amperes, Current Transformer For KW Meter	1,687.49	282.68
23 09 23 53-0306 EA 300 To 800 Amperes, Current Transformer For KW Meter.....	1,890.37	282.68
23 09 23 53-0307 EA 800 To 2,400 Amperes, Current Transformer For KW Meter.....	2,279.46	282.68
23 09 23 53-0308 Direct Coupled Actuators <small>(23 09 23 53-0290)</small>		
23 09 23 53-0309 EA 44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....	649.13	115.63
23 09 23 53-0310 EA 88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....	706.28	115.63
23 09 23 53-0311 EA 175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....	804.56	115.63
23 09 23 53-0312 EA 44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....	615.68	115.63
23 09 23 53-0313 EA 88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....	677.15	115.63
23 09 23 53-0314 EA 175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....	738.02	115.63
23 09 23 53-0315 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....	680.51	115.63
23 09 23 53-0316 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....	768.16	115.63
23 09 23 53-0317 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....	862.77	115.63
23 09 23 53-0318 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209)	570.08	115.63
23 09 23 53-0319 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209)	616.75	115.63
23 09 23 53-0320 EA 175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....	710.51	115.63
23 09 23 53-0321 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007)	754.65	115.63
23 09 23 53-0322 EA 300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....	754.10	115.63
23 09 23 53-0323 EA 300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008)	875.13	115.63
23 09 23 53-0324 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....	589.21	115.63
23 09 23 53-0325 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....	1,000.23	115.63
23 09 23 53-0326 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator	453.86	115.63
23 09 23 53-0327 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use.....	674.78	115.63
23 09 23 53-0328 Thermostats <small>(23 09 23 53-0140)</small>		
23 09 23 53-0329 Electric And Electronic Thermostats <small>(23 09 23 53-0328)</small>		
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		
23 09 23 53-0330 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018)	219.02	20.55
23 09 23 53-0331 EA Electronic Non Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320)	233.51	20.55
23 09 23 53-0332 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110)	217.41	20.55
23 09 23 53-0333 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220)	239.46	20.55

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0334 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....	256.04	20.55
23 09 23 53-0335 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....	362.25	20.55
23 09 23 53-0336 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F).....	513.53	20.55
23 09 23 53-0337 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....	812.65	20.55
23 09 23 53-0338 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M).....	864.62	20.55
23 09 23 53-0339 Pneumatic Thermostats (23 09 23 53-0328) Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 53-0340 EA Pneumatic Thermostat (Honeywell TP970B2182).....	285.00	20.55
23 09 23 53-0341 Thermostats Guards (23 09 23 53-0328)		
23 09 23 53-0342 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....	72.41	20.55
23 09 23 53-0343 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511).....	84.48	20.55
23 09 23 53-0344 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510).....	80.14	20.55
23 09 23 53-0345 Johnson Controls (23 09 23 53)		
23 09 23 53-0346 Software (23 09 23 53-0345) Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0347 EA 5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0).....	16,476.94	
23 09 23 53-0348 EA 10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0).....	19,467.46	
23 09 23 53-0349 EA N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0).....	1,059.53	
23 09 23 53-0350 EA N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2).....	1,552.37	
23 09 23 53-0351 EA BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0).....	2,670.39	
23 09 23 53-0352 EA BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0).....	1,067.87	
23 09 23 53-0353 EA New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0).....	1,062.93	
23 09 23 53-0354 EA Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6).....	452.75	
23 09 23 53-0355 Supervisory Controllers (23 09 23 53-0345)		
23 09 23 53-0356 EA NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2).....	8,242.65	548.10
23 09 23 53-0357 EA NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2).....	12,186.63	548.10
23 09 23 53-0358 EA NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1).....	16,139.35	548.10
23 09 23 53-0359 EA NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0).....	6,723.45	548.10
23 09 23 53-0360 Controllers (23 09 23 53-0345)		
23 09 23 53-0361 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0).....	967.21	137.03
23 09 23 53-0362 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0).....	1,230.19	274.05
23 09 23 53-0363 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0).....	1,699.73	274.05
23 09 23 53-0364 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0).....	1,962.71	274.05
23 09 23 53-0365 EA BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0).....	816.34	137.03
23 09 23 53-0366 EA BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0).....	883.39	137.03
23 09 23 53-0367 EA BACnet MS/TP 12 Point I/O Module with 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0).....	983.98	137.03
23 09 23 53-0368 EA 17 Point I/O Module with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IU4710-0).....	997.39	137.03
23 09 23 53-0369 EA BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2).....	2,031.13	274.05
23 09 23 53-0370 EA 32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0).....	980.39	137.03
23 09 23 53-0371 EA 32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0).....	1,363.69	137.03
Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications		
23 09 23 53-0372 Master FX Controllers (23 09 23 53-0345)		
23 09 23 53-0373 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....	2,493.77	274.05
23 09 23 53-0374 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....	2,652.83	274.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0375 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....	2,731.87	274.05
23 09 23 53-0376 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....	2,683.83	274.05
23 09 23 53-0377 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....	2,608.76	274.05
23 09 23 53-0378 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....	2,620.80	274.05
23 09 23 53-0379 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....	2,608.76	274.05
23 09 23 53-0380 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....	2,653.00	274.05
23 09 23 53-0381 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....	2,790.37	274.05
23 09 23 53-0382 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....	2,881.94	274.05
23 09 23 53-0383 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....	2,836.15	274.05
23 09 23 53-0384 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....	2,742.42	274.05
23 09 23 53-0385 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C).....	2,653.00	274.05
23 09 23 53-0386 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C).....	2,790.37	274.05
23 09 23 53-0387 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....	2,881.94	274.05
23 09 23 53-0388 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....	2,836.15	274.05
23 09 23 53-0389 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....	2,742.42	274.05
23 09 23 53-0390 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....	299.28	68.51
23 09 23 53-0391 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....	411.97	68.51
23 09 23 53-0392 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....	330.91	68.51
23 09 23 53-0393 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....	299.28	68.51
23 09 23 53-0394 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....	819.16	68.51
23 09 23 53-0395 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	761.20	68.51
23 09 23 53-0396 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	774.77	68.51
23 09 23 53-0397 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	774.77	68.51
23 09 23 53-0398 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	842.57	68.51
23 09 23 53-0399 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	842.57	68.51
23 09 23 53-0400 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	1,037.49	68.51
23 09 23 53-0401 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....	1,037.49	68.51
23 09 23 53-0402 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....	1,147.66	68.51
23 09 23 53-0403 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....	1,147.66	68.51
23 09 23 53-0404 VAV, Network And Special Sensors (23 09 23 53-0345)		
23 09 23 53-0405 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....	527.53	43.85
23 09 23 53-0406 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....	195.00	43.85
23 09 23 53-0407 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....	414.56	43.85
23 09 23 53-0408 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0).....	606.31	43.85
23 09 23 53-0409 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....	219.90	43.85
23 09 23 53-0410 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....	552.24	43.85
23 09 23 53-0411 Sensors - Hard Wired Type (23 09 23 53-0345)		
23 09 23 53-0412 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....	212.33	78.93
23 09 23 53-0413 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....	166.53	43.85
23 09 23 53-0414 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....	416.76	20.55
Note: For fan coil units, unit heaters and single stage packaged heating/cooling equipment.		
23 09 23 53-0415 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....	554.38	20.55
Note: For two or four pipe fan coils, cabinet unit heaters or other equipment using on/off, floating, or proportional 0 to 10 Volt DC control input, three speeds of fan control, and dehumidification capability.		
23 09 23 53-0416 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....	417.52	20.55
Note: For VVT systems.		
23 09 23 53-0417 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....	539.96	43.85
23 09 23 53-0418 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR).....	659.07	43.85
23 09 23 53-0419 Melink Intelli-Hood IH3 Controls (23 09 23 53)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
23 09 23 53-0420		Kitchen Ventilation Controllers <small>(23 09 23 53-0419)</small>		
23 09 23 53-0421	EA	Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001)..... Note: RS-485 communication protocol supports up to 39 Hood Controllers, 10 graphical user interface devices, 10 auxiliary power supplies, and 10 auxiliary light controllers. Modbus VFD communications interface for support of up to 64 variable frequency drives, programmable I/O points. Includes 3 digital inputs, 4 digital outputs, 1 analog output, and 1 analog input. BACnet over TCP/IP Interface, Real-Time Clock with battery back-up.	9,395.07	548.10
23 09 23 53-0422	EA	Graphical User Interface (Melink Intelli-Hood 2KPD-3001)..... Note: Full color 2.5" display and programming interface device. RS-485 communication protocol for interface with main controller.	1,655.45	113.04
23 09 23 53-0423	EA	Hood Controller (Melink Intelli-Hood 2SEN-3001)..... Note: 6 point field I/O device, RS-485 communication protocol, supports up to 4 field temperature sensors and 1 optic sensor system.	2,908.88	456.29
23 09 23 53-0424		Kitchen Ventilation Sensors <small>(23 09 23 53-0419)</small>		
23 09 23 53-0425	EA	Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q)..... Note: Includes UL listed mounting compression fitting, stainless steel probe protection sleeve, RJ-45 communication connector.	513.08	78.93
23 09 23 53-0426	EA	Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28)..... Note: Includes air purge unit, infrared emitter/receiver with stainless steel housings. Auto-calibration, 0.2 second response time, conformal-coated circuit boards, purge pipe assembly complete with UL listed compression fittings, communication interface cables and blower box assembly.	4,253.44	438.48
23 09 23 53-0427		Siemens Controls <small>(23 09 23 53)</small>		
23 09 23 53-0428	EA	Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083).....	403.21	20.55
23 09 23 53-0429	EA	Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085).....	292.82	20.55
23 09 23 53-0430	EA	SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....	332.41	92.57
23 09 23 53-0431	EA	-0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591).....	473.34	92.57
23 09 23 53-0432	EA	Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....	67.01	13.71
23 09 23 53-0433	EA	Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001).....	226.47	137.03
23 09 23 53-0434	EA	3/4" Two Way, Normally Closed, 6.3 Cv, FxF, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012).....	363.21	24.51
23 09 23 53-0435	EA	1" Three Way, 10 Cv, FxF, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079).....	641.53	44.49
23 09 23 53-0436	EA	1" Three Way, 10 Cv, FxF, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203).....	1,260.53	44.49
23 09 23 53-0437	EA	1-1/4" Two Way, 16 Cv, FxF, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006).....	1,079.02	56.36
23 09 23 53-0438	EA	36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36).....	324.01	78.93
23 09 23 53-0439	EA	-58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768).....	257.85	43.85
23 09 23 53-0440	EA	Unit Conditioner Controller With Secure Mode (Siemens 540-110C).....	1,476.59	219.24
23 09 23 53-0441	EA	9-Pin, Female To RJ-11 Cable (Siemens 540-143).....	98.31	6.85
23 09 23 53-0442	EA	Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....	1,661.19	219.24
23 09 23 53-0443	EA	MMI Extension Cable (Siemens 545-712).....	178.44	6.85
23 09 23 53-0444	EA	Remote Pressure Transmitter (Siemens 547-003).....	1,232.65	43.85
23 09 23 53-0445	EA	Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....	846.96	109.62
23 09 23 53-0446	EA	BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....	698.48	109.62
23 09 23 53-0447	EA	Door Lock And Key Assembly (Siemens 567-225).....	42.54	27.40
23 09 23 53-0448	EA	Insight Advanced Software Package (Siemens 571-010-381-USB)..... Note: Includes one user license and one sentinel key.	12,314.19	
23 09 23 53-0449	EA	BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....	546.09	
23 09 23 53-0450	EA	Soft Controller Option For Insight Advanced Software Package (Siemens 571-620).....	2,802.66	
23 09 23 53-0451	EA	1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....	427.22	14.80
23 09 23 53-0452	EA	2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062).....	891.42	25.64
23 09 23 53-0453	EA	Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....	12,295.57	548.10
23 09 23 53-0454	EA	SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modern With HOA (Siemens 986-83482F).....	13,723.18	548.10
23 09 23 53-0455	EA	7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....	157.80	20.55
23 09 23 53-0456	EA	Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxiliary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....	651.44	115.63
23 09 23 53-0457	EA	Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U).....	676.22	115.63
23 09 23 53-0458	EA	License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-36.A).....	3,547.37	
23 09 23 53-0459	EA	License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN).....	716.31	
23 09 23 53-0460	EA	License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A).....	2,305.37	
23 09 23 53-0461	EA	License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM-FPWEB).....	1,650.33	
23 09 23 53-0462	EA	License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A).....	1,418.70	
23 09 23 53-0463	EA	License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP).....	4,194.32	
23 09 23 53-0464	EA	16-Switch HOA Upgrade Kit (Siemens PXA16-M).....	674.52	2.74
23 09 23 53-0465	EA	16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR).....	751.92	10.96
23 09 23 53-0466	EA	8-Switch HOA Upgrade Kit (Siemens PXA8-M).....	384.70	2.74
23 09 23 53-0467	EA	18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....	474.02	27.40
23 09 23 53-0468	EA	19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....	752.19	27.40
23 09 23 53-0469	EA	34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....	996.48	27.40



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0470 EA	Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24-Point Compact Series (Siemens PXA-HMI.CABLEP5).....	40.81	13.71
23 09 23 53-0471 EA	115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....	950.16	68.51
23 09 23 53-0472 EA	115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....	1,348.23	68.51
23 09 23 53-0473 EA	230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....	1,096.82	68.51
23 09 23 53-0474 EA	230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....	1,515.86	68.51
23 09 23 53-0475 EA	PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....	7,316.70	767.34
23 09 23 53-0476 EA	PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....	5,627.02	219.24
23 09 23 53-0477 EA	Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....	9,560.78	876.96
23 09 23 53-0478 EA	16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....	3,405.81	411.08
23 09 23 53-0479 EA	16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....	3,689.99	411.08
23 09 23 53-0480 EA	16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....	3,501.69	411.08
23 09 23 53-0481 EA	24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....	4,207.99	438.48
23 09 23 53-0482 EA	24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....	4,404.21	438.48
23 09 23 53-0483 EA	24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....	4,355.53	438.48
23 09 23 53-0484 EA	24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-ERF.A).....	4,531.34	438.48
23 09 23 53-0485 EA	24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....	4,351.10	438.48
23 09 23 53-0486 EA	24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....	4,530.14	438.48
23 09 23 53-0487 EA	36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....	6,879.25	767.34
23 09 23 53-0488 EA	36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....	10,556.82	876.96
23 09 23 53-0489 EA	License To Enable The Island Bus On PXC00-E96.A and PXC00-PE96.A (Siemens PXC-TXIO.A).....	1,064.24	
23 09 23 53-0490 EA	Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....	647.53	54.81
23 09 23 53-0491 EA	Controller Mounted Operator Display Module (Siemens PXM10T).....	806.66	109.62
23 09 23 53-0492 EA	Provides FLN Support For The PXC Modular (Siemens PXX-485.3)..... Note: Includes Three RS-485 P1 FLN Connections Or One MS/TP FLN Connection, Maximum Of 96 Devices Supported	740.07	27.40
23 09 23 53-0493 EA	Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN).....	385.63	78.93
23 09 23 53-0494 EA	Digital Temperature Room Unit For TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....	262.07	43.85
23 09 23 53-0495 EA	4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....	175.36	43.85
23 09 23 53-0496 EA	8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	233.66	78.93
23 09 23 53-0497 EA	24' Flexible Averaging Probe (Siemens QAM2012.750).....	352.00	78.93
23 09 23 53-0498 EA	2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	285.17	78.93
23 09 23 53-0499 EA	10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	3,055.58	441.49
23 09 23 53-0500 EA	Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	37.80	13.71
23 09 23 53-0501 EA	Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.70	
23 09 23 53-0502 EA	16 Digital Input Module (Siemens TXM1.16D).....	570.93	13.71
23 09 23 53-0503 EA	6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	842.06	13.71
23 09 23 53-0504 EA	8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	1,325.91	27.40
23 09 23 53-0505 EA	1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....	488.97	43.85
23 09 23 53-0506	Trane Controls (23 09 23 53)		
23 09 23 53-0507	Software (23 09 23 53-0506)		
	Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0508 EA	Summit + Building Management Package (Trane 40201152).....	6,180.04	
23 09 23 53-0509 EA	Summit Current Version Software (Trane 40201111).....	3,538.43	
23 09 23 53-0510 EA	Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....	827.11	
23 09 23 53-0511 EA	Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....	3,519.30	
23 09 23 53-0512 EA	Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....	9,519.59	
23 09 23 53-0513	EMCS Central Equipment And Controllers (23 09 23 53-0506)		
23 09 23 53-0514 EA	Summit BTMX Operator Display Upgrade (Trane 40201224).....	6,418.87	548.10
23 09 23 53-0515 EA	Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....	13,131.58	548.10
23 09 23 53-0516 EA	Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....	13,131.58	548.10
23 09 23 53-0517 EA	Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....	11,674.01	548.10
23 09 23 53-0518 EA	Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....	13,368.71	548.10
23 09 23 53-0519 EA	Summit CCP Upgrade ROM Kit (Trane 40201095).....	221.40	34.26
23 09 23 53-0520 EA	Summit Comm5 Repeater (Trane 49500457).....	1,718.21	274.05
23 09 23 53-0521 EA	AHU Controller MP580/581 E Board Only (Trane 40201157).....	2,791.20	342.56
23 09 23 53-0522 EA	AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....	3,551.74	411.08
23 09 23 53-0523 EA	AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....	2,878.22	411.08
23 09 23 53-0524 EA	AHU Controller MP581 Operator Door Display (Trane 40201156).....	2,498.22	411.08
23 09 23 53-0525 EA	AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....	2,495.30	411.08
23 09 23 53-0526 EA	Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....	1,075.73	137.03
23 09 23 53-0527 EA	Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....	992.01	137.03
23 09 23 53-0528 EA	Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....	1,816.65	274.05
23 09 23 53-0529 EA	Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....	1,747.22	274.05
23 09 23 53-0530 EA	2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....	961.34	137.03
23 09 23 53-0531 EA	2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....	860.53	137.03
23 09 23 53-0532 EA	4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....	1,209.41	137.03
23 09 23 53-0533 EA	4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....	1,109.14	137.03
23 09 23 53-0534 EA	Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500499).....	970.32	137.03
23 09 23 53-0535 EA	Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....	931.44	137.03
23 09 23 53-0536 EA	Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....	1,050.03	137.03

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 09 23 53-0537	EA	Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470)	970.32	137.03
23 09 23 53-0538	EA	DDC VAV Retrofit Kit (Trane VRTODD01)	1,437.28	274.05
23 09 23 53-0539	EA	DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO)	1,536.43	274.05
23 09 23 53-0540		Network, VAV And Special Sensors (23 09 23 53-0506)		
23 09 23 53-0541	EA	Digital Display Zone Sensor (Trane X13790464010).....	223.91	43.85
23 09 23 53-0542	EA	Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010).....	158.94	43.85
23 09 23 53-0543	EA	Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010).....	147.98	43.85
23 09 23 53-0544	EA	Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01).....	272.83	49.33
23 09 23 53-0545	EA	Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121).....	173.88	43.85
23 09 23 53-0546	EA	Zone Sensor LCD O/C Setpoint (Trane 41901120).....	173.88	43.85
23 09 23 53-0547	EA	Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010).....	558.18	78.93
23 09 23 53-0548	EA	Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010).....	492.41	43.85
23 09 23 53-0549	EA	Transformer 120/24 40 VA (Trane X13550284010).....	142.50	43.85
23 09 23 53-0550	EA	Transformer 24 Volt AC Wall Plug-In (Trane 35803005).....	138.58	43.85
23 09 23 53-0551	EA	Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022).....	132.32	43.85
23 09 23 53-0552	EA	Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010).....	1,575.64	274.05
23 09 23 53-0553	EA	Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010).....	1,522.15	274.05
23 09 23 53-0554	EA	Controller UC400 XM32 Module (4 Relay) (Trane X13651563010).....	1,410.69	274.05
23 09 23 53-0555	EA	Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010).....	2,434.34	411.08
23 09 23 53-0556	EA	Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010).....	1,410.69	274.05
23 09 23 53-0557	EA	Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011).....	1,467.15	274.05
23 09 23 53-0558	EA	Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011).....	1,471.75	274.05
23 09 23 53-0559	EA	Controller Optional Metal Enclosure, UC210 (Trane 501898).....	572.86	272.89
23 09 23 53-0560	EA	Controller UC400 PM014 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801).....	761.40	272.89
23 09 23 53-0561	EA	Controller Tracer UC600 Controller (Trane BMUC600AAA0100011).....	2,671.53	411.08
23 09 23 53-0562	EA	Controller UC600 Tracer TD7 Display (Trane X13651571010).....	2,585.42	411.08
23 09 23 53-0563	EA	Controller UC600 TD7 Mounting Bracket (Trane X05010511010).....	162.07	54.61
23 09 23 53-0564	EA	Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010).....	530.99	54.61
23 09 23 53-0565	EA	SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010).....	2,724.76	411.08
23 09 23 53-0566	EA	BACnet Term (2 Pack) (Trane X1365152401).....	263.27	98.24
23 09 23 53-0567	EA	Tracer ES Add License (Trane X40250125010).....	3,330.59	
23 09 23 53-0568	EA	Kit - Tracer TU For Controls (Trane X4509151201).....	4,778.77	548.10
23 09 23 53-0569	EA	Kit - Tracer TU Complete (Trane X4509151301).....	6,090.74	548.10
23 09 23 53-0570	EA	Tracer TU Adapter Wired/Wireless (Trane X13651529010).....	595.18	98.24
23 09 23 53-0571	EA	Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010).....	364.25	98.24
23 09 23 53-0572	EA	Sensor Wireless Display Sensor (Trane X13790822010).....	404.96	98.24
23 09 23 53-0573	EA	Sensor Wireless Receiver, 100mW (Trane X13790854010).....	368.17	98.24
23 09 23 53-0574	EA	Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010).....	480.63	98.24
23 09 23 53-0575	EA	Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010).....	518.97	98.24
23 09 23 53-0576		Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators (23 09 23 53)		
23 09 23 53-0577		Current Switches And Current Sensors (23 09 23 53-0576)		
23 09 23 53-0578	EA	Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203).....	150.33	43.85
23 09 23 53-0579	EA	Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205).....	155.02	43.85
23 09 23 53-0580	EA	0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L).....	223.91	43.85
23 09 23 53-0581	EA	0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24).....	144.06	43.85
23 09 23 53-0582	EA	0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA).....	383.60	43.85
23 09 23 53-0583	EA	0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC).....	254.95	43.85
23 09 23 53-0584	EA	1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volt, Current Switch (Veris H709).....	201.35	43.85
23 09 23 53-0585	EA	0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721).....	201.35	43.85
23 09 23 53-0586	EA	Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC).....	4,775.32	219.24
23 09 23 53-0587	EA	100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2).....	1,206.64	43.85
23 09 23 53-0588	EA	Note: 3 phase networked transducer. 2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163-2400-4-3).....	1,819.26	43.85
23 09 23 53-0589	EA	Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV).....	213.95	43.85
23 09 23 53-0590	EA	Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800).....	353.22	116.48
23 09 23 53-0591	EA	Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900).....	353.60	116.48
23 09 23 53-0592	EA	Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708).....	372.39	116.48
23 09 23 53-0593	EA	Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908).....	377.08	116.48
23 09 23 53-0594	EA	Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904).....	403.70	116.48
23 09 23 53-0595	EA	Toggle Switch.....	148.93	54.81
23 09 23 53-0596	EA	Maintained Pushbutton Switch.....	156.59	54.81
23 09 23 53-0597	EA	Manual Time Switch.....	228.87	54.81
23 09 23 53-0598	EA	Emergency Stop Switch.....	358.10	54.81
23 09 23 53-0599	EA	Float Switch.....	382.89	54.81
23 09 23 53-0600	EA	Break Glass Switch.....	1,125.39	54.81
23 09 23 53-0601	EA	Boiler E-Stop Switch.....	769.17	54.81
23 09 23 53-0602		Relays (23 09 23 53-0576)		
23 09 23 53-0603	EA	DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V).....	129.19	43.85
23 09 23 53-0604	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1).....	138.82	43.85
23 09 23 53-0605	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B).....	191.61	54.81
23 09 23 53-0606	EA	Note: Box type. Motor Starter Interface, 300msec Pulse (Kele PIL-2).....	225.19	43.85



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 09 23 53-0607 EA DP Relay Socket, DIN Rail Mounted (Kele SH2B-05)	122.21	43.85
	23 09 23 53-0608 EA SP Relay Socket, DIN Rail Mounted (Kele SH1B-05)	120.80	43.85
	23 09 23 53-0609 EA SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V)	129.19	43.85
	23 09 23 53-0610 EA DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V)	133.59	43.85
	23 09 23 53-0611 EA SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-UAC24V)	134.79	43.85
	23 09 23 53-0612 EA SPDT Pilot Relay, Universal (Kele RIBU1C)	151.04	54.81
	Note: Box type.		
	23 09 23 53-0613 EA SPST Pilot Relay With HOA Switch (Kele RIBU1S)	190.34	54.81
	Note: Box type.		
	23 09 23 53-0614 EA SPDT 3 Phase Line Voltage Monitor, 1-5 Minute Delay On Break Timer (ICM400)	311.53	54.81
	23 09 23 53-0615 EA SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450)	309.79	54.81
23 09 23 53-0616	Transformers (23 09 23 53-0576)		
	23 09 23 53-0617 EA 50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA)	149.29	43.85
	23 09 23 53-0618 EA 75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB)	160.22	43.85
	23 09 23 53-0619 EA 75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA)	160.22	43.85
	23 09 23 53-0620 EA 100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB)	170.11	43.85
	23 09 23 53-0621 EA 100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA)	176.20	43.85
23 09 23 53-0622	Power Supplies (23 09 23 53-0576)		
	23 09 23 53-0623 EA Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA)	210.77	43.85
	23 09 23 53-0624 EA AC/DC Power Supply, 1.2 Amperes At 24 Volt Output (Kele DCPA-1.2)	241.10	43.85
	23 09 23 53-0625 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524)	227.43	43.85
	23 09 23 53-0626 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D)	233.90	43.85
	23 09 23 53-0627 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H)	228.14	43.85
	23 09 23 53-0628 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P)	237.78	43.85
	23 09 23 53-0629 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C)	184.71	43.85
23 09 23 53-0630	Control Damper Actuators (23 09 23 53-0576)		
	23 09 23 53-0631 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR)	543.64	115.79
	23 09 23 53-0632 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR)	580.26	115.79
	23 09 23 53-0633 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP)	640.24	115.79
	23 09 23 53-0634 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR)	668.90	115.79
	23 09 23 53-0635 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR)	685.91	115.79
	23 09 23 53-0636 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR)	752.78	115.79
23 09 43	Pneumatic Control System For HVAC (23 09)		
23 09 43 00-0001	Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)		
23 09 43 00-0002	Polyurethane Pneumatic Tubing (23 09 43 00-0001)		
	23 09 43 00-0003 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing	2.77	1.17
	23 09 43 00-0004 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	3.34	1.20
	23 09 43 00-0005 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	4.16	1.24
	23 09 43 00-0006 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing	5.09	1.27
23 09 43 00-0007	Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)		
	23 09 43 00-0008 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.55	1.17
	23 09 43 00-0009 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	2.71	1.20
	23 09 43 00-0010 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	3.02	1.24
	23 09 43 00-0011 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing	3.59	1.27
23 09 43 00-0012	Nylon Pneumatic Tubing (23 09 43 00-0001)		
	23 09 43 00-0013 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing	2.86	1.13
	23 09 43 00-0014 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing	3.59	1.17
	23 09 43 00-0015 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing	5.09	1.24
	23 09 43 00-0016 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing	6.33	1.27
23 09 43 00-0017	Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)		
	23 09 43 00-0018 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	2.84	1.17
	23 09 43 00-0019 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.18	1.24
	23 09 43 00-0020 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing	4.91	1.27
	23 09 43 00-0021 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing	5.83	1.31
	23 09 43 00-0022 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing	6.51	1.34
	23 09 43 00-0023 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing	8.63	1.38
23 09 43 00-0024	Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 09 Instrumentation and Control for HVAC****23 09 43 Pneumatic Control System For HVAC**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 43 00-0025	LF		5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....	3.68	1.31
23 09 43 00-0026	LF		3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....	4.16	1.34
23 09 43 00-0027	LF		1" Outside Diameter Braided Vinyl Pneumatic Tubing.....	5.02	1.38
23 09 43 00-0028			Copper Pneumatic Tubing (23 09 43 00-0001)		
23 09 43 00-0029	LF		1/4" Outside Diameter Copper Pneumatic Tubing.....	5.94	2.51
23 09 43 00-0030	LF		3/8" Outside Diameter Copper Pneumatic Tubing.....	7.12	2.89
23 09 43 00-0031	LF		1/2" Outside Diameter Copper Pneumatic Tubing.....	8.23	3.33
23 09 43 00-0032	LF		5/8" Outside Diameter Copper Pneumatic Tubing.....	9.96	3.83
23 09 43 00-0033	LF		3/4" Outside Diameter Copper Pneumatic Tubing.....	11.37	4.40
23 09 43 00-0034			Brass Couplings (23 09 43 00-0001) See CSI section 22 11 16 00-0368 for copper tubing.		
23 09 43 00-0035			Straight Brass Couplings (23 09 43 00-0034) Note: Barb x Barb		
23 09 43 00-0036	EA		1/4" x 1/4" Straight Brass Coupling.....	13.33	6.34
23 09 43 00-0037	EA		3/8" x 1/4" Straight Brass Coupling.....	13.44	6.34
23 09 43 00-0038	EA		3/8" x 3/8" Straight Brass Coupling.....	13.54	6.34
23 09 43 00-0039			Elbow Brass Couplings (23 09 43 00-0034) Note: Barb x Barb		
23 09 43 00-0040	EA		1/4" x 1/4" Elbow Brass Coupling.....	13.93	6.34
23 09 43 00-0041	EA		3/8" x 3/8" Elbow Brass Coupling.....	14.29	6.34
23 09 43 00-0042			Tee Brass Couplings (23 09 43 00-0034) Note: Barb x Barb		
23 09 43 00-0043	EA		1/4" x 1/4" x 1/4" Tee Brass Coupling.....	21.38	9.86
23 09 43 00-0044	EA		3/8" x 3/8" x 1/4" Tee Brass Coupling.....	24.09	10.56
23 09 43 00-0045	EA		3/8" x 3/8" x 3/8" Tee Brass Coupling.....	23.70	10.56
23 10 Facility Fuel Systems (23)					
23 11 Facility Fuel Piping (23 10)					
23 11 23 Facility Natural-Gas Piping (23 11)					
23 11 23 00-0001			Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)		
23 11 23 00-0002			Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001) Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.		
23 11 23 00-0003	LF		3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	6.41	2.47
23 11 23 00-0004	LF		1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	7.02	2.68
23 11 23 00-0005	LF		3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	8.27	2.89
23 11 23 00-0006	LF		1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	10.17	3.06
23 11 23 00-0007	LF		1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	11.81	3.22
23 11 23 00-0008	LF		1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	17.23	3.35
23 11 23 00-0009	LF		2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	22.89	3.56
23 11 23 00-0010			Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
23 11 23 00-0011			Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0012	EA		3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	31.05	
23 11 23 00-0013	EA		3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	31.05	
23 11 23 00-0014	EA		1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	
23 11 23 00-0015	EA		1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	
23 11 23 00-0016	EA		3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.09	
23 11 23 00-0017	EA		1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	51.65	
23 11 23 00-0018	EA		1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	51.65	
23 11 23 00-0019	EA		1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	83.12	
23 11 23 00-0020	EA		1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	146.24	
23 11 23 00-0021	EA		2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	232.24	
23 11 23 00-0022			Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0023	EA		3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	30.25	
23 11 23 00-0024	EA		1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.25	
23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.09	
23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.09	
23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	49.70	
23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	49.70	
23 11 23 00-0030 Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.56	
23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	50.41	
23 11 23 00-0033 Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.68	
23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	43.76	
23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	53.72	
23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	74.47	
23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	133.56	
23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	253.90	
23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	416.72	
23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	55.36	
23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	84.20	
23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	128.46	
23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	214.59	
23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	230.38	
23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	263.39	
23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	36.22	
23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	37.64	
23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	40.79	
23 11 23 00-0052 EA 1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	52.94	
23 11 23 00-0053 EA 1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	53.61	
23 11 23 00-0054 Outdoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0055 EA 3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.32	
23 11 23 00-0056 EA 1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.61	
23 11 23 00-0057 EA 3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	47.08	
23 11 23 00-0058 EA 1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.71	
23 11 23 00-0059 EA 1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.71	
23 11 23 00-0060 Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0061 EA 3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	68.06	
23 11 23 00-0062 EA 1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	69.79	
23 11 23 00-0063 EA 3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.81	
23 11 23 00-0064 EA 1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	106.48	
23 11 23 00-0065 EA 1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	110.29	
23 11 23 00-0066 EA 1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	151.92	
23 11 23 00-0067 EA 2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	185.07	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0068 Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0069 EA 3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	71.06	
23 11 23 00-0070 EA 1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.73	
23 11 23 00-0071 EA 3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	78.98	
23 11 23 00-0072 EA 1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	130.09	
23 11 23 00-0073 EA 1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	134.11	
23 11 23 00-0074 EA 1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	178.46	
23 11 23 00-0075 EA 2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	221.03	
23 11 23 00-0076 Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0077 EA 1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	39.19	
23 11 23 00-0078 EA 3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.15	
23 11 23 00-0079 EA 1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	60.59	
23 11 23 00-0080 EA 1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	89.42	
23 11 23 00-0081 EA 1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	166.34	
23 11 23 00-0082 EA 2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	260.10	
23 11 23 00-0083 Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes mounting plate.		
23 11 23 00-0084 EA 1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	33.99	
23 11 23 00-0085 EA 3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	36.89	
23 11 23 00-0086 EA 1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.02	
23 11 23 00-0087 EA 1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	34.11	
23 11 23 00-0088 EA 3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	35.69	
23 11 23 00-0089 EA 1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.57	
23 11 23 00-0090 EA 1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	49.00	
23 11 23 00-0091 Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.		
23 11 23 00-0092 EA 1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	94.04	25.94
23 11 23 00-0093 EA 3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	105.02	27.23
23 11 23 00-0094 Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0095 EA 3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	69.87	22.70
23 11 23 00-0096 EA 1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	81.66	26.97
23 11 23 00-0097 EA 3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	99.76	32.42
23 11 23 00-0098 EA 1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	126.37	43.31
23 11 23 00-0099 Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
Note: Includes mounting hardware.		
23 11 23 00-0100 EA 1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	85.31	26.97
23 11 23 00-0101 EA 3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	97.85	32.42
23 11 23 00-0102 EA 1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	90.25	26.97
23 11 23 00-0103 EA 3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	101.05	32.42
23 11 23 00-0104 EA 2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	203.99	81.05
23 11 23 00-0105 Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0106 EA 1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	89.31	26.97
23 11 23 00-0107 EA 1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	89.31	26.97
23 11 23 00-0108 EA 1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	118.86	26.97
23 11 23 00-0109 EA 3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	129.66	32.42
23 11 23 00-0110 EA 3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	129.66	32.42
23 11 23 00-0111 EA 1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	151.27	43.31
23 11 23 00-0112 EA 1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	216.83	48.63
23 11 23 00-0113 EA 1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	113.63	26.97
23 11 23 00-0114 EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	263.49	32.42



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0115	EA	1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	623.00	48.63
23 11 23 00-0116		Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft) ^(23 11 23)		
23 11 23 00-0117		3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0118	EA	12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....	56.02	19.45
23 11 23 00-0119	EA	18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....	61.43	20.74
23 11 23 00-0120	EA	24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....	66.62	20.74
23 11 23 00-0121	EA	30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....	69.90	22.04
23 11 23 00-0122	EA	36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....	74.05	22.04
23 11 23 00-0123	EA	48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....	83.39	23.34
23 11 23 00-0124	EA	60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....	91.88	23.34
23 11 23 00-0125	EA	72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....	100.26	24.64
23 11 23 00-0126		3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0127	EA	12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....	56.02	19.45
23 11 23 00-0128	EA	18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....	61.43	20.74
23 11 23 00-0129	EA	24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....	66.62	20.74
23 11 23 00-0130	EA	30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....	69.90	22.04
23 11 23 00-0131	EA	36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....	74.05	22.04
23 11 23 00-0132	EA	48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....	83.39	23.34
23 11 23 00-0133	EA	60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....	91.88	23.34
23 11 23 00-0134	EA	72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....	100.26	24.64
23 11 23 00-0135		3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0136	EA	12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....	56.02	19.45
23 11 23 00-0137	EA	18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....	61.43	20.74
23 11 23 00-0138	EA	24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....	66.62	20.74
23 11 23 00-0139	EA	30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....	69.90	22.04
23 11 23 00-0140	EA	36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....	74.05	22.04
23 11 23 00-0141	EA	48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....	83.39	23.34
23 11 23 00-0142	EA	60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....	91.88	23.34
23 11 23 00-0143	EA	72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....	100.26	24.64
23 11 23 00-0144		3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) ^(23 11 23 00-0116)		
23 11 23 00-0145	EA	12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....	56.02	19.45
23 11 23 00-0146	EA	18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....	61.43	20.74
23 11 23 00-0147	EA	24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....	79.62	20.74
23 11 23 00-0148	EA	30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....	69.90	22.04
23 11 23 00-0149	EA	36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....	74.05	22.04
23 11 23 00-0150	EA	48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....	83.39	23.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0151 EA 60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....	91.88	23.34
23 11 23 00-0152 EA 72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....	100.26	24.64
23 11 23 00-0153 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0154 EA 12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....	61.03	19.45
23 11 23 00-0155 EA 18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....	67.65	20.74
23 11 23 00-0156 EA 24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....	66.62	20.74
23 11 23 00-0157 EA 30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....	77.84	22.04
23 11 23 00-0158 EA 36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....	74.05	22.04
23 11 23 00-0159 EA 48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....	83.39	23.34
23 11 23 00-0160 EA 60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....	91.88	23.34
23 11 23 00-0161 EA 72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....	100.26	24.64
23 11 23 00-0162 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0163 EA 12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....	56.02	19.45
23 11 23 00-0164 EA 24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....	73.98	20.74
23 11 23 00-0165 EA 30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....	69.90	22.04
23 11 23 00-0166 EA 36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....	74.05	22.04
23 11 23 00-0167 EA 48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....	83.39	23.34
23 11 23 00-0168 EA 60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....	105.13	23.34
23 11 23 00-0169 EA 72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....	100.26	24.64
23 11 23 00-0170 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0171 EA 12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....	56.02	19.45
23 11 23 00-0172 EA 18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....	61.43	20.74
23 11 23 00-0173 EA 24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....	66.62	20.74
23 11 23 00-0174 EA 30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....	69.90	22.04
23 11 23 00-0175 EA 36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....	74.05	22.04
23 11 23 00-0176 EA 48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....	83.39	23.34
23 11 23 00-0177 EA 60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....	91.88	23.34
23 11 23 00-0178 EA 72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....	100.26	24.64
23 11 23 00-0179 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0180 EA 12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....	56.02	19.45
23 11 23 00-0181 EA 18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....	61.43	20.74
23 11 23 00-0182 EA 24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....	66.62	20.74
23 11 23 00-0183 EA 30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....	69.90	22.04
23 11 23 00-0184 EA 36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....	74.05	22.04
23 11 23 00-0185 EA 48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....	83.39	23.34
23 11 23 00-0186 EA 60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....	91.88	23.34
23 11 23 00-0187 EA 72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....	100.26	24.64



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0188					3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0189	EA			18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....	67.65	20.74
	23 11 23 00-0190	EA			24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....	66.62	20.74
	23 11 23 00-0191	EA			30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....	77.84	22.04
	23 11 23 00-0192	EA			36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....	82.84	22.04
	23 11 23 00-0193	EA			48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....	94.55	23.34
23 11 23 00-0194					1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0195	EA			12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....	56.02	19.45
	23 11 23 00-0196	EA			18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....	61.43	20.74
	23 11 23 00-0197	EA			24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....	61.41	20.74
	23 11 23 00-0198	EA			30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....	69.90	22.04
	23 11 23 00-0199	EA			36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....	67.83	22.04
	23 11 23 00-0200	EA			48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....	85.29	23.34
	23 11 23 00-0201	EA			60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....	91.88	23.34
	23 11 23 00-0202	EA			72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....	100.26	24.64
23 11 23 00-0203					1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0204	EA			12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....	56.02	19.45
	23 11 23 00-0205	EA			18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....	57.19	20.74
	23 11 23 00-0206	EA			24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....	58.54	20.74
	23 11 23 00-0207	EA			30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....	69.90	22.04
	23 11 23 00-0208	EA			36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....	74.05	22.04
	23 11 23 00-0209	EA			48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....	75.27	23.34
	23 11 23 00-0210	EA			60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....	91.88	23.34
	23 11 23 00-0211	EA			72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....	100.26	24.64
23 11 23 00-0212					1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0213	EA			12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....	56.02	19.45
	23 11 23 00-0214	EA			18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....	61.43	20.74
	23 11 23 00-0215	EA			24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....	66.62	20.74
	23 11 23 00-0216	EA			30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....	69.90	22.04
	23 11 23 00-0217	EA			36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....	63.51	22.04
	23 11 23 00-0218	EA			48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....	83.39	23.34
	23 11 23 00-0219	EA			60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....	91.88	23.34
	23 11 23 00-0220	EA			72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....	100.26	24.64
23 11 23 00-0221					3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0222	EA			12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12).....	73.87	19.45

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0223 EA 18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18).....	79.24	20.74
23 11 23 00-0224 EA 24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24).....	84.43	20.74
23 11 23 00-0225 EA 30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30).....	87.69	22.04
23 11 23 00-0226 EA 36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36).....	92.01	22.04
23 11 23 00-0227 EA 48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48).....	100.79	23.34
23 11 23 00-0228 EA 60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60).....	110.00	23.34
23 11 23 00-0229 EA 72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72).....	118.41	24.64
23 11 23 00-0230 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0231 EA 12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12).....	86.84	25.94
23 11 23 00-0232 EA 18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18).....	92.21	27.23
23 11 23 00-0233 EA 24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24).....	97.40	27.23
23 11 23 00-0234 EA 30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30).....	100.65	28.53
23 11 23 00-0235 EA 36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36).....	104.97	28.53
23 11 23 00-0236 EA 48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48).....	113.76	29.83
23 11 23 00-0237 EA 60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60).....	122.97	29.83
23 11 23 00-0238 EA 72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72).....	131.38	31.12
23 11 23 00-0239 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0240 EA 12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	86.84	25.94
23 11 23 00-0241 EA 18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	92.21	27.23
23 11 23 00-0242 EA 24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	97.40	27.23
23 11 23 00-0243 EA 30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	100.65	28.53
23 11 23 00-0244 EA 36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	104.97	28.53
23 11 23 00-0245 EA 48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	113.76	29.83
23 11 23 00-0246 EA 60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	122.97	29.83
23 11 23 00-0247 EA 72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72).....	131.38	31.12
23 11 23 00-0248 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0249 EA 12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	101.34	25.94
23 11 23 00-0250 EA 18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	106.72	27.23
23 11 23 00-0251 EA 24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	111.91	27.23
23 11 23 00-0252 EA 30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	115.16	28.53
23 11 23 00-0253 EA 36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	119.50	28.53
23 11 23 00-0254 EA 48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	128.28	29.83
23 11 23 00-0255 EA 60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	137.49	29.83
23 11 23 00-0256 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0257 EA 12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....	101.34	25.94
23 11 23 00-0258 EA 18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....	106.72	27.23
23 11 23 00-0259 EA 24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....	111.91	27.23



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0260	EA	36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....	119.50	28.53
23 11 23 00-0261	EA	48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....	128.28	29.83
23 11 23 00-0262	EA	60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....	137.49	29.83
23 11 23 00-0263		1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0264	EA	12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....	101.34	25.94
23 11 23 00-0265	EA	18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....	106.72	27.23
23 11 23 00-0266	EA	24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....	111.91	27.23
23 11 23 00-0267	EA	30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....	115.16	28.53
23 11 23 00-0268	EA	36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....	119.50	28.53
23 11 23 00-0269	EA	48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....	128.28	29.83
23 11 23 00-0270	EA	60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....	137.49	29.83
23 11 23 00-0271	EA	72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....	145.89	31.12
23 11 23 00-0272		1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0273	EA	12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....	83.01	25.94
23 11 23 00-0274	EA	18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....	88.41	27.23
23 11 23 00-0275	EA	24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....	93.62	27.23
23 11 23 00-0276	EA	30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....	96.83	28.53
23 11 23 00-0277	EA	36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....	101.17	28.53
23 11 23 00-0278	EA	48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....	109.93	29.83
23 11 23 00-0279	EA	72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....	127.52	31.12
23 11 23 00-0280		1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0281	EA	18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....	98.73	27.23
23 11 23 00-0282	EA	24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....	105.08	27.23
23 11 23 00-0283		Quarter-Turn, Gas Ball Valve <small>(23 11 23)</small>		
23 11 23 00-0284	EA	3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....	51.41	13.80
23 11 23 00-0285	EA	1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....	51.70	14.09
23 11 23 00-0286	EA	3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....	74.24	15.50
23 11 23 00-0287	EA	3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....	50.97	13.80
23 11 23 00-0288	EA	1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....	53.78	14.09
23 11 23 00-0289	EA	1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....	59.92	14.09
23 11 23 00-0290	EA	5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....	65.18	14.79
23 11 23 00-0291	EA	5/8" (7/8"-14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....	68.31	14.79
23 11 23 00-0292	EA	5/8" (15/16"-16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....	68.31	14.79
23 11 23 00-0293	EA	3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....	53.31	13.80
23 11 23 00-0294	EA	1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....	56.12	14.09
23 11 23 00-0295	EA	5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....	69.96	14.79
23 11 23 00-0296	EA	1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....	56.43	14.09
23 11 23 00-0297	EA	3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....	76.00	15.50
23 11 23 00-0298	EA	3/8" (9/16"-24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....	53.19	13.80
23 11 23 00-0299	EA	3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....	50.66	13.80
23 11 23 00-0300	EA	1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....	51.68	14.09
23 11 23 00-0301	EA	3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....	70.87	15.50
23 11 23 00-0302	EA	1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....	95.91	17.61
23 11 23 00-0303	EA	1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....	137.02	18.31
23 11 23 00-0304	EA	1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....	162.71	21.13
23 11 23 00-0305	EA	2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....	200.66	25.35

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0306	EA		1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713)	53.04	14.09
23 11 23 00-0307	EA		3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714)	70.46	15.50
23 11 23 00-0308			Gas Stops (23 11 23)		
23 11 23 00-0309			Brass/Bronze Gas Stops (23 11 23 00-0308)		
			Note: Flat or square head		
23 11 23 00-0310	EA		3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	58.27	14.09
23 11 23 00-0311	EA		1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	58.95	14.09
23 11 23 00-0312	EA		3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	77.82	15.50
23 11 23 00-0313	EA		1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	106.08	17.61
23 11 23 00-0314	EA		1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	139.80	18.74
23 11 23 00-0315	EA		1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	173.36	21.69
23 11 23 00-0316	EA		2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596)	234.23	25.63
23 11 23 00-0317			Iron Body Gas Stops (23 11 23 00-0308)		
23 11 23 00-0318	EA		1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	75.05	14.09
23 11 23 00-0319	EA		3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	93.66	15.50
23 11 23 00-0320	EA		1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	115.63	17.61
23 11 23 00-0321	EA		1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	149.08	18.74
23 11 23 00-0322	EA		1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	185.01	21.69
23 11 23 00-0323	EA		2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	236.88	25.63
23 11 23 00-0324	EA		2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	438.49	34.62
23 11 23 00-0325	EA		3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B)	579.43	40.20
23 11 23 00-0326			Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)		
23 11 23 00-0327	EA		1/4" Solenoid Valve, Bronze, 150 PSI, Gas	171.14	14.09
23 11 23 00-0328	EA		1/2" Solenoid Valve, Bronze, 150 PSI, Gas	198.87	14.09
23 11 23 00-0329	EA		3/4" Solenoid Valve, Bronze, 150 PSI, Gas	254.18	15.50
23 11 23 00-0330	EA		1" Solenoid Valve, Bronze, 150 PSI, Gas	376.34	17.61
23 11 23 00-0331	EA		1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	666.27	21.69
23 11 23 00-0332	EA		2" Solenoid Valve, Bronze, 150 PSI, Gas	1,118.27	25.63
23 11 23 00-0333	EA		2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas	1,389.37	34.62
23 11 23 00-0334	EA		3" Solenoid Valve, Bronze, 150 PSI, Gas	2,076.49	40.20
23 11 26 Facility Liquefied-Petroleum Gas Piping (23 11)					
23 11 26 00-0001			Fiberglass Reinforced Plastic Pipe And Fittings (23 11 26)		
23 11 26 00-0002			Fiberglass Reinforced Plastic Pipe (23 11 26 00-0001)		
			Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (add modifier for use as inner pipe).		
23 11 26 00-0003	LF		2" Fiberglass Reinforced Plastic Pipe	21.10	9.34
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-10.46	
23 11 26 00-0004	LF		3" Fiberglass Reinforced Plastic Pipe	25.30	11.15
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-12.55	
23 11 26 00-0005	LF		4" Fiberglass Reinforced Plastic Pipe	34.48	16.47
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-18.48	
23 11 26 00-0006	LF		5" Fiberglass Reinforced Plastic Pipe	40.02	18.93
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-20.81	
23 11 26 00-0007	LF		6" Fiberglass Reinforced Plastic Pipe	46.46	21.14
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-23.82	
23 11 26 00-0008	LF		8" Fiberglass Reinforced Plastic Pipe	58.22	23.17
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-26.03	
23 11 26 00-0009	LF		10" Fiberglass Reinforced Plastic Pipe	75.71	27.55
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-31.04	
23 11 26 00-0010	LF		12" Fiberglass Reinforced Plastic Pipe	144.96	34.70
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-39.05	
23 11 26 00-0011			Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)		
23 11 26 00-0012			Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0013	EA		2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	175.04	92.98
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-104.58	
23 11 26 00-0014	EA		3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	207.68	111.65
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-125.50	
23 11 26 00-0015	EA		4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	246.28	129.67
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-145.79	
23 11 26 00-0016	EA		5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	277.06	137.07
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-151.20	
23 11 26 00-0017	EA		6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	329.58	153.78
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-172.92	
23 11 26 00-0018	EA		8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	457.62	192.17
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-216.15	
23 11 26 00-0019	EA		10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	579.99	231.48
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-260.31	
23 11 26 00-0020	EA		12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	1,093.03	287.04
			For Use As Inner Pipe In Double Wall Pipe System, Deduct	-322.79	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)						
			EA	2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	175.31	92.98
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-104.58	
			EA	3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	207.76	111.65
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-125.50	
			EA	4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	246.59	129.80
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-145.89	
			EA	5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	302.42	154.19
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-170.20	
			EA	6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	329.48	153.78
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-172.92	
			EA	8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	457.62	192.17
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-216.15	
			EA	10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	837.69	231.48
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-260.31	
			EA	12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	1,093.03	287.04
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-322.79	
23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)						
			EA	2" Fiberglass Reinforced Plastic Flanged Tee.....	311.14	139.53
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-156.86	
			EA	3" Fiberglass Reinforced Plastic Flanged Tee.....	381.67	168.06
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-188.93	
			EA	4" Fiberglass Reinforced Plastic Flanged Tee.....	436.80	194.64
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-218.85	
			EA	5" Fiberglass Reinforced Plastic Flanged Tee.....	540.24	231.21
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-255.40	
			EA	6" Fiberglass Reinforced Plastic Flanged Tee.....	601.45	231.48
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-260.31	
			EA	8" Fiberglass Reinforced Plastic Flanged Tee.....	753.89	287.04
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-322.79	
			EA	10" Fiberglass Reinforced Plastic Flanged Tee.....	1,134.08	347.22
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-390.47	
			EA	12" Fiberglass Reinforced Plastic Flanged Tee.....	1,488.79	422.15
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-474.68	
23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)						
			EA	2" Fiberglass Reinforced Plastic Flanged Wye.....	380.17	139.53
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-156.86	
			EA	3" Fiberglass Reinforced Plastic Flanged Wye.....	480.15	167.80
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-188.69	
			EA	4" Fiberglass Reinforced Plastic Flanged Wye.....	562.28	194.64
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-218.84	
			EA	5" Fiberglass Reinforced Plastic Flanged Wye.....	647.09	231.21
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-255.40	
			EA	6" Fiberglass Reinforced Plastic Flanged Wye.....	689.68	231.48
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-260.31	
			EA	8" Fiberglass Reinforced Plastic Flanged Wye.....	893.43	287.04
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-322.79	
			EA	10" Fiberglass Reinforced Plastic Flanged Wye.....	1,310.08	347.22
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-390.47	
			EA	12" Fiberglass Reinforced Plastic Flanged Wye.....	1,680.65	422.15
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-474.68	
23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)						
			EA	2" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	225.86	92.98
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-104.58	
			EA	3" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	286.47	111.65
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-125.50	
			EA	4" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	319.29	129.80
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-145.89	
			EA	5" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	371.12	154.19
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-170.20	
			EA	6" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	394.13	153.78
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-172.92	
			EA	8" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	516.20	192.17
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-216.15	
			EA	10" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	650.59	231.48
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-260.31	
			EA	12" Fiberglass Reinforced Plastic Flanged Concentric Reducer.....	870.08	287.04
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-322.79	
23 11 26 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)						
			EA	2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter.....	195.01	92.98
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-104.58	
			EA	3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter.....	227.56	111.65
				<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-125.50	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....260.43 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-145.89		129.80
23 11 26 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....313.46 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-170.20		154.19
23 11 26 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....337.72 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-172.92		153.78
23 11 26 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....360.75 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-216.15		192.17
23 11 26 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....451.34 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-260.31		231.48
23 11 26 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....657.08 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-322.79		287.04
23 11 26 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)		
23 11 26 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple .....32.07 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-12.55		11.15
23 11 26 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple .....64.06 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-25.04		22.30
23 11 26 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple .....92.71 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-19.25		17.11
23 11 26 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple .....107.31 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-24.23		21.56
23 11 26 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple .....96.92 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-17.30		15.33
23 11 26 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple .....119.80 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-25.94		23.06
23 11 26 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple .....146.58 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-28.53		25.82
23 11 26 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple .....173.35 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-31.16		27.67
23 11 26 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple .....103.64 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-36.31		32.28
23 11 26 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple .....142.74 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-51.83		46.12
23 11 26 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple .....159.49 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-36.91		32.86
23 11 26 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple .....239.32 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-55.28		49.11
23 11 26 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple .....183.19 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-38.06		33.89
23 11 26 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple .....244.14 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-57.10		50.72
23 11 26 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings (23 11 26 00-0011)		
23 11 26 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling .....153.53 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-104.58		92.98
23 11 26 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling .....184.49 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-125.50		111.65
23 11 26 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling .....213.84 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-145.89		129.80
23 11 26 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling .....253.64 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-170.20		154.19
23 11 26 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling .....264.65 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-172.92		153.78
23 11 26 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling .....338.20 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-216.15		192.17
23 11 26 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling .....423.21 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-260.31		231.48
23 11 26 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling .....520.15 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-322.79		287.04
23 11 26 00-0090 Fiberglass Reinforced Plastic Flanges (23 11 26 00-0011)		
23 11 26 00-0091 EA 2" Fiberglass Reinforced Plastic Flange .....155.29 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-104.58		92.98
23 11 26 00-0092 EA 3" Fiberglass Reinforced Plastic Flange .....186.82 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-125.50		111.65
23 11 26 00-0093 EA 4" Fiberglass Reinforced Plastic Flange .....198.97 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-129.46		115.16
23 11 26 00-0094 EA 5" Fiberglass Reinforced Plastic Flange .....237.08 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-151.31		137.07
23 11 26 00-0095 EA 6" Fiberglass Reinforced Plastic Flange .....274.88 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-172.92		153.78
23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange .....336.11 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-206.91		183.98
23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange .....439.12 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-260.31		231.48
23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange .....583.78 <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i> .....-322.79		287.04



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0099				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings <small>(23 11 26)</small>		
23 11 26 00-0100				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing <small>(23 11 26 00-0099)</small>		
23 11 26 00-0101	LF			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	104.16	40.07
23 11 26 00-0102	LF			3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	123.95	47.47
23 11 26 00-0103	LF			4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	165.72	70.02
23 11 26 00-0104	LF			6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	226.82	90.78
23 11 26 00-0105	LF			8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	293.77	99.14
23 11 26 00-0106	LF			10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	388.01	117.59
23 11 26 00-0107	LF			12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	494.38	148.36
23 11 26 00-0108				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings <small>(23 11 26 00-0099)</small>		
23 11 26 00-0109				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows <small>(23 11 26 00-0108)</small>		
23 11 26 00-0110	EA			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,679.62	495.87
23 11 26 00-0111	EA			3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,953.41	595.21
23 11 26 00-0112	EA			4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	2,401.71	691.69
23 11 26 00-0113	EA			6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	3,833.09	819.98
23 11 26 00-0114	EA			8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	5,991.99	1,025.17
23 11 26 00-0115	EA			10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	7,973.67	1,233.37
23 11 26 00-0116	EA			12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	10,562.10	1,527.33
23 11 26 00-0117				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows <small>(23 11 26 00-0108)</small>		
23 11 26 00-0118	EA			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,681.65	495.87
23 11 26 00-0119	EA			3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,949.83	595.21
23 11 26 00-0120	EA			4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	2,398.90	691.69
23 11 26 00-0121	EA			6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	3,816.59	819.98
23 11 26 00-0122	EA			8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	5,968.10	1,025.17
23 11 26 00-0123	EA			10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	7,941.68	1,233.95
23 11 26 00-0124	EA			12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	10,522.95	1,530.79
23 11 26 00-0125				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees <small>(23 11 26 00-0108)</small>		
23 11 26 00-0126	EA			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	2,381.51	743.82
23 11 26 00-0127	EA			3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	2,955.35	896.45
23 11 26 00-0128	EA			4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	3,356.71	1,038.05
23 11 26 00-0129	EA			6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	5,009.19	1,234.52
23 11 26 00-0130	EA			8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	6,312.02	1,530.79
23 11 26 00-0131	EA			10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	10,390.11	1,849.65
23 11 26 00-0132	EA			12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee	13,989.61	2,242.64
23 11 26 00-0133				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes <small>(23 11 26 00-0108)</small>		
23 11 26 00-0134	EA			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	3,238.66	743.82
23 11 26 00-0135	EA			3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	4,180.49	895.41
23 11 26 00-0136	EA			4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	4,915.09	1,038.05
23 11 26 00-0137	EA			6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	6,104.78	1,234.52
23 11 26 00-0138	EA			8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	8,044.65	1,530.79
23 11 26 00-0139	EA			10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	12,575.51	1,849.65
23 11 26 00-0140	EA			12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye	16,371.83	2,242.64
23 11 26 00-0141				Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers <small>(23 11 26 00-0108)</small>		
23 11 26 00-0142	EA			2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer	1,816.40	495.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,371.70	595.21
23 11 26 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,586.28	691.69
23 11 26 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	3,260.40	819.98
23 11 26 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	4,368.10	1,025.17
23 11 26 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	5,617.73	1,233.37
23 11 26 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	7,749.48	1,527.33
23 11 26 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)		
23 11 26 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,433.33	495.87
23 11 26 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,640.14	595.21
23 11 26 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,855.41	691.69
23 11 26 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,559.87	819.98
23 11 26 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,437.94	1,025.17
23 11 26 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	3,143.65	1,233.37
23 11 26 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	5,104.69	1,527.33
23 11 26 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)		
23 11 26 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	279.72	59.52
23 11 26 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	558.97	118.78
23 11 26 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	969.40	91.29
23 11 26 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,103.54	114.94
23 11 26 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,040.08	81.97
23 11 26 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,242.61	123.01
23 11 26 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,858.24	147.79
23 11 26 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	943.95	172.23
23 11 26 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,282.93	245.89
23 11 26 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,631.74	175.00
23 11 26 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,449.37	262.14
23 11 26 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,915.05	180.53
23 11 26 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,492.12	270.79
23 11 26 00-0171 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 26 00-0108)		
23 11 26 00-0172 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,247.89	613.98
23 11 26 00-0173 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,779.62	819.98
23 11 26 00-0174 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,219.27	981.49
23 11 26 00-0175 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,991.98	1,233.37
23 11 26 00-0176 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	4,194.65	1,527.33
23 12 Facility Fuel Pumps (23 10)		
23 12 13 Facility Fuel-Oil Pumps (23 12)		
23 12 13 00-0001 Cast Iron Internal Gear Rotary Pump (23 12 13)		
Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil.		
23 12 13 00-0002 10 GPM 1" Discharge (23 12 13 00-0001)		
23 12 13 00-0003 EA 10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge.....	1,464.77	376.23
23 12 13 00-0004 EA 10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge.....	1,556.73	455.36
23 12 13 00-0005 EA 10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge.....	1,718.83	540.99
23 12 13 00-0006 25 GPM 1-1/4" Discharge (23 12 13 00-0001)		
23 12 13 00-0007 EA 25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge.....	1,632.06	376.23
23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge.....	1,726.92	455.36
23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge.....	1,821.55	540.99
23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)		
23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel.....	1,123.50	210.81
23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel.....	1,313.41	236.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel	1,440.18	264.66
23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel	1,577.35	298.39
23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel	2,162.69	332.12
23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel	2,623.05	371.68
23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel	2,909.77	416.44
23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel	3,520.96	465.74
23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel	4,133.23	522.18
23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel	4,628.43	585.75
23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel	5,189.09	656.58

23 12 23 Facility Natural-Gas Pumps (23 12)

23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)

23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size	1,101.03	194.60
23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size	1,298.16	217.30
23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size	1,445.92	227.04
23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size	1,628.71	236.76
23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size	1,828.42	243.25

23 13 Facility Fuel-Storage Tanks (23 10)

23 13 13 Facility Underground Fuel-Oil, Storage Tanks (23 13)

23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks (23 13 13)

23 13 13 13-0001 Coated Underground Double Wall Storage Tanks (23 13 13 13)

Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.

23 13 13 13-0002 EA 250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	13,034.02	803.78
23 13 13 13-0003 EA 500 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	14,059.82	803.78
23 13 13 13-0004 EA 1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	20,263.35	1,004.66
23 13 13 13-0005 EA 2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	27,951.83	1,962.35
23 13 13 13-0006 EA 3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	44,300.48	2,522.87
23 13 13 13-0007 EA 4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	49,381.96	2,897.60
23 13 13 13-0008 EA 5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	53,548.45	3,831.22
23 13 13 13-0009 EA 6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	55,425.58	4,113.48
23 13 13 13-0010 EA 8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	67,590.31	4,859.57
23 13 13 13-0011 EA 10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	78,271.18	5,605.15
23 13 13 13-0012 EA 12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	99,781.44	6,163.93
23 13 13 13-0013 EA 14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	118,349.28	7,483.99
23 13 13 13-0014 EA 15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	122,319.39	7,942.46
23 13 13 13-0015 EA 20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	151,063.42	12,598.40
23 13 13 13-0016 EA 25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	185,943.17	16,337.03
23 13 13 13-0017 EA 30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	218,893.17	18,692.54
23 13 13 13-0018 EA 40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	280,175.69	20,094.49
23 13 13 13-0019 EA 48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	377,299.91	20,609.78

23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)

23 13 13 23-0001 Underground Fiberglass Storage Tanks (23 13 13 23)

23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0003 EA 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	3,383.39	803.78
23 13 13 23-0004 EA 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	4,247.24	1,004.66
23 13 13 23-0005 EA 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	5,520.05	1,243.06
23 13 13 23-0006 EA 2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	6,316.07	1,514.10
23 13 13 23-0007 EA 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	7,103.62	1,775.79
23 13 13 23-0008 EA 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	8,719.44	2,336.57
23 13 13 23-0009 EA 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	10,740.52	3,551.58
23 13 13 23-0010 EA 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	12,355.33	4,486.22
23 13 13 23-0011 EA 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	14,660.43	5,046.98
23 13 13 23-0012 EA 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	16,658.08	5,981.61
23 13 13 23-0013 EA 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	21,154.87	7,103.17
23 13 13 23-0014 EA 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	26,129.39	8,878.96
23 13 13 23-0015 EA 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	33,229.37	11,869.77
23 13 13 23-0016 EA 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	48,350.64	14,767.11
23 13 13 23-0017 EA 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	58,969.21	17,757.92
23 13 13 23-0018 EA 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	84,561.15	25,702.25
23 13 13 23-0019 EA 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	118,592.20	32,711.96

23 13 13 23-0020 Double Wall Fiberglass Underground Storage Tanks (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0021 EA 550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	6,222.03	803.78
23 13 13 23-0022 EA 1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	8,176.02	1,004.66

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 13 23-0023 EA 2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	9,807.14	1,215.02
23 13 13 23-0024 EA 3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	12,841.66	1,775.92
23 13 13 23-0025 EA 4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	14,577.02	2,336.57
23 13 13 23-0026 EA 5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	17,179.87	3,551.58
23 13 13 23-0027 EA 6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	19,368.49	4,486.22
23 13 13 23-0028 EA 8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	23,586.27	5,046.98
23 13 13 23-0029 EA 10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	25,583.92	5,981.61
23 13 13 23-0030 EA 12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	30,877.66	7,103.17
23 13 13 23-0031 EA 15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	42,108.24	8,878.96
23 13 13 23-0032 EA 20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	52,515.56	11,869.77
23 13 13 23-0033 EA 30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	80,805.64	17,757.92
23 13 13 23-0034 Underground Storage Tank Pump Enclosures (23 13 13 23)		
23 13 13 23-0035 EA Secondary Containment Collar	1,873.19	
23 13 13 23-0036 EA Turbine Enclosure With Lid 4' Long x 42" Diameter	1,873.19	
23 13 13 23-0037 EA Fitting Kit For Turbine Enclosure	374.64	
23 13 13 23-0038 EA Grommet Kits For Plumbing And Electrical	749.28	
23 13 13 23-0039 EA Turbine Electrical Coupling Kit	936.59	
23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)		
23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)		
23 13 23 13-0001 Rectangle Double Wall Steel Fuel Day Tank (23 13 23 13)		
Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.		
23 13 23 13-0002 EA 10 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,229.75	169.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0003 EA 15 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,319.27	177.52
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0004 EA 25 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,431.25	190.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0005 EA 50 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,639.23	202.88
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0006 EA 60 Gallon Double Wall Steel Day Tank (Tramont TRX)	1,823.04	211.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0007 EA 75 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,150.61	253.60
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0008 EA 100 Gallon Double Wall Steel Day Tank (Tramont TRX)	2,879.33	295.87
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0009 EA 150 Gallon Double Wall Steel Day Tank (Tramont TRX)	3,632.03	338.13
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0010 EA 200 Gallon Double Wall Steel Day Tank (Tramont TRX)	4,641.87	380.40
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0011 EA 275 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,173.44	422.67
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0012 EA 300 Gallon Double Wall Steel Day Tank (Tramont TRX)	5,928.03	507.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0013 EA 350 Gallon Double Wall Steel Day Tank (Tramont TRX)	6,648.33	591.73
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0014 EA 400 Gallon Double Wall Steel Day Tank (Tramont TRX)	7,389.20	676.27
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0015 EA 450 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,189.90	718.54
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0016 EA 500 Gallon Double Wall Steel Day Tank (Tramont TRX)	8,995.76	760.81
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0017 EA 550 Gallon Double Wall Steel Day Tank (Tramont TRX)	9,909.60	803.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0018 EA 600 Gallon Double Wall Steel Day Tank (Tramont TRX)	10,710.31	845.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0019 EA 700 Gallon Double Wall Steel Day Tank (Tramont TRX)	11,952.06	1,014.41
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0020 EA 800 Gallon Double Wall Steel Day Tank (Tramont TRX)	12,893.49	1,098.94
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0021 EA 900 Gallon Double Wall Steel Day Tank (Tramont TRX)	14,171.23	1,268.01
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0022 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont TRX)	15,454.13	1,437.08
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0023 EA 10 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,480.03	169.07
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0024 EA 15 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,571.26	177.52
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0025 EA 25 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,683.24	190.20
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0026 EA 50 Gallon Double Wall Steel Day Tank (Tramont UTRX)	1,889.51	202.88
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0027 EA 60 Gallon Double Wall Steel Day Tank (Tramont UTRX)	2,073.32	211.34
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0028 EA 75 Gallon Double Wall Steel Day Tank (Tramont UTRX)	2,402.61	253.60
Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0029 EA 100 Gallon Double Wall Steel Day Tank (Tramont UTRX)	3,155.32	295.87
Note: Includes rust-inhibitor coated interior and gray painted exterior.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0030 EA 150 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,908.02	338.13
23 13 23 13-0031 EA 200 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,917.86	380.40
23 13 23 13-0032 EA 275 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,449.43	422.67
23 13 23 13-0033 EA 300 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,204.02	507.20
23 13 23 13-0034 EA 350 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,924.32	591.73
23 13 23 13-0035 EA 400 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,665.19	676.27
23 13 23 13-0036 EA 450 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,465.90	718.54
23 13 23 13-0037 EA 500 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,271.75	760.81
23 13 23 13-0038 EA 550 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,187.31	803.07
23 13 23 13-0039 EA 600 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,988.02	845.34
23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,228.05	1,014.41
23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	13,169.48	1,098.94
23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,447.22	1,268.01
23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	15,730.13	1,437.08
23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,428.00	169.07
23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,508.94	177.52
23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,583.21	190.20
23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,858.05	202.88
23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,963.00	211.34
23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,280.29	253.60
23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,945.58	295.87
23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,969.13	338.13
23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,588.12	380.40
23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,281.94	422.67
23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,238.81	507.20
23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,825.40	591.73
23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,614.27	676.27
23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,378.98	718.54
23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,383.68	760.81
23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,808.97	803.07
23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,191.41	845.34
23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,959.42	1,014.41
23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	15,649.97	1,098.94
23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	17,520.84	1,268.01
23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	19,420.86	1,437.08
23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,559.39	169.07
23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,640.33	177.52
23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,714.60	190.20
23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,989.44	202.88
23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,094.39	211.34
23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,411.68	253.60
23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,076.97	295.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,100.52	338.13
23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,794.94	380.40
23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,019.06	422.67
23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,975.93	507.20
23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,564.24	591.73
23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,351.39	676.27
23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,117.81	718.54
23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,120.80	760.81
23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,546.09	803.07
23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,928.53	845.34
23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,696.54	1,014.41
23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	16,388.80	1,098.94
23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	18,257.96	1,268.01
23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	20,157.98	1,437.08
23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,191.94	169.07
23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,281.45	177.52
23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,357.44	190.20
23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,640.85	202.88
23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,793.80	211.34
23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,083.66	253.60
23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,774.66	295.87
23 13 23 13-0093 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,846.21	338.13
23 13 23 13-0094 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,487.49	380.40
23 13 23 13-0095 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,246.45	422.67
23 13 23 13-0096 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,251.32	507.20
23 13 23 13-0097 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,784.77	591.73
23 13 23 13-0098 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,676.49	676.27
23 13 23 13-0099 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,598.90	718.54
23 13 23 13-0100 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,526.47	760.81
23 13 23 13-0101 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,001.47	803.07
23 13 23 13-0102 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,358.19	845.34
23 13 23 13-0103 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,203.35	1,014.41
23 13 23 13-0104 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	17,974.46	1,098.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0105 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	19,925.90	1,268.01
23 13 23 13-0106 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	21,903.07	1,437.08
23 13 23 13-0107 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,323.33	169.07
23 13 23 13-0108 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,412.85	177.52
23 13 23 13-0109 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,488.83	190.20
23 13 23 13-0110 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,772.24	202.88
23 13 23 13-0111 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,925.19	211.34
23 13 23 13-0112 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,211.62	253.60
23 13 23 13-0113 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,906.05	295.87
23 13 23 13-0114 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,977.60	338.13
23 13 23 13-0115 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,618.88	380.40
23 13 23 13-0116 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,983.57	422.67
23 13 23 13-0117 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,988.44	507.20
23 13 23 13-0118 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,693.31	591.73
23 13 23 13-0119 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,413.61	676.27
23 13 23 13-0120 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,336.02	718.54
23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,263.59	760.81
23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,738.59	803.07
23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,097.03	845.34
23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,940.47	1,014.41
23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,711.58	1,098.94
23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,663.02	1,268.01
23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	22,640.19	1,437.08
23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,218.57	169.07
23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,318.65	177.52
23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,430.29	190.20
23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,630.18	202.88
23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,148.88	211.34
23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,219.32	253.60
23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,783.06	295.87
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,435.03	338.13
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,492.05	380.40
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,625.99	422.67
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	6,753.47	507.20
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,272.24	591.73
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	7,793.28	676.27
23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	8,549.34	718.54
23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,307.68	760.81
23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	9,968.72	803.07

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 10 Facility Fuel Systems

23 13 Facility Fuel-Storage Tanks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0144	EA		150% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	10,636.53	845.34
23 13 23 13-0145	EA		150% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,054.23	1,014.41
23 13 23 13-0146	EA		150% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	13,371.76	1,098.94
23 13 23 13-0147	EA		150% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	14,866.39	1,268.01
23 13 23 13-0148	EA		150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	16,311.25	1,437.08
23 13 23 13-0149	EA		200% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,284.71	177.52
23 13 23 13-0150	EA		200% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,396.60	190.20
23 13 23 13-0151	EA		200% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,513.27	202.88
23 13 23 13-0152	EA		200% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,716.06	211.34
23 13 23 13-0153	EA		200% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,319.13	253.60
23 13 23 13-0154	EA		200% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,389.58	295.87
23 13 23 13-0155	EA		200% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,980.72	338.13
23 13 23 13-0156	EA		200% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,665.00	380.40
23 13 23 13-0157	EA		200% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,776.82	422.67
23 13 23 13-0158	EA		200% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,969.86	464.94
23 13 23 13-0159	EA		200% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	7,152.14	549.47
23 13 23 13-0160	EA		200% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,691.91	634.00
23 13 23 13-0161	EA		200% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	8,234.06	718.54
23 13 23 13-0162	EA		200% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	9,028.23	760.81
23 13 23 13-0163	EA		200% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,824.77	803.07
23 13 23 13-0164	EA		200% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	10,518.63	845.34
23 13 23 13-0165	EA		200% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	11,290.07	929.88
23 13 23 13-0166	EA		200% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,770.86	1,098.94
23 13 23 13-0167	EA		200% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	14,294.66	1,268.01
23 13 23 13-0168	EA		200% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	15,856.68	1,437.08
23 13 23 13-0169	EA		200% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	17,366.15	1,606.14
23 13 23 13-0170	EA		150% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,397.33	169.07
23 13 23 13-0171	EA		150% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,520.04	177.52
23 13 23 13-0172	EA		150% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,645.25	190.20
23 13 23 13-0173	EA		150% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,890.40	202.88
23 13 23 13-0174	EA		150% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,506.40	211.34
23 13 23 13-0175	EA		150% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,576.84	253.60
23 13 23 13-0176	EA		150% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,222.04	295.87
23 13 23 13-0177	EA		150% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	3,980.36	338.13
23 13 23 13-0178	EA		150% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,222.31	380.40
23 13 23 13-0179	EA		150% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	6,612.57	422.67
23 13 23 13-0180	EA		150% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	7,941.43	507.20
23 13 23 13-0181	EA		150% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	8,530.35	591.73
23 13 23 13-0182	EA		150% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,123.80	676.27
23 13 23 13-0183	EA		150% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	10,022.42	718.54
23 13 23 13-0184	EA		150% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	10,923.31	760.81
23 13 23 13-0185	EA		150% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	11,690.69	803.07
23 13 23 13-0186	EA		150% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	12,476.17	845.34
23 13 23 13-0187	EA		150% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	14,131.46	1,014.41
23 13 23 13-0188	EA		150% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	15,688.85	1,098.94
23 13 23 13-0189	EA		150% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	17,421.07	1,268.01
23 13 23 13-0190	EA		150% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	19,103.52	1,437.08
23 13 23 13-0191	EA		200% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,473.40	177.52
23 13 23 13-0192	EA		200% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,609.18	190.20
23 13 23 13-0193	EA		200% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,740.18	202.88
23 13 23 13-0194	EA		200% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,990.74	211.34
23 13 23 13-0195	EA		200% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,696.52	253.60
23 13 23 13-0196	EA		200% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,766.97	295.87
23 13 23 13-0197	EA		200% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,444.08	338.13
23 13 23 13-0198	EA		200% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	4,240.63	380.40
23 13 23 13-0199	EA		200% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,547.65	422.67
23 13 23 13-0200	EA		200% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	7,011.25	464.94
23 13 23 13-0201	EA		200% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	8,406.10	549.47
23 13 23 13-0202	EA		200% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	9,019.91	634.00
23 13 23 13-0203	EA		200% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	9,638.50	718.54
23 13 23 13-0204	EA		200% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	10,583.14	760.81
23 13 23 13-0205	EA		200% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	11,530.15	803.07
23 13 23 13-0206	EA		200% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	12,336.26	845.34
23 13 23 13-0207	EA		200% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	13,231.91	929.88
23 13 23 13-0208	EA		200% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	14,963.50	1,098.94
23 13 23 13-0209	EA		200% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	16,740.48	1,268.01
23 13 23 13-0210	EA		200% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	18,553.29	1,437.08
23 13 23 13-0211	EA		200% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	20,313.55	1,606.14

23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 16-0001 Single Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.

23 13 23 16-0002	EA		300 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	4,315.03	918.88
23 13 23 16-0003	EA		550 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,190.95	1,112.32
23 13 23 16-0004	EA		1,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	6,876.59	1,426.38
23 13 23 16-0005	EA		1,500 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	8,866.12	1,782.97
23 13 23 16-0006	EA		2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	10,651.13	2,296.57
23 13 23 16-0007	EA		3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	15,663.83	2,364.11
23 13 23 16-0008	EA		5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	22,586.96	2,922.89



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 16-0009	EA			8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	30,777.34	3,349.08
23 13 23 16-0010	EA			10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	36,560.40	3,653.52
23 13 23 16-0011	EA			12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	42,359.72	4,018.90
23 13 23 16-0012	EA			15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	46,898.44	4,465.40
23 13 23 16-0013	EA			20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	58,639.49	5,741.23
23 13 23 16-0014	EA			30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	79,690.22	6,698.16
23 13 23 16-0015 Double Wall Aboveground Storage Tanks (23 13 23 16)						
Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, excavation and backfill.						
23 13 23 16-0016	EA			300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	6,703.07	1,146.56
23 13 23 16-0017	EA			550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	8,059.09	1,387.48
23 13 23 16-0018	EA			1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	10,707.95	1,782.97
23 13 23 16-0019	EA			1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	13,837.70	2,228.72
23 13 23 16-0020	EA			2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	16,475.67	2,870.68
23 13 23 16-0021	EA			3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	24,829.85	2,955.04
23 13 23 16-0022	EA			5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	36,073.67	3,640.31
23 13 23 16-0023	EA			8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	49,555.12	4,186.38
23 13 23 16-0024	EA			10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	59,058.97	4,566.96
23 13 23 16-0025	EA			12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	68,553.99	5,023.56
23 13 23 16-0026	EA			15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	75,889.90	5,581.85
23 13 23 16-0027	EA			20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	94,795.42	7,176.57
23 13 23 16-0028	EA			30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	129,479.76	8,372.64
23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)						
23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)						
23 13 23 19-0002	EA			Steel Dike For 550 Gallon Tank, Uncoated.....	3,908.86	
23 13 23 19-0003	EA			Steel Dike For 1,000 Gallon Tank, Uncoated.....	4,726.79	
23 13 23 19-0004	EA			Steel Dike For 2,000 Gallon Tank, Uncoated.....	10,217.07	
23 13 23 19-0005	EA			Steel Dike For 3,000 Gallon Tank, Uncoated.....	11,215.79	
23 13 23 19-0006	EA			Steel Dike For 5,000 Gallon Tank, Uncoated.....	15,886.87	
23 13 23 19-0007	EA			Steel Dike For 6,000 Gallon Tank, Uncoated.....	17,797.05	
23 13 23 19-0008	EA			Steel Dike For 8,000 Gallon Tank, Uncoated.....	23,468.09	
23 13 23 19-0009	EA			Steel Dike For 10,000 Gallon Tank, Uncoated.....	27,560.33	
23 13 23 19-0010	EA			Steel Dike For 12,000 Gallon Tank, Uncoated.....	31,290.83	
23 13 23 19-0011	EA			Steel Dike For 15,000 Gallon Tank, Uncoated.....	38,112.32	
23 13 23 19-0012	EA			Steel Dike For 20,000 Gallon Tank, Uncoated.....	48,756.78	
23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)						
23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)						
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overflow containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.						
23 13 23 26-0002	EA			500 Gallon Concrete Vaulted Storage Tank	22,046.75	1,738.28
				<i>For Low Profile Tanks, Add</i>	7,848.50	
23 13 23 26-0003	EA			1,000 Gallon Concrete Vaulted Storage Tank	27,663.99	1,962.35
				<i>For Low Profile Tanks, Add</i>	9,970.33	
23 13 23 26-0004	EA			2,000 Gallon Concrete Vaulted Storage Tank	48,563.56	2,336.57
				<i>For Low Profile Tanks, Add</i>	18,121.29	
23 13 23 26-0005	EA			4,000 Gallon Concrete Vaulted Storage Tank	77,601.48	5,139.33
23 13 23 26-0006	EA			5,000 Gallon Concrete Vaulted Storage Tank	88,513.82	5,613.00
23 13 23 26-0007	EA			6,000 Gallon Concrete Vaulted Storage Tank	99,527.44	6,061.62
23 13 23 26-0008	EA			8,000 Gallon Concrete Vaulted Storage Tank	110,513.62	6,577.66
23 13 23 26-0009	EA			10,000 Gallon Concrete Vaulted Storage Tank	121,491.46	7,001.60
23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)						
23 13 33 00-0001 EPA Requirements (23 13 33)						
23 13 33 00-0002	EA			Fill Pipe Spill Containment Manhole (5 Gallon).....	928.70	
23 13 33 00-0003	EA			Over-Fill Prevention Valve	1,350.02	
23 13 33 00-0004	EA			Tank Manway With Cover, Fiberglass	3,731.68	
23 13 33 00-0005	EA			Tank Manway With Cover, Steel.....	2,964.31	
23 13 33 00-0006	EA			Vent Fill Alarm (Whistle Vent).....	152.96	
23 13 33 00-0007	EA			Reservoir Sensor, Liquid Level	393.35	
23 13 33 00-0008	EA			Manhole Spill Containment.....	1,484.37	327.81
23 13 33 00-0009	EA			Fill Adapter, 4"	360.71	218.58

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0010 EA Fill Cap, 4"	240.32	81.95
23 13 33 00-0011 EA 2" Vent Cap	148.07	54.68
23 13 33 00-0012 EA 4" x 2" Extractor Fitting	431.04	81.95
23 13 33 00-0013 EA Float Vent Valve	461.12	163.90
23 13 33 00-0014 EA Vapor Hose Adapter	433.75	109.22
23 13 33 00-0015 EA Dust Cap	195.62	59.66
23 13 33 00-0016 EA 1" Double Poppet Foot Valve	485.23	93.62
23 13 33 00-0017 EA 10" Wood Gage Stick	37.71	
23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT	147.87	
23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet	195.00	
23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent	90.41	
23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent	119.43	
23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent	182.80	
23 13 33 00-0023 EA Pressure And Vacuum Control Vent	825.50	
23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set	1,652.70	
23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set	1,948.59	
23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set	2,127.36	
23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set	2,334.73	
23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set	3,295.20	
23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set	4,051.96	
23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set	4,488.48	
23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set	5,494.45	
23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set	6,490.27	
23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set	7,265.52	
23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set	8,381.94	
23 13 33 00-0035 Tank Bulkhead Fittings (23 13 33)		
23 13 33 00-0036 Tank Bulkhead Fittings (23 13 33 00-0035)		
23 13 33 00-0037 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	58.43	
23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	65.31	
23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	71.79	
23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	86.80	
23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	89.61	
23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	117.86	
23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	186.90	
23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread	327.45	
23 13 33 00-0046 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0047 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	68.04	
23 13 33 00-0048 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	74.88	
23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	81.75	
23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	102.26	
23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	109.13	
23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	135.55	
23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	210.49	
23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	360.96	
23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	70.22	
23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	81.17	
23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	91.71	
23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	118.70	
23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	155.42	
23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	242.55	
23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	380.87	
23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread	82.41	
23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread	97.37	
23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread	120.06	
23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread	146.46	
23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread	149.27	
23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread	214.00	
23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread	383.99	
23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread	686.64	
23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0073 EA 3/4" Polyethylene Bulkhead Fitting, Thread x Thread	72.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0074 EA 1" Polyethylene Bulkhead Fitting, Thread x Thread.....	93.43	
23 13 33 00-0075 EA 1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread.....	96.25	
23 13 33 00-0076 EA 1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread.....	99.06	
23 13 33 00-0077 EA 2" Polyethylene Bulkhead Fitting, Thread x Thread.....	138.47	
23 13 33 00-0078 EA 3" Polyethylene Bulkhead Fitting, Thread x Thread.....	175.22	
23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection <small>(23 13 33 00-0036)</small>		
23 13 33 00-0080 EA 1/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	313.69	
23 13 33 00-0081 EA 1/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	358.60	
23 13 33 00-0082 EA 3/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	441.00	
23 13 33 00-0083 EA 1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	508.60	
23 13 33 00-0084 EA 3/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	586.04	
23 13 33 00-0085 EA 1" TFE Teflon Bulkhead Fitting, Thread x Thread.....	738.34	
23 13 33 00-0086 EA 1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	959.21	
23 13 33 00-0087 EA 2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	1,059.82	
23 13 33 00-0088 Self-Aligning Bulkhead Fittings <small>(23 13 33 00-0035)</small>		
23 13 33 00-0089 EA 3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	321.05	
23 13 33 00-0090 EA 1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	421.40	
23 13 33 00-0091 EA 1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	469.29	
23 13 33 00-0092 EA 2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	479.03	
23 13 33 00-0093 EA 3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	646.52	

23 20 HVAC Piping and Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping and Pumps (23 20)

23 21 13 Hydronic Piping (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)

23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)

23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)

23 21 13 23-0003 LF 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	21.89	5.19
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	5.02	
<i>For Work In Restricted Working Space, Add</i>		
	5.36	
23 21 13 23-0004 LF 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	23.49	5.57
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	5.47	
<i>For Work In Restricted Working Space, Add</i>		
	5.60	
23 21 13 23-0005 LF 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	25.44	6.10
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	6.01	
<i>For Work In Restricted Working Space, Add</i>		
	5.91	
23 21 13 23-0006 LF 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	29.52	6.36
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	7.23	
<i>For Work In Restricted Working Space, Add</i>		
	6.38	
23 21 13 23-0007 LF 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	30.81	7.53
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	7.64	
<i>For Work In Restricted Working Space, Add</i>		
	6.47	
23 21 13 23-0008 LF 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	36.04	9.07
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	9.09	
<i>For Work In Restricted Working Space, Add</i>		
	7.28	
23 21 13 23-0009 LF 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	50.10	10.76
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		
	13.22	
<i>For Work In Restricted Working Space, Add</i>		
	9.04	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0010	LF	3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.04 16.79 11.07	14.40
23 21	13 23-0011	LF	4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.52 23.08 11.08	15.33
23 21	13 23-0012	LF	5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.45 37.40 13.20	19.59
23 21	13 23-0013	LF	6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.19 44.65 14.95	23.17
23 21	13 23-0014		Threaded Black Steel Pipe And Fittings <small>(23 21 13 23-0001)</small> Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21	13 23-0015		Threaded And Coupled, Black Steel Piping <small>(23 21 13 23-0014)</small> Note: ASTM A-53. Includes coupling.		
23 21	13 23-0016	LF	3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.82 1.23 1.97	3.24
23 21	13 23-0017	LF	1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	9.98 1.74 2.36	5.19
23 21	13 23-0018	LF	3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.12 2.07 2.51	5.57
23 21	13 23-0019	LF	1" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.73 2.56 2.72	6.10
23 21	13 23-0020	LF	1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.52 3.17 2.88	6.36
23 21	13 23-0021	LF	1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.15 3.77 3.38	7.53
23 21	13 23-0022	LF	2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.34 4.83 4.10	9.07
23 21	13 23-0023	LF	2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.35 7.08 4.86	10.76
23 21	13 23-0024	LF	3" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.52 9.32 6.48	14.40
23 21	13 23-0025	LF	4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.83 13.00 6.92	15.33
23 21	13 23-0026	LF	5" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.93 17.15 8.80	19.59
23 21	13 23-0027	LF	6" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.37 22.22 10.41	23.17
23 21	13 23-0028	LF	8" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.72 32.00 12.58	28.01
23 21	13 23-0029	LF	10" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.70 44.48 15.37	34.12
23 21	13 23-0030	LF	12" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.86 59.65 20.18	44.85
23 21	13 23-0031		Black Malleable Iron 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21	13 23-0032	EA	3/8", 150 LB, Black Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.42 12.79 0.07 8.64	19.20
23 21	13 23-0033	EA	1/2", 150 LB, Black Malleable Iron 90 Degree Elbow <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.77 9.73 0.05 10.37	23.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	42.56	25.81
<i>For 300 LB Rating, Add</i>	11.56	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.06	
<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow	49.91	28.78
<i>For 300 LB Rating, Add</i>	18.65	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow	59.96	32.68
<i>For 300 LB Rating, Add</i>	29.41	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.18	
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	69.69	36.83
<i>For 300 LB Rating, Add</i>	38.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow	95.12	46.81
<i>For 300 LB Rating, Add</i>	64.28	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.40	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	159.50	69.25
<i>For 300 LB Rating, Add</i>	140.05	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.89	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow	218.09	91.03
<i>For 300 LB Rating, Add</i>	204.01	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow	309.74	89.68
<i>For 300 LB Rating, Add</i>	428.67	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.80	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow	652.44	93.60
<i>For 300 LB Rating, Add</i>	1,237.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	8.19	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow	738.27	97.87
<i>For 300 LB Rating, Add</i>	1,428.52	
<i>For Standard Weight Cast Iron Fittings, Add</i>	9.46	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	37.77	21.14
<i>For 300 LB Rating, Add</i>	16.49	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	9.51	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.91	24.38
<i>For 300 LB Rating, Add</i>	17.22	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	11.00	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	42.51	22.57
<i>For 300 LB Rating, Add</i>	23.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	10.13	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	49.01	27.36
<i>For 300 LB Rating, Add</i>	21.75	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
<i>For Work In Restricted Working Space, Add</i>	12.29	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	47.57	25.94
<i>For 300 LB Rating, Add</i>	23.14	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	53.10	23.99
<i>For 300 LB Rating, Add</i>	43.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	10.81	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.59	30.73
<i>For 300 LB Rating, Add</i>	35.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	58.89	29.18
<i>For 300 LB Rating, Add</i>	38.82	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	13.14	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	59.36	27.88
<i>For 300 LB Rating, Add</i>	44.77	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.28	
<i>For Work In Restricted Working Space, Add</i>	12.53	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	71.11	34.75
<i>For 300 LB Rating, Add</i>	48.87	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	15.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0055	EA	1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.26	32.81
			<i>For 300 LB Rating, Add</i>	48.70	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21	13 23-0056	EA	1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	68.75	31.25
			<i>For 300 LB Rating, Add</i>	55.16	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.35	
			<i>For Work In Restricted Working Space, Add</i>	14.08	
23 21	13 23-0057	EA	2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.26	41.75
			<i>For 300 LB Rating, Add</i>	70.05	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.44	
			<i>For Work In Restricted Working Space, Add</i>	18.79	
23 21	13 23-0058	EA	2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	90.89	39.68
			<i>For 300 LB Rating, Add</i>	78.88	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	17.85	
23 21	13 23-0059	EA	2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	88.03	37.74
			<i>For 300 LB Rating, Add</i>	78.71	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.50	
			<i>For Work In Restricted Working Space, Add</i>	17.00	
23 21	13 23-0060	EA	2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	87.67	36.31
			<i>For 300 LB Rating, Add</i>	83.11	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	16.32	
23 21	13 23-0061	EA	2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	162.71	57.97
			<i>For 300 LB Rating, Add</i>	187.11	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.21	
			<i>For Work In Restricted Working Space, Add</i>	26.08	
23 21	13 23-0062	EA	2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	159.72	53.04
			<i>For 300 LB Rating, Add</i>	197.37	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	23.84	
23 21	13 23-0063	EA	3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	261.95	80.14
			<i>For 300 LB Rating, Add</i>	347.60	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.27	
			<i>For Work In Restricted Working Space, Add</i>	36.04	
23 21	13 23-0064	EA	3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	225.82	68.85
			<i>For 300 LB Rating, Add</i>	300.25	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	30.99	
23 21	13 23-0065	EA	4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	370.32	85.30
			<i>For 300 LB Rating, Add</i>	589.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.88	
			<i>For Work In Restricted Working Space, Add</i>	38.38	
23 21	13 23-0066		Black Malleable Iron 45 Degree Elbows <small>(23 21 13 23-0014)</small>		
23 21	13 23-0067	EA	3/8", 150 LB, Black Malleable Iron 45 Degree Elbow.....	35.75	19.20
			<i>For 300 LB Rating, Add</i>	18.38	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0068	EA	1/2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	39.86	23.08
			<i>For 300 LB Rating, Add</i>	14.75	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0069	EA	3/4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	45.23	25.81
			<i>For 300 LB Rating, Add</i>	17.97	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21	13 23-0070	EA	1", 150 LB, Black Malleable Iron 45 Degree Elbow.....	51.43	28.78
			<i>For 300 LB Rating, Add</i>	22.30	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0071	EA	1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow	63.46	32.68
			<i>For 300 LB Rating, Add</i>	37.81	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21	13 23-0072	EA	1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	73.15	36.83
			<i>For 300 LB Rating, Add</i>	46.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21	13 23-0073	EA	2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	97.26	46.81
			<i>For 300 LB Rating, Add</i>	69.41	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.43	
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0074	EA	2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	182.36	69.25
			<i>For 300 LB Rating, Add</i>	194.91	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.26	
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0075	EA	3", 150 LB, Black Malleable Iron 45 Degree Elbow.....	238.62	91.03
			<i>For 300 LB Rating, Add</i>	253.28	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	40.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow	334.75	89.68
For 300 LB Rating, Add	488.69	
For Standard Weight Cast Iron Fittings, Add	3.20	
For Work In Restricted Working Space, Add	40.35	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow	931.37	93.60
For 300 LB Rating, Add	1,906.89	
For Standard Weight Cast Iron Fittings, Add	12.66	
For Work In Restricted Working Space, Add	42.10	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow	956.04	97.87
For 300 LB Rating, Add	1,951.17	
For Standard Weight Cast Iron Fittings, Add	12.95	
For Work In Restricted Working Space, Add	44.02	
23 21 13 23-0079 Black Malleable Iron Tees <small>(23 21 13 23-0014)</small>		
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee.....	42.71	23.73
For 300 LB Rating, Add	18.22	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	10.81	
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....	47.49	28.78
For 300 LB Rating, Add	12.84	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	12.97	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	56.00	33.33
For 300 LB Rating, Add	17.70	
For Standard Weight Cast Iron Fittings, Add	0.10	
For Work In Restricted Working Space, Add	14.96	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	69.43	39.30
For 300 LB Rating, Add	28.71	
For Standard Weight Cast Iron Fittings, Add	0.17	
For Work In Restricted Working Space, Add	17.68	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	87.08	46.81
For 300 LB Rating, Add	44.98	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	21.03	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	104.79	55.76
For 300 LB Rating, Add	55.73	
For Standard Weight Cast Iron Fittings, Add	0.34	
For Work In Restricted Working Space, Add	25.10	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	139.75	69.25
For 300 LB Rating, Add	92.65	
For Standard Weight Cast Iron Fittings, Add	0.58	
For Work In Restricted Working Space, Add	31.12	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	214.14	91.03
For 300 LB Rating, Add	194.53	
For Standard Weight Cast Iron Fittings, Add	1.24	
For Work In Restricted Working Space, Add	40.95	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	276.46	108.15
For 300 LB Rating, Add	284.19	
For Standard Weight Cast Iron Fittings, Add	1.83	
For Work In Restricted Working Space, Add	48.63	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	446.31	113.32
For 300 LB Rating, Add	673.60	
For Standard Weight Cast Iron Fittings, Add	4.42	
For Work In Restricted Working Space, Add	50.97	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	1,039.38	134.53
For 300 LB Rating, Add	2,022.44	
For Standard Weight Cast Iron Fittings, Add	13.40	
For Work In Restricted Working Space, Add	60.52	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	1,129.49	153.78
For 300 LB Rating, Add	2,171.27	
For Standard Weight Cast Iron Fittings, Add	14.38	
For Work In Restricted Working Space, Add	69.17	
23 21 13 23-0092 Black Malleable Iron Reducing Tees <small>(23 21 13 23-0014)</small>		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	50.48	28.78
For 300 LB Rating, Add	20.02	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	12.97	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	59.35	33.33
For 300 LB Rating, Add	25.74	
For Standard Weight Cast Iron Fittings, Add	0.15	
For Work In Restricted Working Space, Add	14.96	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	70.89	39.30
For 300 LB Rating, Add	32.22	
For Standard Weight Cast Iron Fittings, Add	0.19	
For Work In Restricted Working Space, Add	17.68	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	93.59	46.81
For 300 LB Rating, Add	60.61	
For Standard Weight Cast Iron Fittings, Add	0.38	
For Work In Restricted Working Space, Add	21.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0097	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.70 67.52 0.42 25.10	55.76
23 21	13 23-0098	EA	2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.54 96.94 0.60 31.12	69.25
23 21	13 23-0099	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.27 290.84 1.88 40.95	91.03
23 21	13 23-0100	EA	3", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.99 333.46 2.16 48.63	108.15
23 21	13 23-0101	EA	4", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	497.04 795.35 5.23 50.97	113.32
23 21	13 23-0102	EA	5", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	960.55 1,833.25 12.14 60.52	134.53
23 21	13 23-0103	EA	6", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,091.23 2,079.44 13.77 69.17	153.78
23 21 13 23-0104 Black Malleable Iron Couplings (23 21 13 23-0014)					
23 21	13 23-0105	EA	3/8", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.54 15.48 0.09 8.64	19.20
23 21	13 23-0106	EA	1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.00 12.68 0.07 10.37	23.08
23 21	13 23-0107	EA	3/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.88 14.73 0.08 11.61	25.81
23 21	13 23-0108	EA	1", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.96 21.17 0.12 12.97	28.78
23 21	13 23-0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.96 27.01 0.16 14.68	32.68
23 21	13 23-0110	EA	1-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.72 35.81 0.22 16.55	36.83
23 21	13 23-0111	EA	2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.17 52.40 0.32 21.03	46.81
23 21	13 23-0112	EA	2-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.14 139.18 0.89 31.12	69.25
23 21	13 23-0113	EA	3", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.40 187.95 1.20 40.95	91.03
23 21	13 23-0114	EA	4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.33 370.09 2.41 40.35	89.68
23 21	13 23-0115	EA	5", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	565.09 1,027.82 6.80 42.10	93.60
23 21	13 23-0116	EA	6", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	630.61 1,170.14 7.74 44.02	97.87

23 21 13 23-0117 Black Malleable Iron Reducing Couplings (23 21 13 23-0014)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	40.06	23.08
<i>For 300 LB Rating, Add</i>	15.23	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	44.51	25.81
<i>For 300 LB Rating, Add</i>	16.24	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	11.61	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	52.25	28.78
<i>For 300 LB Rating, Add</i>	24.27	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	60.55	32.68
<i>For 300 LB Rating, Add</i>	30.82	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	69.86	36.83
<i>For 300 LB Rating, Add</i>	38.54	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling.....	91.36	46.81
<i>For 300 LB Rating, Add</i>	55.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	166.62	69.25
<i>For 300 LB Rating, Add</i>	157.14	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.01	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling.....	212.93	91.03
<i>For 300 LB Rating, Add</i>	191.62	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.22	
<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling.....	287.69	89.68
<i>For 300 LB Rating, Add</i>	375.75	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.45	
<i>For Work In Restricted Working Space, Add</i>	40.35	
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling.....	484.68	93.60
<i>For 300 LB Rating, Add</i>	834.84	
<i>For Standard Weight Cast Iron Fittings, Add</i>	5.51	
<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling.....	589.00	97.87
<i>For 300 LB Rating, Add</i>	1,070.28	
<i>For Standard Weight Cast Iron Fittings, Add</i>	7.08	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 21 13 23-0129 Black Malleable Iron Caps <small>(23 21 13 23-0014)</small>		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap	18.79	10.24
<i>For 300 LB Rating, Add</i>	8.69	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.05	
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap	21.78	11.54
<i>For 300 LB Rating, Add</i>	11.53	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap	24.74	12.84
<i>For 300 LB Rating, Add</i>	13.86	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.08	
<i>For Work In Restricted Working Space, Add</i>	5.84	
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap	28.98	14.53
<i>For 300 LB Rating, Add</i>	18.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap	34.40	16.34
<i>For 300 LB Rating, Add</i>	24.46	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	7.45	
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap	45.52	20.88
<i>For 300 LB Rating, Add</i>	35.44	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	9.46	
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap	78.75	30.87
<i>For 300 LB Rating, Add</i>	79.77	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.51	
<i>For Work In Restricted Working Space, Add</i>	14.00	
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap	108.72	40.58
<i>For 300 LB Rating, Add</i>	117.18	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.76	
<i>For Work In Restricted Working Space, Add</i>	18.43	
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap	141.61	40.00
<i>For 300 LB Rating, Add</i>	198.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.30	
<i>For Work In Restricted Working Space, Add</i>	18.16	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0139	EA	5", 150 LB, Black Malleable Iron Cap.....	256.41	41.73
			<i>For 300 LB Rating, Add</i>	467.61	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.09	
			<i>For Work In Restricted Working Space, Add</i>	18.95	
23 21	13 23-0140	EA	6", 150 LB, Black Malleable Iron Cap.....	420.28	43.58
			<i>For 300 LB Rating, Add</i>	854.19	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	5.67	
			<i>For Work In Restricted Working Space, Add</i>	19.81	
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)					
23 21	13 23-0142	EA	3/8", 150 LB, Black Malleable Iron Union.....	44.29	19.20
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0143	EA	1/2", 150 LB, Black Malleable Iron Union.....	57.23	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0144	EA	3/4", 150 LB, Black Malleable Iron Union.....	65.97	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21	13 23-0145	EA	1", 150 LB, Black Malleable Iron Union.....	79.94	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21	13 23-0146	EA	1-1/4", 150 LB, Black Malleable Iron Union.....	100.21	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0147	EA	1-1/2", 150 LB, Black Malleable Iron Union.....	121.21	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21	13 23-0148	EA	2", 150 LB, Black Malleable Iron Union.....	147.40	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0149	EA	2-1/2", 150 LB, Black Malleable Iron Union.....	283.21	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
23 21	13 23-0150	EA	3", 150 LB, Black Malleable Iron Union.....	358.09	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
23 21	13 23-0151	EA	3/8", 250 LB, Black Malleable Iron Union.....	49.27	19.20
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0152	EA	1/2", 250 LB, Black Malleable Iron Union.....	66.70	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0153	EA	3/4", 250 LB, Black Malleable Iron Union.....	72.96	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21	13 23-0154	EA	1", 250 LB, Black Malleable Iron Union.....	87.26	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21	13 23-0155	EA	1-1/4", 250 LB, Black Malleable Iron Union.....	117.63	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0156	EA	1-1/2", 250 LB, Black Malleable Iron Union.....	138.39	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21	13 23-0157	EA	2", 250 LB, Black Malleable Iron Union.....	173.95	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0158	EA	2-1/2", 250 LB, Black Malleable Iron Union.....	373.21	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
23 21	13 23-0159	EA	3", 250 LB, Black Malleable Iron Union.....	459.06	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
23 21	13 23-0160	EA	4", 250 LB, Black Malleable Iron Union.....	655.07	132.34
			<i>For Work In Restricted Working Space, Add</i>	59.56	
23 21	13 23-0161	EA	3/8", 300 LB, Black Malleable Iron Union.....	62.01	19.20
			<i>For Work In Restricted Working Space, Add</i>	8.64	
23 21	13 23-0162	EA	1/2", 300 LB, Black Malleable Iron Union.....	70.08	28.78
			<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21	13 23-0163	EA	3/4", 300 LB, Black Malleable Iron Union.....	79.62	33.33
			<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21	13 23-0164	EA	1", 300 LB, Black Malleable Iron Union.....	97.77	39.30
			<i>For Work In Restricted Working Space, Add</i>	17.68	
23 21	13 23-0165	EA	1-1/4", 300 LB, Black Malleable Iron Union.....	133.43	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-0166	EA	1-1/2", 300 LB, Black Malleable Iron Union.....	149.99	55.76
			<i>For Work In Restricted Working Space, Add</i>	25.10	
23 21	13 23-0167	EA	2", 300 LB, Black Malleable Iron Union.....	185.90	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-0168	EA	2-1/2", 300 LB, Black Malleable Iron Union.....	418.05	102.05
			<i>For Work In Restricted Working Space, Add</i>	45.94	
23 21	13 23-0169	EA	3", 300 LB, Black Malleable Iron Union.....	544.20	134.22
			<i>For Work In Restricted Working Space, Add</i>	60.45	
23 21	13 23-0170	EA	4", 300 LB, Black Malleable Iron Union.....	1,286.25	132.34
			<i>For Work In Restricted Working Space, Add</i>	59.56	
23 21 13 23-0171 Black Steel Nipples (23 21 13 23-0014)					
23 21	13 23-0172	EA	3/8" x Close, Schedule 40 Black Steel Nipple.....	20.56	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.02	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0173	EA	1/2" x Close, Schedule 40 Black Steel Nipple.....	20.24	12.31
			<i>For Schedule 80 Nipples, Add</i>	0.86	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0174	EA	3/4" x Close, Schedule 40 Black Steel Nipple.....	20.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	0.99	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0175	EA	1" x Close, Schedule 40 Black Steel Nipple.....	22.82	13.36
			<i>For Schedule 80 Nipples, Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	5.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple	25.25	14.40
For Schedule 80 Nipples, Add	1.82	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple	26.14	14.40
For Schedule 80 Nipples, Add	2.27	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	34.06	18.54
For Schedule 80 Nipples, Add	3.09	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple	53.89	23.08
For Schedule 80 Nipples, Add	9.66	
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	64.78	27.88
For Schedule 80 Nipples, Add	11.48	
For Work In Restricted Working Space, Add	12.55	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	80.68	30.78
For Schedule 80 Nipples, Add	17.28	
For Work In Restricted Working Space, Add	13.84	
23 21 13 23-0182 EA 3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.84	12.31
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0183 EA 1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.24	12.31
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0184 EA 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0185 EA 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	20.84	12.31
For Schedule 80 Nipples, Add	1.16	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0186 EA 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	20.24	12.31
For Schedule 80 Nipples, Add	0.86	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0187 EA 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	20.65	12.31
For Schedule 80 Nipples, Add	1.07	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0188 EA 1" x 2" Long, Schedule 40 Black Steel Nipple.....	23.10	13.36
For Schedule 80 Nipples, Add	1.58	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0189 EA 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple	25.74	14.40
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0190 EA 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple	26.50	14.40
For Schedule 80 Nipples, Add	2.45	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0191 EA 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	34.97	18.54
For Schedule 80 Nipples, Add	3.54	
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
For Schedule 80 Nipples, Add	1.49	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	20.56	12.31
For Schedule 80 Nipples, Add	1.02	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	20.92	12.31
For Schedule 80 Nipples, Add	1.20	
For Work In Restricted Working Space, Add	5.56	
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple.....	23.29	13.36
For Schedule 80 Nipples, Add	1.67	
For Work In Restricted Working Space, Add	5.99	
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple	25.99	14.40
For Schedule 80 Nipples, Add	2.19	
For Work In Restricted Working Space, Add	6.48	
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple	27.08	14.40
For Schedule 80 Nipples, Add	2.74	
For Work In Restricted Working Space, Add	6.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple.....	34.97	18.54
			<i>For Schedule 80 Nipples, Add</i>	3.54	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	54.40	23.08
			<i>For Schedule 80 Nipples, Add</i>	9.91	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple.....	66.78	27.88
			<i>For Schedule 80 Nipples, Add</i>	12.48	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	22.03	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	20.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.23	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0210	EA	1" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	24.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0211	EA	1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	26.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	22.03	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.76	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	20.97	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.23	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	21.50	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple.....	24.08	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple.....	26.80	14.40
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	27.74	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple.....	36.46	18.54
			<i>For Schedule 80 Nipples, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	57.89	23.08
			<i>For Schedule 80 Nipples, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple.....	71.37	27.88
			<i>For Schedule 80 Nipples, Add</i>	14.77	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple.....	86.11	30.78
			<i>For Schedule 80 Nipples, Add</i>	20.00	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
			<i>For Schedule 80 Nipples, Add</i>	2.53	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.44	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
			<i>For Schedule 80 Nipples, Add</i>	1.87	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	27.82	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.11	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple.....	29.10	14.40
			<i>For Schedule 80 Nipples, Add</i>	3.75	
			<i>For Work In Restricted Working Space, Add</i>	6.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	37.76	18.54
<i>For Schedule 80 Nipples, Add</i>	4.94	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	60.19	23.08
<i>For Schedule 80 Nipples, Add</i>	12.81	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple	74.42	27.88
<i>For Schedule 80 Nipples, Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	91.81	30.78
<i>For Schedule 80 Nipples, Add</i>	22.85	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	23.58	12.31
<i>For Schedule 80 Nipples, Add</i>	2.53	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	21.39	12.31
<i>For Schedule 80 Nipples, Add</i>	1.44	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0238 EA 3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	22.26	12.31
<i>For Schedule 80 Nipples, Add</i>	1.87	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0239 EA 1" x 5" Long, Schedule 40 Black Steel Nipple.....	24.84	13.36
<i>For Schedule 80 Nipples, Add</i>	2.45	
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21 13 23-0240 EA 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	27.82	14.40
<i>For Schedule 80 Nipples, Add</i>	3.11	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0241 EA 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	29.10	14.40
<i>For Schedule 80 Nipples, Add</i>	3.75	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0242 EA 2" x 5" Long, Schedule 40 Black Steel Nipple.....	37.76	18.54
<i>For Schedule 80 Nipples, Add</i>	4.94	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0243 EA 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	60.19	23.08
<i>For Schedule 80 Nipples, Add</i>	12.81	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0244 EA 3" x 5" Long, Schedule 40 Black Steel Nipple.....	74.42	27.88
<i>For Schedule 80 Nipples, Add</i>	16.30	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0245 EA 4" x 5" Long, Schedule 40 Black Steel Nipple.....	91.81	30.78
<i>For Schedule 80 Nipples, Add</i>	22.85	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0246 EA 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	24.16	12.31
<i>For Schedule 80 Nipples, Add</i>	2.82	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0247 EA 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	21.73	12.31
<i>For Schedule 80 Nipples, Add</i>	1.61	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	22.77	12.31
<i>For Schedule 80 Nipples, Add</i>	2.13	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple.....	25.74	13.36
<i>For Schedule 80 Nipples, Add</i>	2.90	
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple	28.97	14.40
<i>For Schedule 80 Nipples, Add</i>	3.68	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple	30.20	14.40
<i>For Schedule 80 Nipples, Add</i>	4.30	
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple.....	39.46	18.54
<i>For Schedule 80 Nipples, Add</i>	5.79	
<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple	61.27	23.08
<i>For Schedule 80 Nipples, Add</i>	13.35	
<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple.....	77.25	27.88
<i>For Schedule 80 Nipples, Add</i>	17.71	
<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple.....	94.96	30.78
<i>For Schedule 80 Nipples, Add</i>	24.42	
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	28.41	12.31
<i>For Schedule 80 Nipples, Add</i>	4.95	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	24.31	12.31
<i>For Schedule 80 Nipples, Add</i>	2.90	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	25.60	12.31
<i>For Schedule 80 Nipples, Add</i>	3.54	
<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple.....	29.42	13.36
<i>For Schedule 80 Nipples, Add</i>	4.74	
<i>For Work In Restricted Working Space, Add</i>	5.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple.....	33.50	14.40
			<i>For Schedule 80 Nipples, Add</i>	5.95	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	35.24	14.40
			<i>For Schedule 80 Nipples, Add</i>	6.82	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	47.29	18.54
			<i>For Schedule 80 Nipples, Add</i>	9.70	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	68.55	23.08
			<i>For Schedule 80 Nipples, Add</i>	16.99	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	89.60	27.88
			<i>For Schedule 80 Nipples, Add</i>	23.89	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	102.49	30.78
			<i>For Schedule 80 Nipples, Add</i>	28.19	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0266	EA	3/8" x 10" Long, Schedule 40 Black Steel Nipple.....	29.62	12.31
			<i>For Schedule 80 Nipples, Add</i>	5.55	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0267	EA	1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	25.48	12.31
			<i>For Schedule 80 Nipples, Add</i>	3.48	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0268	EA	3/4" x 10" Long, Schedule 40 Black Steel Nipple.....	26.75	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.12	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0269	EA	1" x 10" Long, Schedule 40 Black Steel Nipple.....	31.01	13.36
			<i>For Schedule 80 Nipples, Add</i>	5.53	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0270	EA	1-1/4" x 10" Long, Schedule 40 Black Steel Nipple.....	35.86	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.13	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0271	EA	1-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	37.56	14.40
			<i>For Schedule 80 Nipples, Add</i>	7.98	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0272	EA	2" x 10" Long, Schedule 40 Black Steel Nipple.....	50.69	18.54
			<i>For Schedule 80 Nipples, Add</i>	11.40	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0273	EA	2-1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	72.74	23.08
			<i>For Schedule 80 Nipples, Add</i>	19.08	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0274	EA	3" x 10" Long, Schedule 40 Black Steel Nipple.....	95.50	27.88
			<i>For Schedule 80 Nipples, Add</i>	26.84	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0275	EA	4" x 10" Long, Schedule 40 Black Steel Nipple.....	110.31	30.78
			<i>For Schedule 80 Nipples, Add</i>	32.10	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0276	EA	3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	31.15	12.31
			<i>For Schedule 80 Nipples, Add</i>	6.32	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0277	EA	1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	26.77	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.13	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0278	EA	3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	27.67	12.31
			<i>For Schedule 80 Nipples, Add</i>	4.58	
			<i>For Work In Restricted Working Space, Add</i>	5.56	
23 21	13 23-0279	EA	1" x 12" Long, Schedule 40 Black Steel Nipple.....	32.65	13.36
			<i>For Schedule 80 Nipples, Add</i>	6.35	
			<i>For Work In Restricted Working Space, Add</i>	5.99	
23 21	13 23-0280	EA	1-1/4" x 12" Long, Schedule 40 Black Steel Nipple.....	37.78	14.40
			<i>For Schedule 80 Nipples, Add</i>	8.09	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0281	EA	1-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	39.99	14.40
			<i>For Schedule 80 Nipples, Add</i>	9.19	
			<i>For Work In Restricted Working Space, Add</i>	6.48	
23 21	13 23-0282	EA	2" x 12" Long, Schedule 40 Black Steel Nipple.....	54.14	18.54
			<i>For Schedule 80 Nipples, Add</i>	13.13	
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-0283	EA	2-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	77.04	23.08
			<i>For Schedule 80 Nipples, Add</i>	21.23	
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-0284	EA	3" x 12" Long, Schedule 40 Black Steel Nipple.....	101.39	27.88
			<i>For Schedule 80 Nipples, Add</i>	29.78	
			<i>For Work In Restricted Working Space, Add</i>	12.55	
23 21	13 23-0285	EA	4" x 12" Long, Schedule 40 Black Steel Nipple.....	121.38	30.78
			<i>For Schedule 80 Nipples, Add</i>	37.63	
			<i>For Work In Restricted Working Space, Add</i>	13.84	
23 21	13 23-0286		Black Malleable Iron Bushing <small>(23 21 13 23-0014)</small>		
	23 21	13 23-0287	EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	36.60	21.14
			<i>For Work In Restricted Working Space, Add</i>	9.51	
	23 21	13 23-0288	EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	41.12	22.70
			<i>For Work In Restricted Working Space, Add</i>	10.22	



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Piping and Pumps

23 20

Hydronic Piping and Pumps

23 21

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0289	EA	3/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	43.72 11.00	24.38
23 21	13 23-0290	EA	1" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.06 10.89	24.25
23 21	13 23-0291	EA	1" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.19 11.67	25.94
23 21	13 23-0292	EA	1" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.26 12.29	27.36
23 21	13 23-0293	EA	1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	50.11 11.75	26.07
23 21	13 23-0294	EA	1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	52.20 12.53	27.88
23 21	13 23-0295	EA	1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	53.21 13.14	29.18
23 21	13 23-0296	EA	1-1/4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	55.48 13.82	30.73
23 21	13 23-0297	EA	1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.71 12.68	28.27
23 21	13 23-0298	EA	1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.77 13.46	29.95
23 21	13 23-0299	EA	1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	58.83 14.08	31.25
23 21	13 23-0300	EA	1-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.65 14.76	32.81
23 21	13 23-0301	EA	1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.98 15.62	34.75
23 21	13 23-0302	EA	2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.12 14.92	33.20
23 21	13 23-0303	EA	2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.30 15.70	34.88
23 21	13 23-0304	EA	2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.60 16.32	36.31
23 21	13 23-0305	EA	2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	70.89 17.00	37.74
23 21	13 23-0306	EA	2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	73.75 17.85	39.68
23 21	13 23-0307	EA	2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	78.48 18.79	41.75
23 21	13 23-0308	EA	2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	97.10 21.37	47.47
23 21	13 23-0309	EA	2-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	99.35 22.04	49.02
23 21	13 23-0310	EA	2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	102.21 22.90	50.84
23 21	13 23-0311	EA	2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	103.57 23.84	53.04
23 21	13 23-0312	EA	2-1/2" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	110.83 26.08	57.97
23 21	13 23-0313	EA	3" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	123.39 26.28	58.35
23 21	13 23-0314	EA	3" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	125.64 26.96	59.91
23 21	13 23-0315	EA	3" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	128.50 27.82	61.85
23 21	13 23-0316	EA	3" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	130.93 28.76	63.93
23 21	13 23-0317	EA	3" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.08 30.99	68.85
23 21	13 23-0318	EA	3" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.39 36.04	80.14
23 21	13 23-0319	EA	4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	153.08 25.34	56.26
23 21	13 23-0320	EA	4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	155.08 25.94	57.64
23 21	13 23-0321	EA	4" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	157.62 26.70	59.37
23 21	13 23-0322	EA	4" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	160.39 27.53	61.22
23 21	13 23-0323	EA	4" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	163.33 29.52	65.60
23 21	13 23-0324	EA	4" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	178.29 34.01	75.62
23 21	13 23-0325	EA	4" x 3", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	192.85 38.38	85.30
23 21	13 23-0326		Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21	13 23-0327	EA	3/8", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	15.28 3.46	7.65
23 21	13 23-0328	EA	1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	17.83 4.15	9.21
23 21	13 23-0329	EA	3/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	19.48 4.64	10.37

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....	22.31	11.54
For Work In Restricted Working Space, Add	5.18	
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....	25.90	13.10
For Work In Restricted Working Space, Add	5.87	
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	30.90	14.66
For Work In Restricted Working Space, Add	6.62	
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....	40.59	18.67
For Work In Restricted Working Space, Add	8.41	
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	64.34	27.62
For Work In Restricted Working Space, Add	12.45	
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....	85.97	36.44
For Work In Restricted Working Space, Add	16.38	
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....	119.58	35.85
For Work In Restricted Working Space, Add	16.14	
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....	197.44	37.46
For Work In Restricted Working Space, Add	16.84	
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....	233.70	39.07
For Work In Restricted Working Space, Add	17.61	
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges <small>(23 21 13 23-0014)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange.....	149.43	51.87
For Work In Restricted Working Space, Add	23.34	
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange.....	133.47	58.61
For Work In Restricted Working Space, Add	26.38	
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange.....	145.49	60.69
For Work In Restricted Working Space, Add	27.30	
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange.....	149.35	66.01
For Work In Restricted Working Space, Add	29.70	
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange.....	153.58	68.85
For Work In Restricted Working Space, Add	31.00	
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange.....	178.30	79.75
For Work In Restricted Working Space, Add	35.85	
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange.....	227.40	101.15
For Work In Restricted Working Space, Add	45.50	
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange.....	286.51	123.01
For Work In Restricted Working Space, Add	55.33	
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange.....	363.77	146.52
For Work In Restricted Working Space, Add	65.87	
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange.....	415.31	168.20
For Work In Restricted Working Space, Add	75.65	
23 21 13 23-0350 150 LB, Black Malleable Iron Flanges <small>(23 21 13 23-0014)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange.....	86.89	47.33
For Work In Restricted Working Space, Add	21.32	
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange.....	94.88	51.87
For Work In Restricted Working Space, Add	23.34	
23 21 13 23-0353 EA 1", 150 LB, Black Malleable Iron Flange.....	110.08	58.61
For Work In Restricted Working Space, Add	26.37	
23 21 13 23-0354 EA 1-1/4", 150 LB, Black Malleable Iron Flange.....	114.70	60.69
For Work In Restricted Working Space, Add	27.30	
23 21 13 23-0355 EA 1-1/2", 150 LB, Black Malleable Iron Flange.....	124.86	66.01
For Work In Restricted Working Space, Add	29.70	
23 21 13 23-0356 EA 2", 150 LB, Black Malleable Iron Flange.....	137.05	68.85
For Work In Restricted Working Space, Add	30.99	
23 21 13 23-0357 EA 2-1/2", 150 LB, Black Malleable Iron Flange.....	172.41	79.75
For Work In Restricted Working Space, Add	35.85	
23 21 13 23-0358 EA 3", 150 LB, Black Malleable Iron Flange.....	218.50	101.15
For Work In Restricted Working Space, Add	45.49	
23 21 13 23-0359 EA 4", 150 LB, Black Malleable Iron Flange.....	297.99	123.01
For Work In Restricted Working Space, Add	55.32	
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe <small>(23 21 13 23-0014)</small>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0361 EA 1/2", Cut And Thread Existing In Place Black Steel Pipe.....	42.25	
For Work In Restricted Working Space, Add	12.68	
23 21 13 23-0362 EA 3/4", Cut And Thread Existing In Place Black Steel Pipe.....	46.48	
For Work In Restricted Working Space, Add	13.94	
23 21 13 23-0363 EA 1", Cut And Thread Existing In Place Black Steel Pipe.....	50.71	
For Work In Restricted Working Space, Add	15.21	
23 21 13 23-0364 EA 1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....	54.93	
For Work In Restricted Working Space, Add	16.48	
23 21 13 23-0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	57.74	
For Work In Restricted Working Space, Add	17.32	
23 21 13 23-0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe.....	60.56	
For Work In Restricted Working Space, Add	18.17	
23 21 13 23-0367 EA 2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	63.38	
For Work In Restricted Working Space, Add	19.01	
23 21 13 23-0368 EA 3", Cut And Thread Existing In Place Black Steel Pipe.....	66.19	
For Work In Restricted Working Space, Add	19.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0369 EA 4", Cut And Thread Existing In Place Black Steel Pipe.....	69.01	
<i>For Work In Restricted Working Space, Add</i>	20.70	
23 21 13 23-0370 EA 6", Cut And Thread Existing In Place Black Steel Pipe.....	74.64	
<i>For Work In Restricted Working Space, Add</i>	22.39	
23 21 13 23-0371 EA 8", Cut And Thread Existing In Place Black Steel Pipe.....	80.27	
<i>For Work In Restricted Working Space, Add</i>	24.08	
23 21 13 23-0372 EA 10", Cut And Thread Existing In Place Black Steel Pipe.....	87.32	
<i>For Work In Restricted Working Space, Add</i>	26.20	
23 21 13 23-0373 EA 12", Cut And Thread Existing In Place Black Steel Pipe.....	92.95	
<i>For Work In Restricted Working Space, Add</i>	27.89	
23 21 13 23-0374 Welded Black Steel Pipe <small>(23 21 13 23)</small>		
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies <small>(23 21 13 23-0374)</small>		
<small>Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	29.80	9.84
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	7.19	
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	33.25	10.49
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	8.06	
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	39.64	11.15
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	9.24	
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	42.34	11.15
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	9.67	
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	48.55	11.15
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	11.19	
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly	56.27	11.15
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	12.97	
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	64.64	10.89
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	13.68	
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	80.41	12.52
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	15.54	
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	107.75	18.66
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	163.33	23.18
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	26.54	
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	216.51	28.98
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	31.65	
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	270.94	35.00
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	36.57	
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	299.52	45.67
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	40.80	
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	347.51	57.95
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	45.59	
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	437.75	71.74
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	50.03	
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	556.29	88.67
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	57.26	
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	683.73	100.49
<small>Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.</small>		
<i>For Work In Restricted Working Space, Add</i>	62.96	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13	23-0393		Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13	23-0394		Welded Plain End Black Steel Piping <small>(23 21 13 23-0393)</small> Note: ASTM A-53		
23 21 13	23-0395	LF	3/4" Schedule 40, Welded Plain End Black Steel Pipe	12.84	5.25
			<i>For Schedule 80 Pipe, Add</i>	2.04	
			<i>For Schedule A-106 Pipe, Add</i>	0.28	
			<i>For Work In Restricted Working Space, Add</i>	3.15	
23 21 13	23-0396	LF	1" Schedule 40, Welded Plain End Black Steel Pipe	16.24	6.55
			<i>For Schedule 80 Pipe, Add</i>	2.59	
			<i>For Schedule A-106 Pipe, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	3.94	
23 21 13	23-0397	LF	1-1/4" Schedule 40, Welded Plain End Black Steel Pipe	20.32	7.87
			<i>For Schedule 80 Pipe, Add</i>	3.28	
			<i>For Schedule A-106 Pipe, Add</i>	0.55	
			<i>For Work In Restricted Working Space, Add</i>	4.72	
23 21 13	23-0398	LF	1-1/2" Schedule 40, Welded Plain End Black Steel Pipe	24.45	9.18
			<i>For Schedule 80 Pipe, Add</i>	3.97	
			<i>For Schedule A-106 Pipe, Add</i>	0.73	
			<i>For Work In Restricted Working Space, Add</i>	5.51	
23 21 13	23-0399	LF	2" Schedule 40, Welded Plain End Black Steel Pipe	29.05	10.89
			<i>For Schedule 80 Pipe, Add</i>	4.72	
			<i>For Schedule A-106 Pipe, Add</i>	0.87	
			<i>For Work In Restricted Working Space, Add</i>	6.53	
23 21 13	23-0400	LF	2-1/2" Schedule 40, Welded Plain End Black Steel Pipe	33.14	12.33
			<i>For Schedule 80 Pipe, Add</i>	7.28	
			<i>For Schedule A-106 Pipe, Add</i>	1.02	
			<i>For Work In Restricted Working Space, Add</i>	7.40	
23 21 13	23-0401	LF	3" Schedule 40, Welded Plain End Black Steel Pipe	39.97	13.25
			<i>For Schedule 80 Pipe, Add</i>	9.35	
			<i>For Schedule A-106 Pipe, Add</i>	1.62	
			<i>For Work In Restricted Working Space, Add</i>	7.95	
23 21 13	23-0402	LF	4" Schedule 40, Welded Plain End Black Steel Pipe	54.37	16.40
			<i>For Schedule 80 Pipe, Add</i>	13.29	
			<i>For Schedule A-106 Pipe, Add</i>	2.59	
			<i>For Work In Restricted Working Space, Add</i>	9.84	
23 21 13	23-0403	LF	6" Schedule 40, Welded Plain End Black Steel Pipe	76.84	26.56
			<i>For Schedule 80 Pipe, Add</i>	19.78	
			<i>For Schedule A-106 Pipe, Add</i>	4.34	
			<i>For Work In Restricted Working Space, Add</i>	12.20	
23 21 13	23-0404	LF	8" Schedule 40, Welded Plain End Black Steel Pipe	104.38	24.92
			<i>For Schedule 80 Pipe, Add</i>	27.81	
			<i>For Schedule A-106 Pipe, Add</i>	6.54	
			<i>For Schedule 30 Pipe, Deduct</i>	-15.89	
			<i>For Work In Restricted Working Space, Add</i>	14.95	
23 21 13	23-0405	LF	10" Schedule 40, Welded Plain End Black Steel Pipe	137.24	30.02
			<i>For Schedule 80 Pipe, Add</i>	37.53	
			<i>For Schedule A-106 Pipe, Add</i>	9.26	
			<i>For Schedule 30 Pipe, Deduct</i>	-21.44	
			<i>For Work In Restricted Working Space, Add</i>	18.01	
23 21 13	23-0406	LF	12" Schedule 40, Welded Plain End Black Steel Pipe	174.65	36.27
			<i>For Schedule 80 Pipe, Add</i>	48.43	
			<i>For Schedule A-106 Pipe, Add</i>	12.25	
			<i>For Schedule 30 Pipe, Deduct</i>	-27.67	
			<i>For Work In Restricted Working Space, Add</i>	21.77	
23 21 13	23-0407	LF	14" Schedule 40, Welded Plain End Black Steel Pipe	169.59	38.25
			<i>For Schedule 80 Pipe, Add</i>	45.97	
			<i>For Schedule A-106 Pipe, Add</i>	11.17	
			<i>For Schedule 30 Pipe, Deduct</i>	-26.27	
			<i>For Schedule 20 Pipe, Deduct</i>	-47.88	
			<i>For Work In Restricted Working Space, Add</i>	22.95	
23 21 13	23-0408	LF	16" Schedule 40, Welded Plain End Black Steel Pipe	186.34	41.15
			<i>For Schedule 80 Pipe, Add</i>	50.82	
			<i>For Schedule A-106 Pipe, Add</i>	12.49	
			<i>For Schedule 30 Pipe, Deduct</i>	-29.04	
			<i>For Schedule 20 Pipe, Deduct</i>	-52.88	
			<i>For Work In Restricted Working Space, Add</i>	24.69	
23 21 13	23-0409	LF	18" Schedule 40, Welded Plain End Black Steel Pipe	233.22	44.51
			<i>For Schedule 80 Pipe, Add</i>	66.05	
			<i>For Schedule A-106 Pipe, Add</i>	17.31	
			<i>For Schedule 30 Pipe, Deduct</i>	-37.74	
			<i>For Schedule 20 Pipe, Deduct</i>	-68.28	
			<i>For Work In Restricted Working Space, Add</i>	26.70	
23 21 13	23-0410	LF	20" Schedule 40, Welded Plain End Black Steel Pipe	275.96	53.32
			<i>For Schedule 80 Pipe, Add</i>	77.93	
			<i>For Schedule A-106 Pipe, Add</i>	20.32	
			<i>For Work In Restricted Working Space, Add</i>	31.99	
23 21 13	23-0411	LF	24" Schedule 40, Welded Plain End Black Steel Pipe	341.37	61.32
			<i>For Schedule 80 Pipe, Add</i>	98.02	
			<i>For Schedule A-106 Pipe, Add</i>	26.25	
			<i>For Work In Restricted Working Space, Add</i>	36.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0412 Welded Plain End Black Steel 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0413 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	131.81	73.49
For Schedule 80 Or Extra Heavy Fittings, Add	27.98	
For Work In Restricted Working Space, Add	33.03	
23 21 13 23-0414 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	137.59	77.31
For Schedule 80 Or Extra Heavy Fittings, Add	29.11	
For Work In Restricted Working Space, Add	34.77	
23 21 13 23-0415 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	153.81	88.09
For Schedule 80 Or Extra Heavy Fittings, Add	32.27	
For Work In Restricted Working Space, Add	39.63	
23 21 13 23-0416 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	164.25	95.04
For Schedule 80 Or Extra Heavy Fittings, Add	34.31	
For Work In Restricted Working Space, Add	42.77	
23 21 13 23-0417 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	207.12	123.68
For Schedule 80 Or Extra Heavy Fittings, Add	42.67	
For Work In Restricted Working Space, Add	55.63	
23 21 13 23-0418 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	260.72	154.62
For Schedule 80 Or Extra Heavy Fittings, Add	53.88	
For Work In Restricted Working Space, Add	69.53	
23 21 13 23-0419 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	300.39	177.36
For Schedule 80 Or Extra Heavy Fittings, Add	62.21	
For Work In Restricted Working Space, Add	79.74	
23 21 13 23-0420 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	516.63	306.44
For Schedule 80 Or Extra Heavy Fittings, Add	106.75	
For Work In Restricted Working Space, Add	137.83	
23 21 13 23-0421 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	898.88	505.70
For Schedule 80 Or Extra Heavy Fittings, Add	190.05	
For Work In Restricted Working Space, Add	227.48	
23 21 13 23-0422 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,202.74	628.11
For Schedule 80 Or Extra Heavy Fittings, Add	261.94	
For Work In Restricted Working Space, Add	282.53	
23 21 13 23-0423 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,555.48	717.93
For Schedule 80 Or Extra Heavy Fittings, Add	353.63	
For Work In Restricted Working Space, Add	322.89	
23 21 13 23-0424 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,103.07	939.31
For Schedule 80 Or Extra Heavy Fittings, Add	463.06	
For Work In Restricted Working Space, Add	422.47	
23 21 13 23-0425 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,605.07	1,110.28
For Schedule 80 Or Extra Heavy Fittings, Add	606.74	
For Work In Restricted Working Space, Add	499.38	
23 21 13 23-0426 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,231.07	1,296.54
For Schedule 80 Or Extra Heavy Fittings, Add	765.23	
For Work In Restricted Working Space, Add	583.13	
23 21 13 23-0427 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,824.24	1,445.72
For Schedule 80 Or Extra Heavy Fittings, Add	919.69	
For Work In Restricted Working Space, Add	650.23	
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	4,865.49	1,620.96
For Schedule 80 Or Extra Heavy Fittings, Add	1,204.46	
For Work In Restricted Working Space, Add	729.10	
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	5,693.84	1,675.10
For Schedule 80 Or Extra Heavy Fittings, Add	1,444.46	
For Work In Restricted Working Space, Add	753.40	
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow	695.55	306.96
For Schedule 80 Or Extra Heavy Fittings, Add	160.34	
For Work In Restricted Working Space, Add	138.08	
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,209.79	499.93
For Schedule 80 Or Extra Heavy Fittings, Add	284.23	
For Work In Restricted Working Space, Add	224.88	
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,288.70	499.93
For Schedule 80 Or Extra Heavy Fittings, Add	307.90	
For Work In Restricted Working Space, Add	224.88	
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,912.53	628.11
For Schedule 80 Or Extra Heavy Fittings, Add	474.88	
For Work In Restricted Working Space, Add	282.53	
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,100.66	628.11
For Schedule 80 Or Extra Heavy Fittings, Add	531.31	
For Work In Restricted Working Space, Add	282.53	
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,628.01	717.93
For Schedule 80 Or Extra Heavy Fittings, Add	675.39	
For Work In Restricted Working Space, Add	322.89	
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,628.01	717.93
For Schedule 80 Or Extra Heavy Fittings, Add	675.39	
For Work In Restricted Working Space, Add	322.89	
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	4,316.02	957.16
For Schedule 80 Or Extra Heavy Fittings, Add	1,144.13	
For Work In Restricted Working Space, Add	430.51	
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	4,316.02	957.16
For Schedule 80 Or Extra Heavy Fittings, Add	1,144.13	
For Work In Restricted Working Space, Add	430.51	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0440 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,827.77 1,297.65 430.51	957.16
23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)		
23 21 13 23-0442 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.73 26.91 33.45	74.38
23 21 13 23-0443 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.67 27.68 34.63	77.00
23 21 13 23-0444 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.73 31.01 39.75	88.42
23 21 13 23-0445 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.21 33.05 42.89	95.37
23 21 13 23-0446 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.20 41.24 55.49	123.31
23 21 13 23-0447 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.24 51.29 69.66	154.92
23 21 13 23-0448 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	291.02 59.40 79.73	177.23
23 21 13 23-0449 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	501.06 102.09 137.79	306.30
23 21 13 23-0450 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	860.06 178.49 227.22	505.17
23 21 13 23-0451 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,132.31 240.81 282.53	628.11
23 21 13 23-0452 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,426.18 314.84 322.89	717.93
23 21 13 23-0453 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,912.93 426.29 421.68	937.57
23 21 13 23-0454 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,353.49 531.03 500.04	1,111.79
23 21 13 23-0455 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,881.68 660.62 582.53	1,295.15
23 21 13 23-0456 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,374.66 785.08 649.48	1,443.97
23 21 13 23-0457 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,208.35 1,007.32 729.10	1,620.96
23 21 13 23-0458 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,835.04 1,186.82 753.40	1,675.10
23 21 13 23-0459 Welded Plain End Black Steel Tee (23 21 13 23-0393)		
23 21 13 23-0460 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.91 56.53 62.97	139.97
23 21 13 23-0461 EA 1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21 13 23-0462 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	296.12 64.33 70.02	155.71
23 21 13 23-0463 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.07 69.97 78.71	175.00
23 21 13 23-0464 EA 2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	405.73 84.94 105.08	233.63
23 21 13 23-0465 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.46 97.42 118.07	262.49
23 21 13 23-0466 EA 3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.78 116.00 143.25	318.76
23 21 13 23-0467 EA 4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	796.53 166.47 207.12	460.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,333.83 280.38 342.20	760.84
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,792.67 387.12 430.51	957.16
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,273.85 506.36 502.27	1,116.65
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,064.55 693.35 645.77	1,435.74
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,977.61 929.59 753.40	1,675.10
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,786.24 1,119.45 904.08	2,010.07
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,244.00 1,521.61 1,004.53	2,233.42
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,237.36 2,075.67 1,130.10	2,512.64
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	9,509.41 2,426.86 1,217.03	2,705.92
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees <small>(23 21 13 23-0393)</small>		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	255.36 55.26 61.00	135.64
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	261.85 56.52 62.95	139.97
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	292.79 63.33 70.02	155.71
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	321.74 68.97 78.71	175.00
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	413.22 87.18 105.11	233.63
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	462.62 97.45 118.11	262.62
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	554.13 116.10 143.25	318.76
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	797.02 166.61 207.12	460.57
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,334.67 280.63 342.20	760.84
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,794.28 387.60 430.51	957.16
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,276.59 507.18 502.27	1,116.65
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,068.69 694.59 645.77	1,435.74
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,984.28 931.59 753.40	1,675.10
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,794.30 1,121.86 904.08	2,010.07
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,257.19 1,525.57 1,004.53	2,233.42
23 21 13 23-0493 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,365.50 2,114.12 1,130.10	2,512.64
23 21 13 23-0494 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	10,081.78 2,598.57 1,217.03	2,705.92

23 21 13 23-0495 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0496	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer.....	217.67	85.31
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	51.87	
			<i>For Work In Restricted Working Space, Add</i>	38.37	
23 21	13 23-0497	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	230.11	93.61
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	54.30	
			<i>For Work In Restricted Working Space, Add</i>	42.10	
23 21	13 23-0498	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	226.85	91.43
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	53.66	
			<i>For Work In Restricted Working Space, Add</i>	41.12	
23 21	13 23-0499	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	245.20	103.68
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	57.24	
			<i>For Work In Restricted Working Space, Add</i>	46.63	
23 21	13 23-0500	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	236.02	97.55
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	55.45	
			<i>For Work In Restricted Working Space, Add</i>	43.87	
23 21	13 23-0501	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	232.75	95.37
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	54.81	
			<i>For Work In Restricted Working Space, Add</i>	42.89	
23 21	13 23-0502	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	239.98	123.79
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	52.51	
			<i>For Work In Restricted Working Space, Add</i>	55.68	
23 21	13 23-0503	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	267.77	119.85
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	61.46	
			<i>For Work In Restricted Working Space, Add</i>	53.91	
23 21	13 23-0504	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	258.59	113.73
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	59.67	
			<i>For Work In Restricted Working Space, Add</i>	51.15	
23 21	13 23-0505	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	299.16	157.47
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	64.96	
			<i>For Work In Restricted Working Space, Add</i>	70.82	
23 21	13 23-0506	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	285.77	141.28
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	63.49	
			<i>For Work In Restricted Working Space, Add</i>	63.55	
23 21	13 23-0507	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	339.69	137.34
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	80.29	
			<i>For Work In Restricted Working Space, Add</i>	61.78	
23 21	13 23-0508	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	334.06	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	72.39	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0509	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	338.95	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	73.86	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0510	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	349.29	176.70
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	76.96	
			<i>For Work In Restricted Working Space, Add</i>	79.50	
23 21	13 23-0511	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	550.56	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	116.84	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0512	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	555.44	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	118.30	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0513	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	570.14	306.96
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	122.71	
			<i>For Work In Restricted Working Space, Add</i>	138.09	
23 21	13 23-0514	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	935.56	499.93
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	201.96	
			<i>For Work In Restricted Working Space, Add</i>	224.88	
23 21	13 23-0515	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,041.05	499.93
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	233.61	
			<i>For Work In Restricted Working Space, Add</i>	224.88	
23 21	13 23-0516	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,377.78	760.84
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	293.56	
			<i>For Work In Restricted Working Space, Add</i>	342.21	
23 21	13 23-0517	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,574.07	760.84
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	352.45	
			<i>For Work In Restricted Working Space, Add</i>	342.21	
23 21	13 23-0518	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,622.28	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	348.95	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0519	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,858.28	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	419.75	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0520	EA	10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,168.78	874.97
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	512.90	
			<i>For Concentric Reducers, Deduct</i>	-274.24	
			<i>For Work In Restricted Working Space, Add</i>	393.54	
23 21	13 23-0521	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer.....	1,916.82	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	424.65	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0522	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,192.51	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	507.36	
			<i>For Work In Restricted Working Space, Add</i>	429.70	
23 21	13 23-0523	EA	12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,658.53	955.30
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	647.17	
			<i>For Concentric Reducers, Deduct</i>	-392.39	
			<i>For Work In Restricted Working Space, Add</i>	429.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0524 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,909.00 422.31 -152.54 429.70	955.30
23 21 13 23-0525 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,524.67 581.61 502.26	1,116.65
23 21 13 23-0526 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,669.85 625.16 502.26	1,116.65
23 21 13 23-0527 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,117.31 1,059.40 502.26	1,116.65
23 21 13 23-0528 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,184.18 757.49 565.05	1,256.32
23 21 13 23-0529 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,611.59 885.71 565.05	1,256.32
23 21 13 23-0530 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,777.98 935.63 -606.24 565.05	1,256.32
23 21 13 23-0531 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,652.36 1,497.94 565.05	1,256.32
23 21 13 23-0532 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,585.06 1,777.75 565.05	1,256.32
23 21 13 23-0533 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,495.65 1,122.68 645.77	1,435.74
23 21 13 23-0534 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,572.70 545.79 -134.44 645.77	1,435.74
23 21 13 23-0535 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,720.24 1,190.05 -821.66 645.77	1,435.74
23 21 13 23-0536 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,051.39 1,289.40 645.77	1,435.74
23 21 13 23-0537 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,850.96 2,129.27 645.77	1,435.74
23 21 13 23-0538 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,373.20 1,356.78 -941.72 729.10	1,620.96
23 21 13 23-0539 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,365.59 1,354.49 -939.29 729.10	1,620.96
23 21 13 23-0540 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9,069.21 2,465.58 -2,124.44 729.10	1,620.96
23 21 13 23-0541 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,554.77 2,911.25 729.10	1,620.96
23 21 13 23-0542 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,783.18 3,579.77 729.10	1,620.96
23 21 13 23-0543 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,369.92 1,647.29 -1,234.75 753.40	1,675.10
23 21 13 23-0544 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,818.91 1,781.98 -1,378.43 753.40	1,675.10
23 21 13 23-0545 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,904.96 2,407.80 -2,045.96 753.40	1,675.10
23 21 13 23-0546 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,786.93 3,572.39 753.40	1,675.10
23 21 13 23-0547 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,697.70 4,445.62 753.40	1,675.10

23 21 13 23-0548 Welded Plain End Black Steel Concentric Reducers (23 21 13 23-0393)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0549	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.16 44.82 38.37	85.31
23 21	13 23-0550	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.60 47.25 42.10	93.61
23 21	13 23-0551	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.34 46.61 41.12	91.43
23 21	13 23-0552	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.69 50.19 46.63	103.68
23 21	13 23-0553	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.51 48.40 43.87	97.55
23 21	13 23-0554	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.24 47.76 42.89	95.37
23 21	13 23-0555	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.00 48.91 55.68	123.79
23 21	13 23-0556	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.10 47.76 53.91	119.85
23 21	13 23-0557	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.24 50.87 51.15	113.73
23 21	13 23-0558	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.47 62.35 70.82	157.47
23 21	13 23-0559	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.88 62.02 63.55	141.28
23 21	13 23-0560	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.36 67.89 61.78	137.34
23 21	13 23-0561	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.05 64.89 79.50	176.70
23 21	13 23-0562	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	312.31 65.87 79.50	176.70
23 21	13 23-0563	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.39 67.99 79.50	176.70
23 21	13 23-0564	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	516.85 106.72 138.09	306.96
23 21	13 23-0565	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0566	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	529.35 110.47 138.09	306.96
23 21	13 23-0567	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	868.15 181.74 224.88	499.93
23 21	13 23-0568	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	893.15 189.24 224.88	499.93
23 21	13 23-0569	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,296.21 269.09 342.21	760.84
23 21	13 23-0570	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,340.81 282.47 342.21	760.84
23 21	13 23-0571	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,613.59 346.34 393.54	874.97
23 21	13 23-0572	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,595.10 340.79 393.54	874.97
23 21	13 23-0573	EA	10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,827.83 410.61 393.54	874.97
23 21	13 23-0574	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,805.35 391.21 429.70	955.30
23 21	13 23-0575	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,861.23 407.98 429.70	955.30
23 21	13 23-0576	EA	12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,881.47 414.05 429.70	955.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0577 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,474.73 592.03 429.70	955.30
23 21 13 23-0578 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,235.38 494.82 502.26	1,116.65
23 21 13 23-0579 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,442.55 556.97 502.26	1,116.65
23 21 13 23-0580 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,622.54 610.97 502.26	1,116.65
23 21 13 23-0581 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,318.15 819.65 502.26	1,116.65
23 21 13 23-0582 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32
23 21 13 23-0583 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,865.53 661.89 565.05	1,256.32
23 21 13 23-0584 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,968.85 692.89 565.05	1,256.32
23 21 13 23-0585 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,311.96 795.82 565.05	1,256.32
23 21 13 23-0586 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,732.96 1,222.12 565.05	1,256.32
23 21 13 23-0587 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,225.42 741.61 645.77	1,435.74
23 21 13 23-0588 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,490.24 821.05 645.77	1,435.74
23 21 13 23-0589 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,601.16 854.33 645.77	1,435.74
23 21 13 23-0590 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,902.94 944.86 645.77	1,435.74
23 21 13 23-0591 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,371.00 1,985.28 645.77	1,435.74
23 21 13 23-0592 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0593 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,271.52 1,026.27 729.10	1,620.96
23 21 13 23-0594 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,347.11 1,048.95 729.10	1,620.96
23 21 13 23-0595 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,794.64 1,183.21 729.10	1,620.96
23 21 13 23-0596 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	5,573.30 1,416.81 729.10	1,620.96
23 21 13 23-0597 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,593.98 1,114.50 753.40	1,675.10
23 21 13 23-0598 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,641.27 1,128.69 753.40	1,675.10
23 21 13 23-0599 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,733.71 1,156.42 753.40	1,675.10
23 21 13 23-0600 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,873.99 1,798.51 753.40	1,675.10
23 21 13 23-0601 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,296.50 1,925.26 753.40	1,675.10
23 21 13 23-0602 Welded Plain End Black Steel Caps (23 21 13 23-0393)		
23 21 13 23-0603 EA 1" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	76.62 14.79 19.68	43.81
23 21 13 23-0604 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add For Work In Restricted Working Space, Add</i>	83.86 16.14 21.65	48.14

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0605 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap.....	87.17	49.85
For Schedule 80 Fittings, Add	16.80	
For Work In Restricted Working Space, Add	22.43	
23 21 13 23-0606 EA 2" Standard Weight, Welded Plain End Black Steel Cap.....	108.18	63.88
For Schedule 80 Fittings, Add	20.48	
For Work In Restricted Working Space, Add	28.73	
23 21 13 23-0607 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap.....	127.84	77.00
For Schedule 80 Fittings, Add	23.92	
For Work In Restricted Working Space, Add	34.63	
23 21 13 23-0608 EA 3" Standard Weight, Welded Plain End Black Steel Cap.....	151.10	88.81
For Schedule 80 Fittings, Add	28.68	
For Work In Restricted Working Space, Add	39.95	
23 21 13 23-0609 EA 4" Standard Weight, Welded Plain End Black Steel Cap.....	253.98	153.48
For Schedule 80 Fittings, Add	47.43	
For Work In Restricted Working Space, Add	69.04	
23 21 13 23-0610 EA 6" Standard Weight, Welded Plain End Black Steel Cap.....	425.51	253.57
For Schedule 80 Fittings, Add	80.12	
For Work In Restricted Working Space, Add	114.07	
23 21 13 23-0611 EA 8" Standard Weight, Welded Plain End Black Steel Cap.....	600.87	355.49
For Schedule 80 Fittings, Add	113.65	
For Work In Restricted Working Space, Add	159.88	
23 21 13 23-0612 EA 10" Standard Weight, Welded Plain End Black Steel Cap.....	791.93	448.76
For Schedule 80 Fittings, Add	153.49	
For Work In Restricted Working Space, Add	201.81	
23 21 13 23-0613 EA 12" Standard Weight, Welded Plain End Black Steel Cap.....	849.90	467.45
For Schedule 80 Fittings, Add	167.37	
For Work In Restricted Working Space, Add	210.25	
23 21 13 23-0614 EA 14" Standard Weight, Welded Plain End Black Steel Cap.....	1,117.31	558.32
For Schedule 80 Fittings, Add	230.55	
For Work In Restricted Working Space, Add	251.13	
23 21 13 23-0615 EA 16" Standard Weight, Welded Plain End Black Steel Cap.....	1,297.61	648.39
For Schedule 80 Fittings, Add	267.77	
For Work In Restricted Working Space, Add	291.64	
23 21 13 23-0616 EA 18" Standard Weight, Welded Plain End Black Steel Cap.....	1,450.63	717.93
For Schedule 80 Fittings, Add	300.65	
For Work In Restricted Working Space, Add	322.89	
23 21 13 23-0617 150 LB, Welded Plain End Black Steel Neck Flanges <small>(23 21 13 23-0393)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0618 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange.....	183.78	98.91
For 300 LB Rating, Add	40.41	
For Work In Restricted Working Space, Add	44.49	
23 21 13 23-0619 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange.....	220.53	123.44
For 300 LB Rating, Add	44.27	
For Work In Restricted Working Space, Add	55.51	
23 21 13 23-0620 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange.....	247.10	141.15
For 300 LB Rating, Add	47.09	
For Work In Restricted Working Space, Add	63.47	
23 21 13 23-0621 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange.....	324.37	186.14
For 300 LB Rating, Add	60.99	
For Work In Restricted Working Space, Add	83.73	
23 21 13 23-0622 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange.....	492.81	282.30
For 300 LB Rating, Add	93.19	
For Work In Restricted Working Space, Add	126.95	
23 21 13 23-0623 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange.....	516.31	271.68
For 300 LB Rating, Add	119.11	
For Work In Restricted Working Space, Add	122.17	
23 21 13 23-0624 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange.....	670.15	340.65
For 300 LB Rating, Add	165.19	
For Work In Restricted Working Space, Add	153.23	
23 21 13 23-0625 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange.....	811.91	386.55
For 300 LB Rating, Add	223.51	
For Work In Restricted Working Space, Add	173.86	
23 21 13 23-0626 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,053.60	467.45
For 300 LB Rating, Add	320.52	
For Work In Restricted Working Space, Add	210.25	
23 21 13 23-0627 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,365.61	543.26
For 300 LB Rating, Add	471.31	
For Work In Restricted Working Space, Add	244.34	
23 21 13 23-0628 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,678.33	609.09
For 300 LB Rating, Add	631.47	
For Work In Restricted Working Space, Add	273.96	
23 21 13 23-0629 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,128.14	773.10
For 300 LB Rating, Add	800.05	
For Work In Restricted Working Space, Add	347.72	
23 21 13 23-0630 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,406.40	837.54
For 300 LB Rating, Add	937.36	
For Work In Restricted Working Space, Add	376.70	
23 21 13 23-0631 150 LB, Welded Black Steel Slip-On Flanges <small>(23 21 13 23-0393)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0632 EA 2", 150 LB, Welded Black Steel Slip-On Flanges	135.05	98.91
For 300 LB Rating, Add	27.68	
For Work In Restricted Working Space, Add	35.42	
23 21 13 23-0633 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange	166.09	123.44
For 300 LB Rating, Add	34.77	
For Work In Restricted Working Space, Add	43.29	
23 21 13 23-0634 EA 3", 150 LB, Welded Black Steel Slip-On Flange	196.19	141.15
For 300 LB Rating, Add	41.00	
For Work In Restricted Working Space, Add	51.16	
23 21 13 23-0635 EA 4", 150 LB, Welded Black Steel Slip-On Flange	258.01	186.14
For 300 LB Rating, Add	54.92	
For Work In Restricted Working Space, Add	66.90	
23 21 13 23-0636 EA 6", 150 LB, Welded Black Steel Slip-On Flange	381.82	282.30
For 300 LB Rating, Add	82.92	
For Work In Restricted Working Space, Add	98.39	
23 21 13 23-0637 EA 8", 150 LB, Welded Black Steel Slip-On Flange	452.87	271.68
For 300 LB Rating, Add	112.71	
For Work In Restricted Working Space, Add	111.27	
23 21 13 23-0638 EA 10", 150 LB, Welded Black Steel Slip-On Flange	605.12	340.65
For 300 LB Rating, Add	176.02	
For Work In Restricted Working Space, Add	139.09	
23 21 13 23-0639 EA 12", 150 LB, Welded Black Steel Slip-On Flange	779.60	386.55
For 300 LB Rating, Add	259.34	
For Work In Restricted Working Space, Add	166.91	
23 21 13 23-0640 EA 14", 150 LB, Welded Black Steel Slip-On Flange	975.25	467.45
For 300 LB Rating, Add	361.71	
For Work In Restricted Working Space, Add	194.72	
23 21 13 23-0641 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,157.78	543.26
For 300 LB Rating, Add	470.69	
For Work In Restricted Working Space, Add	215.59	
23 21 13 23-0642 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,280.57	609.09
For 300 LB Rating, Add	525.92	
For Work In Restricted Working Space, Add	236.45	
23 21 13 23-0643 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,417.40	773.10
For 300 LB Rating, Add	593.78	
For Work In Restricted Working Space, Add	257.31	
23 21 13 23-0644 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,625.66	837.54
For 300 LB Rating, Add	670.64	
For Work In Restricted Working Space, Add	299.04	
23 21 13 23-0645 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)		
23 21 13 23-0646 EA 2", 150 LB, Forged Steel Blind Flange	90.48	35.22
For 300 LB Rating, Add	23.42	
For 600 LB Rating, Add	58.64	
For Work In Restricted Working Space, Add	21.14	
23 21 13 23-0647 EA 2-1/2", 150 LB, Forged Steel Blind Flange	117.01	42.27
For 300 LB Rating, Add	34.86	
For 600 LB Rating, Add	90.63	
For Work In Restricted Working Space, Add	25.36	
23 21 13 23-0648 EA 3", 150 LB, Forged Steel Blind Flange	146.31	56.36
For 300 LB Rating, Add	38.71	
For 600 LB Rating, Add	97.55	
For Work In Restricted Working Space, Add	33.81	
23 21 13 23-0649 EA 4", 150 LB, Forged Steel Blind Flange	187.19	70.45
For 300 LB Rating, Add	51.83	
For 600 LB Rating, Add	132.25	
For Work In Restricted Working Space, Add	42.27	
23 21 13 23-0650 EA 6", 150 LB, Forged Steel Blind Flange	253.32	91.58
For 300 LB Rating, Add	75.36	
For 600 LB Rating, Add	195.86	
For Work In Restricted Working Space, Add	54.95	
23 21 13 23-0651 EA 8", 150 LB, Forged Steel Blind Flange	322.64	105.67
For 300 LB Rating, Add	111.23	
For 600 LB Rating, Add	298.82	
For Work In Restricted Working Space, Add	63.40	
23 21 13 23-0652 EA 10", 150 LB, Forged Steel Blind Flange	470.94	126.80
For 300 LB Rating, Add	200.50	
For 600 LB Rating, Add	559.66	
For Work In Restricted Working Space, Add	76.08	
23 21 13 23-0653 EA 12", 150 LB, Forged Steel Blind Flange	603.48	147.93
For 300 LB Rating, Add	277.15	
For 600 LB Rating, Add	782.64	
For Work In Restricted Working Space, Add	88.76	
23 21 13 23-0654 EA 14", 150 LB, Forged Steel Blind Flange	971.49	169.07
For 300 LB Rating, Add	542.19	
For Work In Restricted Working Space, Add	101.44	
23 21 13 23-0655 EA 16", 150 LB, Forged Steel Blind Flange	1,048.00	190.20
For 300 LB Rating, Add	574.02	
For Work In Restricted Working Space, Add	114.12	
23 21 13 23-0656 EA 18", 150 LB, Forged Steel Blind Flange	1,190.04	232.46
For 300 LB Rating, Add	628.90	
For Work In Restricted Working Space, Add	139.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0657	EA	20", 150 LB, Forged Steel Blind Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,499.99 847.49 152.16	253.60
23 21	13 23-0658	EA	24", 150 LB, Forged Steel Blind Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,013.07 1,199.20 177.52	295.87
23 21	13 23-0659		3,000 LB, Forge Steel Thread-O-Lets <small>(23 21 13 23-0393)</small>		
23 21	13 23-0660	EA	1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.52 5.44 36.08 24.79	
23 21	13 23-0661	EA	3/4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.35 6.39 38.39 25.97	
23 21	13 23-0662	EA	1", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.15 7.16 41.05 27.55	
23 21	13 23-0663	EA	1-1/4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.69 10.16 46.12 29.51	
23 21	13 23-0664	EA	1-1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.81 10.16 51.10 33.45	
23 21	13 23-0665	EA	2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.16 12.70 66.31 43.73	
23 21	13 23-0666	EA	2-1/2", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.57 46.09 110.85 56.22	
23 21	13 23-0667	EA	3", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	355.08 46.36 139.57 78.71	
23 21	13 23-0668	EA	4", 3,000 LB, Forge Steel Thread-O-Let <i>For Weld-O-Lets, Add</i> <i>For Sock-O-Lets, Add</i> <i>For Work In Restricted Working Space, Add</i>	509.44 90.75 202.66 98.39	
23 21	13 23-0669		Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0670	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	13.88 3.89 5.55 9.72	
23 21	13 23-0671	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.64 4.94 7.06 12.35	
23 21	13 23-0672	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.83 4.99 7.13 12.48	
23 21	13 23-0673	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	17.91 5.01 7.16 12.54	
23 21	13 23-0674	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	40.15 11.24 16.06 28.11	
23 21	13 23-0675	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	57.34 16.06 22.94 40.14	
23 21	13 23-0676	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut. <i>For Zinc Plated, Add</i> <i>For Hot Dip Galvanized, Add</i> <i>For Advanced Fluoropolymer (Blue Coating), Add</i>	61.99 17.36 24.80 43.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0677 EA 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	67.91	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.01	
For Hot Dip Galvanized, Add	27.16	
For Advanced Fluoropolymer (Blue Coating), Add	47.54	
23 21 13 23-0678 EA 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	150.29	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	42.08	
For Hot Dip Galvanized, Add	60.12	
For Advanced Fluoropolymer (Blue Coating), Add	105.20	
23 21 13 23-0679 EA 12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	153.08	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	42.86	
For Hot Dip Galvanized, Add	61.23	
For Advanced Fluoropolymer (Blue Coating), Add	107.16	
23 21 13 23-0680 EA 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	171.68	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	48.07	
For Hot Dip Galvanized, Add	68.67	
For Advanced Fluoropolymer (Blue Coating), Add	120.18	
23 21 13 23-0681 EA 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	285.39	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	79.91	
For Hot Dip Galvanized, Add	114.16	
For Advanced Fluoropolymer (Blue Coating), Add	199.77	
23 21 13 23-0682 EA 18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	411.68	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	115.27	
For Hot Dip Galvanized, Add	164.67	
For Advanced Fluoropolymer (Blue Coating), Add	288.18	
23 21 13 23-0683 EA 20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	520.10	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	145.63	
For Hot Dip Galvanized, Add	208.04	
For Advanced Fluoropolymer (Blue Coating), Add	364.07	
23 21 13 23-0684 EA 24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	741.44	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	207.60	
For Hot Dip Galvanized, Add	296.58	
For Advanced Fluoropolymer (Blue Coating), Add	519.01	
23 21 13 23-0685 EA 30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,170.54	
Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	327.75	
For Hot Dip Galvanized, Add	468.22	
For Advanced Fluoropolymer (Blue Coating), Add	819.38	
23 21 13 23-0686 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,666.00	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	466.48	
For Hot Dip Galvanized, Add	666.40	
For Advanced Fluoropolymer (Blue Coating), Add	1,166.20	
23 21 13 23-0687 Class 300 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0688 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	22.13	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	6.20	
For Hot Dip Galvanized, Add	8.85	
For Advanced Fluoropolymer (Blue Coating), Add	15.49	
23 21 13 23-0689 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	40.80	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	11.42	
For Hot Dip Galvanized, Add	16.32	
For Advanced Fluoropolymer (Blue Coating), Add	28.56	
23 21 13 23-0690 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	63.63	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	17.82	
For Hot Dip Galvanized, Add	25.45	
For Advanced Fluoropolymer (Blue Coating), Add	44.54	
23 21 13 23-0691 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	69.14	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.36	
For Hot Dip Galvanized, Add	27.66	
For Advanced Fluoropolymer (Blue Coating), Add	48.40	
23 21 13 23-0692 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	70.57	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.76	
For Hot Dip Galvanized, Add	28.23	
For Advanced Fluoropolymer (Blue Coating), Add	49.40	
23 21 13 23-0693 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	75.70	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	21.20	
For Hot Dip Galvanized, Add	30.28	
For Advanced Fluoropolymer (Blue Coating), Add	52.99	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0694 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	109.18	
Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	30.57	
For Hot Dip Galvanized, Add	43.67	
For Advanced Fluoropolymer (Blue Coating), Add	76.43	
23 21 13 23-0695 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	169.43	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	47.44	
For Hot Dip Galvanized, Add	67.77	
For Advanced Fluoropolymer (Blue Coating), Add	118.60	
23 21 13 23-0696 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	310.29	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	86.88	
For Hot Dip Galvanized, Add	124.12	
For Advanced Fluoropolymer (Blue Coating), Add	217.20	
23 21 13 23-0697 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	447.81	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	125.39	
For Hot Dip Galvanized, Add	179.12	
For Advanced Fluoropolymer (Blue Coating), Add	313.47	
23 21 13 23-0698 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	612.91	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	171.61	
For Hot Dip Galvanized, Add	245.16	
For Advanced Fluoropolymer (Blue Coating), Add	429.04	
23 21 13 23-0699 EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	846.27	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	236.96	
For Hot Dip Galvanized, Add	338.51	
For Advanced Fluoropolymer (Blue Coating), Add	592.39	
23 21 13 23-0700 EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,086.77	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	304.30	
For Hot Dip Galvanized, Add	434.71	
For Advanced Fluoropolymer (Blue Coating), Add	760.74	
23 21 13 23-0701 EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,153.33	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	322.93	
For Hot Dip Galvanized, Add	461.33	
For Advanced Fluoropolymer (Blue Coating), Add	807.33	
23 21 13 23-0702 EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,462.00	
Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	409.36	
For Hot Dip Galvanized, Add	584.80	
For Advanced Fluoropolymer (Blue Coating), Add	1,023.40	
23 21 13 23-0703 EA 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,295.69	
Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	642.79	
For Hot Dip Galvanized, Add	918.28	
For Advanced Fluoropolymer (Blue Coating), Add	1,606.98	
23 21 13 23-0704 EA 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	3,482.97	
Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
For Zinc Plated, Add	975.23	
For Hot Dip Galvanized, Add	1,393.19	
For Advanced Fluoropolymer (Blue Coating), Add	2,438.08	
23 21 13 23-0705 Class 150 Flange, Stainless Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0706 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	13.88	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21 13 23-0707 EA 2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.31	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0708 EA 2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	41.39	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0709 EA 3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	41.47	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0710 EA 4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	87.50	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0711 EA 5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	111.05	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0712 EA 6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	125.31	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0713 EA 8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	126.11	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0714 EA 10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	324.91	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0715 EA 12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	326.43	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0716 EA 14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	493.77	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21 13 23-0717 EA 16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	657.71	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21 13 23-0718 EA 18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set	1,707.40	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0719 EA 20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	1,978.35	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0720 EA 24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,284.27	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21 13 23-0721 150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21 13 23-0722 EA 1/2", 150 LB, Rubber Flange Gasket Replacement.....	39.24	
For 300 LB Rating Gasket Set, Add	0.11	
For 150 LB Rating Teflon Gasket Set, Add	2.47	
For 300 LB Rating Teflon Gasket Set, Add	2.85	
For Work In Restricted Working Space, Add	11.68	
23 21 13 23-0723 EA 3/4", 150 LB, Rubber Flange Gasket Replacement.....	41.95	
For 300 LB Rating Gasket Set, Add	0.15	
For 150 LB Rating Teflon Gasket Set, Add	3.32	
For 300 LB Rating Teflon Gasket Set, Add	3.83	
For Work In Restricted Working Space, Add	12.46	
23 21 13 23-0724 EA 1", 150 LB, Rubber Flange Gasket Replacement.....	46.15	
For 300 LB Rating Gasket Set, Add	0.26	
For 150 LB Rating Teflon Gasket Set, Add	5.80	
For 300 LB Rating Teflon Gasket Set, Add	6.68	
For Work In Restricted Working Space, Add	13.62	
23 21 13 23-0725 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement.....	50.16	
For 300 LB Rating Gasket Set, Add	0.30	
For 150 LB Rating Teflon Gasket Set, Add	6.65	
For 300 LB Rating Teflon Gasket Set, Add	7.65	
For Work In Restricted Working Space, Add	14.79	
23 21 13 23-0726 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement.....	55.57	
For 300 LB Rating Gasket Set, Add	0.38	
For 150 LB Rating Teflon Gasket Set, Add	8.35	
For 300 LB Rating Teflon Gasket Set, Add	9.61	
For Work In Restricted Working Space, Add	16.35	
23 21 13 23-0727 EA 2", 150 LB, Rubber Flange Gasket Replacement.....	61.19	
For 300 LB Rating Gasket Set, Add	0.53	
For 150 LB Rating Teflon Gasket Set, Add	11.67	
For 300 LB Rating Teflon Gasket Set, Add	13.44	
For Work In Restricted Working Space, Add	17.90	
23 21 13 23-0728 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement.....	72.10	
For 300 LB Rating Gasket Set, Add	0.72	
For 150 LB Rating Teflon Gasket Set, Add	15.85	
For 300 LB Rating Teflon Gasket Set, Add	18.25	
For Work In Restricted Working Space, Add	21.02	
23 21 13 23-0729 EA 3", 150 LB, Rubber Flange Gasket Replacement.....	76.32	
For 300 LB Rating Gasket Set, Add	0.83	
For 150 LB Rating Teflon Gasket Set, Add	18.32	
For 300 LB Rating Teflon Gasket Set, Add	21.09	
For Work In Restricted Working Space, Add	22.19	
23 21 13 23-0730 EA 4", 150 LB, Rubber Flange Gasket Replacement.....	101.18	
For 300 LB Rating Gasket Set, Add	1.36	
For 150 LB Rating Teflon Gasket Set, Add	29.99	
For 300 LB Rating Teflon Gasket Set, Add	34.53	
For Work In Restricted Working Space, Add	29.19	
23 21 13 23-0731 EA 5", 150 LB, Rubber Flange Gasket Replacement.....	117.18	
For 300 LB Rating Gasket Set, Add	1.51	
For 150 LB Rating Teflon Gasket Set, Add	33.32	
For 300 LB Rating Teflon Gasket Set, Add	38.36	
For Work In Restricted Working Space, Add	33.86	
23 21 13 23-0732 EA 6", 150 LB, Rubber Flange Gasket Replacement.....	134.04	
For 300 LB Rating Gasket Set, Add	1.96	
For 150 LB Rating Teflon Gasket Set, Add	43.29	
For 300 LB Rating Teflon Gasket Set, Add	49.84	
For Work In Restricted Working Space, Add	38.53	
23 21 13 23-0733 EA 8", 150 LB, Rubber Flange Gasket Replacement.....	163.88	
For 300 LB Rating Gasket Set, Add	2.87	
For 150 LB Rating Teflon Gasket Set, Add	63.31	
For 300 LB Rating Teflon Gasket Set, Add	72.89	
For Work In Restricted Working Space, Add	46.71	
23 21 13 23-0734 EA 10", 150 LB, Rubber Flange Gasket Replacement.....	177.70	
For 300 LB Rating Gasket Set, Add	4.07	
For 150 LB Rating Teflon Gasket Set, Add	89.98	
For 300 LB Rating Teflon Gasket Set, Add	103.60	
For Work In Restricted Working Space, Add	49.82	
23 21 13 23-0735 EA 12", 150 LB, Rubber Flange Gasket Replacement.....	202.99	
For 300 LB Rating Gasket Set, Add	5.20	
For 150 LB Rating Teflon Gasket Set, Add	114.95	
For 300 LB Rating Teflon Gasket Set, Add	132.34	
For Work In Restricted Working Space, Add	56.44	
23 21 13 23-0736 EA 14", 150 LB, Rubber Flange Gasket Replacement.....	212.39	
For 300 LB Rating Gasket Set, Add	6.22	
For 150 LB Rating Teflon Gasket Set, Add	137.44	
For 300 LB Rating Teflon Gasket Set, Add	158.24	
For Work In Restricted Working Space, Add	58.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0737 EA 16", 150 LB, Rubber Flange Gasket Replacement	279.30	
For 300 LB Rating Gasket Set, Add	6.94	
For 150 LB Rating Teflon Gasket Set, Add	153.29	
For 300 LB Rating Teflon Gasket Set, Add	176.49	
For Work In Restricted Working Space, Add	77.84	
23 21 13 23-0738 EA 18", 150 LB, Rubber Flange Gasket Replacement	304.80	
For 300 LB Rating Gasket Set, Add	7.24	
For 150 LB Rating Teflon Gasket Set, Add	159.93	
For 300 LB Rating Teflon Gasket Set, Add	184.14	
For Work In Restricted Working Space, Add	85.23	
23 21 13 23-0739 EA 20", 150 LB, Rubber Flange Gasket Replacement	368.56	
For 300 LB Rating Gasket Set, Add	7.77	
For 150 LB Rating Teflon Gasket Set, Add	171.61	
For 300 LB Rating Teflon Gasket Set, Add	197.58	
For Work In Restricted Working Space, Add	103.91	
23 21 13 23-0740 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0741 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	28.17	
For Work In Restricted Working Space, Add	8.45	
23 21 13 23-0742 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	30.42	
For Work In Restricted Working Space, Add	9.13	
23 21 13 23-0743 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	34.22	
For Work In Restricted Working Space, Add	10.27	
23 21 13 23-0744 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	35.91	
For Work In Restricted Working Space, Add	10.77	
23 21 13 23-0745 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	38.02	
For Work In Restricted Working Space, Add	11.41	
23 21 13 23-0746 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	40.84	
For Work In Restricted Working Space, Add	12.25	
23 21 13 23-0747 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	43.67	
For Work In Restricted Working Space, Add	13.10	
23 21 13 23-0748 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	47.89	
For Work In Restricted Working Space, Add	14.37	
23 21 13 23-0749 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	52.11	
For Work In Restricted Working Space, Add	15.63	
23 21 13 23-0750 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	56.34	
For Work In Restricted Working Space, Add	16.90	
23 21 13 23-0751 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	60.56	
For Work In Restricted Working Space, Add	18.17	
23 21 13 23-0752 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	66.20	
For Work In Restricted Working Space, Add	19.86	
23 21 13 23-0753 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	71.83	
For Work In Restricted Working Space, Add	21.55	
23 21 13 23-0754 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	77.47	
For Work In Restricted Working Space, Add	23.24	
23 21 13 23-0755 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	83.10	
For Work In Restricted Working Space, Add	24.93	
23 21 13 23-0756 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	87.32	
For Work In Restricted Working Space, Add	26.20	
23 21 13 23-0757 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	91.54	
For Work In Restricted Working Space, Add	27.46	
23 21 13 23-0758 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	97.18	
For Work In Restricted Working Space, Add	29.15	
23 21 13 23-0759 Welded Plain End Electric Resistance Black Steel Pipe (23 21 13 23-0393)		
Note: ASTM A-135.		
23 21 13 23-0760 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	28.55	14.43
For Work In Restricted Working Space, Add	7.08	
23 21 13 23-0761 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	31.20	15.74
For Work In Restricted Working Space, Add	7.08	
23 21 13 23-0762 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	32.50	15.48
For Work In Restricted Working Space, Add	6.95	
23 21 13 23-0763 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	40.79	19.67
For Work In Restricted Working Space, Add	8.85	
23 21 13 23-0764 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	65.53	29.12
For Work In Restricted Working Space, Add	13.09	
23 21 13 23-0765 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	78.42	31.64
For Work In Restricted Working Space, Add	14.26	
23 21 13 23-0766 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	105.01	39.41
For Work In Restricted Working Space, Add	17.74	
23 21 13 23-0767 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	127.37	47.53
For Work In Restricted Working Space, Add	21.37	
23 21 13 23-0768 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	162.90	61.67
For Work In Restricted Working Space, Add	27.74	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0769				Flanged Steel Fittings <small>(23 21 13 23)</small> See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0617 for welded neck flange ends.		
23 21 13 23-0770				Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0769)</small> Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for Class 150 steel bolt and gasket set.		
23 21 13 23-0771				Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0772	EA			2" Standard Weight, Flanged Steel, 90 Degree Elbow 480.03		60.55
				<i>For Galvanized Fittings, Add</i> 311.40		
				<i>For Extra Heavy Weight Fittings, Add</i> 467.10		
23 21 13 23-0773	EA			2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow 535.39		67.44
				<i>For Galvanized Fittings, Add</i> 347.39		
				<i>For Extra Heavy Weight Fittings, Add</i> 521.09		
23 21 13 23-0774	EA			3" Standard Weight, Flanged Steel, 90 Degree Elbow 534.02		74.44
				<i>For Galvanized Fittings, Add</i> 338.00		
				<i>For Extra Heavy Weight Fittings, Add</i> 507.00		
23 21 13 23-0775	EA			4" Standard Weight, Flanged Steel, 90 Degree Elbow 675.40		86.49
				<i>For Galvanized Fittings, Add</i> 436.58		
				<i>For Extra Heavy Weight Fittings, Add</i> 654.88		
23 21 13 23-0776	EA			5" Standard Weight, Flanged Steel, 90 Degree Elbow 937.42		96.86
				<i>For Galvanized Fittings, Add</i> 633.75		
				<i>For Extra Heavy Weight Fittings, Add</i> 950.63		
23 21 13 23-0777	EA			6" Standard Weight, Flanged Steel, 90 Degree Elbow 994.01		112.43
				<i>For Galvanized Fittings, Add</i> 660.35		
				<i>For Extra Heavy Weight Fittings, Add</i> 990.53		
23 21 13 23-0778	EA			8" Standard Weight, Flanged Steel, 90 Degree Elbow 1,256.08		124.49
				<i>For Galvanized Fittings, Add</i> 855.48		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,283.22		
23 21 13 23-0779				Flanged Steel, Reducing 90 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0780	EA			2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 882.28		64.06
				<i>For Galvanized Fittings, Add</i> 629.06		
				<i>For Extra Heavy Weight Fittings, Add</i> 943.58		
23 21 13 23-0781	EA			3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 920.04		70.94
				<i>For Galvanized Fittings, Add</i> 650.97		
				<i>For Extra Heavy Weight Fittings, Add</i> 976.45		
23 21 13 23-0782	EA			4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,143.60		80.39
				<i>For Galvanized Fittings, Add</i> 818.40		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,227.60		
23 21 13 23-0783	EA			5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,411.53		85.59
				<i>For Galvanized Fittings, Add</i> 1,026.53		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,539.79		
23 21 13 23-0784	EA			6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 1,608.33		99.46
				<i>For Galvanized Fittings, Add</i> 1,167.36		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,751.04		
23 21 13 23-0785	EA			8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow 2,237.36		118.52
				<i>For Galvanized Fittings, Add</i> 1,647.76		
				<i>For Extra Heavy Weight Fittings, Add</i> 2,471.64		
23 21 13 23-0786				Flanged Steel, 45 Degree Elbows <small>(23 21 13 23-0770)</small>		
23 21 13 23-0787	EA			2" Standard Weight, Flanged Steel, 45 Degree Elbow 620.86		60.55
				<i>For Galvanized Fittings, Add</i> 424.06		
				<i>For Extra Heavy Weight Fittings, Add</i> 636.10		
23 21 13 23-0788	EA			2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow 648.84		67.44
				<i>For Galvanized Fittings, Add</i> 438.15		
				<i>For Extra Heavy Weight Fittings, Add</i> 657.23		
23 21 13 23-0789	EA			3" Standard Weight, Flanged Steel, 45 Degree Elbow 674.86		74.44
				<i>For Galvanized Fittings, Add</i> 450.67		
				<i>For Extra Heavy Weight Fittings, Add</i> 676.01		
23 21 13 23-0790	EA			4" Standard Weight, Flanged Steel, 45 Degree Elbow 839.71		86.49
				<i>For Galvanized Fittings, Add</i> 568.03		
				<i>For Extra Heavy Weight Fittings, Add</i> 852.05		
23 21 13 23-0791	EA			5" Standard Weight, Flanged Steel, 45 Degree Elbow 1,203.44		96.86
				<i>For Galvanized Fittings, Add</i> 846.57		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,269.85		
23 21 13 23-0792	EA			6" Standard Weight, Flanged Steel, 45 Degree Elbow 1,177.88		112.43
				<i>For Galvanized Fittings, Add</i> 807.45		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,211.17		
23 21 13 23-0793	EA			8" Standard Weight, Flanged Steel, 45 Degree Elbow 1,387.02		124.49
				<i>For Galvanized Fittings, Add</i> 960.23		
				<i>For Extra Heavy Weight Fittings, Add</i> 1,440.35		
23 21 13 23-0794				Flanged Steel, Tees <small>(23 21 13 23-0770)</small>		
23 21 13 23-0795	EA			2" Standard Weight, Flanged Steel, Tee 619.30		90.78
				<i>For Galvanized Fittings, Add</i> 386.51		
				<i>For Extra Heavy Weight Fittings, Add</i> 579.77		
23 21 13 23-0796	EA			2-1/2" Standard Weight, Flanged Steel, Tee 795.24		101.15
				<i>For Galvanized Fittings, Add</i> 514.82		
				<i>For Extra Heavy Weight Fittings, Add</i> 772.24		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0797 EA 3" Standard Weight, Flanged Steel, Tee.....	730.63	111.52
For Galvanized Fittings, Add	450.68	
For Extra Heavy Weight Fittings, Add	676.02	
23 21 13 23-0798 EA 4" Standard Weight, Flanged Steel, Tee.....	1,035.58	129.80
For Galvanized Fittings, Add	672.86	
For Extra Heavy Weight Fittings, Add	1,009.28	
23 21 13 23-0799 EA 5" Standard Weight, Flanged Steel, Tee.....	1,525.20	145.36
For Galvanized Fittings, Add	1,045.88	
For Extra Heavy Weight Fittings, Add	1,568.82	
23 21 13 23-0800 EA 6" Standard Weight, Flanged Steel, Tee.....	1,859.02	168.71
For Galvanized Fittings, Add	1,284.93	
For Extra Heavy Weight Fittings, Add	1,927.39	
23 21 13 23-0801 EA 8" Standard Weight, Flanged Steel, Tee.....	2,060.75	195.42
For Galvanized Fittings, Add	1,414.15	
For Extra Heavy Weight Fittings, Add	2,121.23	
23 21 13 23-0802 Flanged Steel, Reducing Tees (23 21 13 23-0770)		
23 21 13 23-0803 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee.....	966.11	97.78
For Galvanized Fittings, Add	655.66	
For Extra Heavy Weight Fittings, Add	983.50	
23 21 13 23-0804 EA 3" Standard Weight, Flanged Steel, Reducing Tee.....	1,114.69	108.15
For Galvanized Fittings, Add	762.07	
For Extra Heavy Weight Fittings, Add	1,143.11	
23 21 13 23-0805 EA 4" Standard Weight, Flanged Steel, Reducing Tee.....	1,900.75	123.71
For Galvanized Fittings, Add	1,372.26	
For Extra Heavy Weight Fittings, Add	2,058.38	
23 21 13 23-0806 EA 5" Standard Weight, Flanged Steel, Reducing Tee.....	2,056.33	140.18
For Galvanized Fittings, Add	1,477.01	
For Extra Heavy Weight Fittings, Add	2,215.51	
23 21 13 23-0807 EA 6" Standard Weight, Flanged Steel, Reducing Tee.....	2,580.66	160.93
For Galvanized Fittings, Add	1,871.58	
For Extra Heavy Weight Fittings, Add	2,807.36	
23 21 13 23-0808 EA 8" Standard Weight, Flanged Steel, Reducing Tee.....	3,216.79	180.77
For Galvanized Fittings, Add	2,356.62	
For Extra Heavy Weight Fittings, Add	3,534.94	
23 21 13 23-0809 Flanged Steel, Concentric Reducers (23 21 13 23-0770)		
23 21 13 23-0810 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer.....	908.30	70.94
For Galvanized Fittings, Add	641.58	
For Extra Heavy Weight Fittings, Add	962.36	
23 21 13 23-0811 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer.....	1,032.11	80.39
For Galvanized Fittings, Add	729.21	
For Extra Heavy Weight Fittings, Add	1,093.81	
23 21 13 23-0812 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....	1,524.29	91.68
For Galvanized Fittings, Add	1,109.46	
For Extra Heavy Weight Fittings, Add	1,664.20	
23 21 13 23-0813 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer.....	1,680.70	99.46
For Galvanized Fittings, Add	1,225.26	
For Extra Heavy Weight Fittings, Add	1,837.88	
23 21 13 23-0814 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer.....	1,969.38	118.52
For Galvanized Fittings, Add	1,433.38	
For Extra Heavy Weight Fittings, Add	2,150.06	
23 21 13 23-0815 Flanged Steel, Eccentric Reducers (23 21 13 23-0770)		
23 21 13 23-0816 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer.....	982.82	80.39
For Galvanized Fittings, Add	689.78	
For Extra Heavy Weight Fittings, Add	1,034.66	
23 21 13 23-0817 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer.....	1,331.42	91.68
For Galvanized Fittings, Add	955.17	
For Extra Heavy Weight Fittings, Add	1,432.75	
23 21 13 23-0818 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0819 Plain End Piping System Couplings (23 21 13 23-0818)		
23 21 13 23-0820 Plainlock Plain End Piping System Couplings (23 21 13 23-0819)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0821 EA 1" Plainlock Plain End Piping System Coupling.....	180.30	7.78
For Galvanized Fittings, Add	33.72	
23 21 13 23-0822 EA 1-1/2" Plainlock Plain End Piping System Coupling.....	184.83	10.76
For Galvanized Fittings, Add	33.72	
23 21 13 23-0823 EA 2" Plainlock Plain End Piping System Coupling.....	190.09	14.27
For Galvanized Fittings, Add	33.72	
23 21 13 23-0824 EA 2-1/2" Plainlock Plain End Piping System Coupling.....	194.57	17.24
For Galvanized Fittings, Add	33.72	
23 21 13 23-0825 EA 3" Plainlock Plain End Piping System Coupling.....	230.13	20.74
For Galvanized Fittings, Add	39.80	
23 21 13 23-0826 EA 4" Plainlock Plain End Piping System Coupling.....	317.23	27.62
For Galvanized Fittings, Add	55.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0827 EA 6" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	533.02 93.12	45.00
23 21 13 23-0828 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0819) Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0829 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	217.58 50.34	10.76
23 21 13 23-0830 EA 2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	222.84 50.34	14.27
23 21 13 23-0831 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	227.33 50.34	17.37
23 21 13 23-0832 EA 3" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	329.41 74.58	20.74
23 21 13 23-0833 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	381.55 86.30	24.25
23 21 13 23-0834 EA 4" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	386.69 86.30	27.62
23 21 13 23-0835 EA 5" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	545.09 123.30	34.62
23 21 13 23-0836 EA 6" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	669.80 150.59	45.00
23 21 13 23-0837 EA 8" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,148.55 267.02	53.68
23 21 13 23-0838 EA 10" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,484.90 347.39	63.54
23 21 13 23-0839 EA 12" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,856.43 435.90	75.21
23 21 13 23-0840 EA 14" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	2,600.62 618.98	83.12
23 21 13 23-0841 EA 16" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	3,531.54 847.65	94.02
23 21 13 23-0842 Plain End Piping System Fittings (23 21 13 23-0818) Note: Cast ductile iron bodies.		
23 21 13 23-0843 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0844 EA 1" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0845 EA 1-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0846 EA 2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0847 EA 2-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0848 EA 3" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0849 EA 4" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0850 EA 5" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0851 EA 6" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	902.51 153.49	90.12
23 21 13 23-0852 EA 8" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,781.36 324.17	106.98
23 21 13 23-0853 EA 10" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,224.58 407.44	125.00
23 21 13 23-0854 EA 12" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	2,818.94 518.76	150.16
23 21 13 23-0855 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0842)		
23 21 13 23-0856 EA 1" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	180.37 31.84	14.14
23 21 13 23-0857 EA 1-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	191.27 31.84	21.40
23 21 13 23-0858 EA 2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	201.56 31.84	28.27
23 21 13 23-0859 EA 2-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	210.80 31.84	34.50
23 21 13 23-0860 EA 3" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	253.78 38.24	41.75
23 21 13 23-0861 EA 4" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	361.31 55.76	54.98
23 21 13 23-0862 EA 5" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,068.36 193.02	68.85
23 21 13 23-0863 EA 6" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	905.46 154.08	90.12
23 21 13 23-0864 EA 8" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,051.10 178.12	106.98
23 21 13 23-0865 EA 10" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	1,430.30 248.58	125.00

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0866	EA	12" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,830.81 321.13	150.16
23 21	13 23-0867		Plain End Piping System, Tees <small>(23 21 13 23-0842)</small>		
23 21	13 23-0868	EA	1" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	246.45 42.87	21.40
23 21	13 23-0869	EA	1-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	262.53 42.87	32.16
23 21	13 23-0870	EA	2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	276.71 42.87	41.63
23 21	13 23-0871	EA	2-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	290.82 42.87	50.97
23 21	13 23-0872	EA	3" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	402.45 61.70	62.64
23 21	13 23-0873	EA	4" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	550.43 85.80	81.05
23 21	13 23-0874	EA	5" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,101.32 188.48	105.95
23 21	13 23-0875	EA	6" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,361.99 232.62	132.66
23 21	13 23-0876	EA	8" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,853.51 322.31	161.32
23 21	13 23-0877	EA	10" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	2,742.94 492.21	188.03
23 21	13 23-0878	EA	12" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	3,666.91 665.84	225.25
23 21	13 23-0879		Plain End Piping System, Reducing Tees <small>(23 21 13 23-0842)</small>		
23 21	13 23-0880	EA	1-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	475.37 84.74	34.50
23 21	13 23-0881	EA	2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	486.04 84.74	41.63
23 21	13 23-0882	EA	2-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	500.15 84.74	50.97
23 21	13 23-0883	EA	3" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	517.66 84.74	62.64
23 21	13 23-0884	EA	4" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	746.93 125.10	81.05
23 21	13 23-0885	EA	6" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,261.08 212.44	132.66
23 21	13 23-0886	EA	8" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,640.78 279.77	161.32
23 21	13 23-0887	EA	10" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	2,438.45 431.31	188.03
23 21	13 23-0888	EA	12" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	3,579.78 648.42	225.25
23 21	13 23-0889		Plain End Piping System, Wyes <small>(23 21 13 23-0842)</small>		
23 21	13 23-0890	EA	2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	690.22 125.57	41.63
23 21	13 23-0891	EA	2-1/2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	704.33 125.57	50.97
23 21	13 23-0892	EA	3" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	799.73 141.15	62.64
23 21	13 23-0893	EA	4" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,169.00 209.52	81.05
23 21	13 23-0894	EA	5" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,433.69 254.95	105.95
23 21	13 23-0895	EA	6" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,954.30 351.08	132.66
23 21	13 23-0896	EA	8" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	2,515.32 454.68	161.32
23 21	13 23-0897	EA	10" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	3,634.29 670.48	188.03
23 21	13 23-0898	EA	12" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	5,505.67 1,033.60	225.25
23 21	13 23-0899		Plain End Piping System, Laterals <small>(23 21 13 23-0842)</small>		
23 21	13 23-0900	EA	2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	734.63 134.46	41.63
23 21	13 23-0901	EA	2-1/2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	748.74 134.46	50.97
23 21	13 23-0902	EA	3" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	843.84 149.97	62.64
23 21	13 23-0903	EA	4" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,253.24 226.36	81.05
23 21	13 23-0904	EA	5" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,634.33 295.08	105.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0905 EA 6" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	2,083.39 376.90	132.66
23 21 13 23-0906 EA 8" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	2,989.46 549.50	161.32
23 21 13 23-0907 EA 10" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	4,160.37 775.69	188.03
23 21 13 23-0908 EA 12" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	5,583.86 1,049.23	225.25
23 21 13 23-0909 Plain End Piping System, Crosses (23 21 13 23-0842)		
23 21 13 23-0910 EA 2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	823.38 91.25	62.38
23 21 13 23-0911 EA 2-1/2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	844.51 91.25	76.38
23 21 13 23-0912 EA 3" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	987.60 105.83	94.02
23 21 13 23-0913 EA 4" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,345.23 145.39	121.50
23 21 13 23-0914 EA 5" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,890.37 206.50	158.99
23 21 13 23-0915 EA 6" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	2,478.74 272.67	198.40
23 21 13 23-0916 EA 8" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	3,158.63 349.80	240.29
23 21 13 23-0917 EA 10" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	4,504.10 510.39	280.88
23 21 13 23-0918 EA 12" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	6,394.02 735.93	337.93
23 21 13 23-0919 Plain End Piping System, Adapter Nipples (23 21 13 23-0842)		
Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0920 EA 1" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	37.30 6.41	7.78
23 21 13 23-0921 EA 1-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	42.54 6.58	10.76
23 21 13 23-0922 EA 2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	47.66 6.58	14.27
23 21 13 23-0923 EA 2-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	56.79 7.71	17.24
23 21 13 23-0924 EA 3" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	69.24 9.53	20.74
23 21 13 23-0925 EA 4" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	105.25 15.94	27.62
23 21 13 23-0926 EA 6" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	224.28 43.10	34.62
23 21 13 23-0927 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0842)		
23 21 13 23-0928 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	114.01 21.53	18.54
23 21 13 23-0929 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	119.21 21.53	22.04
23 21 13 23-0930 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	124.45 21.53	25.54
23 21 13 23-0931 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	123.18 21.53	24.77
23 21 13 23-0932 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	128.28 21.53	28.14
23 21 13 23-0933 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	133.45 21.53	31.51
23 21 13 23-0934 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	147.62 26.23	28.53
23 21 13 23-0935 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	152.22 26.23	31.51
23 21 13 23-0936 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	133.23 20.17	35.01
23 21 13 23-0937 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	143.27 20.17	41.75
23 21 13 23-0938 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	163.87 24.12	45.00
23 21 13 23-0939 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	200.66 36.88	35.40
23 21 13 23-0940 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	205.20 36.88	38.51
23 21 13 23-0941 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	174.65 27.93	42.01
23 21 13 23-0942 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	179.10 27.93	45.00
23 21 13 23-0943 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	184.39 27.93	48.50
23 21 13 23-0944 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	189.45 27.93	51.87

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0945 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	484.11	48.88
For Galvanized Fittings, Add	102.69	
23 21 13 23-0946 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	399.96	55.24
For Galvanized Fittings, Add	79.26	
23 21 13 23-0947 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	354.32	62.38
For Galvanized Fittings, Add	65.23	
23 21 13 23-0948 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	861.75	52.78
For Galvanized Fittings, Add	195.67	
23 21 13 23-0949 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	866.23	55.76
For Galvanized Fittings, Add	195.67	
23 21 13 23-0950 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	667.71	59.26
For Galvanized Fittings, Add	144.73	
23 21 13 23-0951 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	672.32	62.38
For Galvanized Fittings, Add	144.73	
23 21 13 23-0952 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	473.70	65.75
For Galvanized Fittings, Add	93.79	
23 21 13 23-0953 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	478.41	68.85
For Galvanized Fittings, Add	93.79	
23 21 13 23-0954 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	393.31	72.62
For Galvanized Fittings, Add	71.13	
23 21 13 23-0955 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	445.42	79.49
For Galvanized Fittings, Add	81.56	
23 21 13 23-0956 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	563.86	74.31
For Galvanized Fittings, Add	113.12	
23 21 13 23-0957 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	574.33	81.31
For Galvanized Fittings, Add	113.12	
23 21 13 23-0958 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	647.06	88.31
For Galvanized Fittings, Add	128.68	
23 21 13 23-0959 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....	725.00	98.68
For Galvanized Fittings, Add	144.24	
23 21 13 23-0960 Plain End Piping System, Bull Plugs (23 21 13 23-0842)		
23 21 13 23-0961 EA 1" Plain End Piping System, Bull Plug.....	357.77	7.78
For Galvanized Fittings, Add	103.83	
23 21 13 23-0962 EA 1-1/2" Plain End Piping System, Bull Plug.....	362.31	10.76
For Galvanized Fittings, Add	103.83	
23 21 13 23-0963 EA 2" Plain End Piping System, Bull Plug.....	367.43	14.27
For Galvanized Fittings, Add	103.83	
23 21 13 23-0964 EA 2-1/2" Plain End Piping System, Bull Plug.....	372.03	17.24
For Galvanized Fittings, Add	103.83	
23 21 13 23-0965 EA 3" Plain End Piping System, Bull Plug.....	538.46	20.74
For Galvanized Fittings, Add	152.20	
23 21 13 23-0966 EA 4" Plain End Piping System, Bull Plug.....	696.80	27.62
For Galvanized Fittings, Add	196.59	
23 21 13 23-0967 EA 5" Plain End Piping System, Bull Plug.....	1,209.94	34.62
For Galvanized Fittings, Add	347.42	
23 21 13 23-0968 EA 6" Plain End Piping System, Bull Plug.....	1,612.02	45.00
For Galvanized Fittings, Add	463.38	
23 21 13 23-0969 EA 8" Plain End Piping System, Bull Plug.....	2,984.28	53.55
For Galvanized Fittings, Add	871.17	
23 21 13 23-0970 EA 10" Plain End Piping System, Bull Plug.....	5,365.52	62.64
For Galvanized Fittings, Add	1,581.47	
23 21 13 23-0971 EA 12" Plain End Piping System, Bull Plug.....	8,219.49	75.21
For Galvanized Fittings, Add	2,432.01	
23 21 13 23-0972 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-0973 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-0974 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0975 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	45.55	25.67
23 21 13 23-0976 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	51.15	28.66
23 21 13 23-0977 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.05	32.03
23 21 13 23-0978 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	82.37	36.31
23 21 13 23-0979 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	93.89	40.85
23 21 13 23-0980 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.73	52.00
23 21 13 23-0981 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	236.68	76.89
23 21 13 23-0982 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	332.89	101.15
23 21 13 23-0983 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	534.30	99.72
23 21 13 23-0984 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0973)		
23 21 13 23-0985 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	48.69	25.67
23 21 13 23-0986 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	55.91	28.66
23 21 13 23-0987 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	64.51	32.03
23 21 13 23-0988 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	84.22	36.31
23 21 13 23-0989 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	98.32	40.85
23 21 13 23-0990 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	125.64	52.00
23 21 13 23-0991 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	263.80	76.89
23 21 13 23-0992 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	355.84	101.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0993 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	524.37	99.72
23 21 13 23-0994 Straight Tees, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-0995 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	56.13	32.03
23 21 13 23-0996 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	67.11	36.96
23 21 13 23-0997 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	86.18	43.70
23 21 13 23-0998 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	111.62	52.00
23 21 13 23-0999 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	134.80	61.98
23 21 13 23-1000 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	175.99	76.89
23 21 13 23-1001 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	297.87	101.15
23 21 13 23-1002 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	399.64	120.08
23 21 13 23-1003 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	704.55	125.89
23 21 13 23-1004 Reducing Tees, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1005 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	56.99	32.03
23 21 13 23-1006 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	68.00	36.96
23 21 13 23-1007 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	87.25	43.70
23 21 13 23-1008 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	114.14	52.00
23 21 13 23-1009 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	137.76	61.98
23 21 13 23-1010 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	180.53	76.89
23 21 13 23-1011 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	308.65	101.15
23 21 13 23-1012 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	415.16	120.08
23 21 13 23-1013 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	649.30	125.89
23 21 13 23-1014 Straight Couplings, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1015 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	41.68	25.67
23 21 13 23-1016 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	46.87	28.66
23 21 13 23-1017 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	53.94	32.03
23 21 13 23-1018 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	61.82	36.31
23 21 13 23-1019 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	71.34	40.85
23 21 13 23-1020 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	92.53	52.00
23 21 13 23-1021 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	152.11	76.89
23 21 13 23-1022 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	202.47	101.15
23 21 13 23-1023 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	250.81	99.72
23 21 13 23-1024 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1025 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	43.43	25.67
23 21 13 23-1026 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	48.79	28.66
23 21 13 23-1027 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	57.02	32.03
23 21 13 23-1028 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	65.54	36.31
23 21 13 23-1029 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	76.85	40.85
23 21 13 23-1030 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	98.43	52.00
23 21 13 23-1031 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	165.09	76.89
23 21 13 23-1032 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	228.58	101.15
23 21 13 23-1033 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	305.08	99.72
23 21 13 23-1034 Caps, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1035 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	23.16	12.06
23 21 13 23-1036 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	25.96	12.84
23 21 13 23-1037 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	30.32	14.78
23 21 13 23-1038 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	34.66	16.08
23 21 13 23-1039 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	38.56	16.08
23 21 13 23-1040 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	49.98	20.61
23 21 13 23-1041 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	83.14	25.67
23 21 13 23-1042 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	116.94	31.00
23 21 13 23-1043 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	161.09	34.12
23 21 13 23-1044 Black Cast Iron Square Head Plug <small>(23 21 13 23-0973)</small>		
23 21 13 23-1045 EA 1/2" Square Head Plug, Black, Cast Iron.....	16.43	10.24
23 21 13 23-1046 EA 3/4" Square Head Plug, Black, Cast Iron.....	18.10	10.24
23 21 13 23-1047 EA 1" Square Head Plug, Black, Cast Iron.....	26.34	15.56
23 21 13 23-1048 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	26.67	15.56
23 21 13 23-1049 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	28.06	15.56
23 21 13 23-1050 EA 2" Square Head Plug, Black, Cast Iron.....	37.24	20.61
23 21 13 23-1051 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	47.48	25.67
23 21 13 23-1052 EA 3" Square Head Plug, Black, Cast Iron.....	61.03	31.00
23 21 13 23-1053 EA 4" Square Head Plug, Black, Cast Iron.....	68.30	34.12
23 21 13 23-1054 Unions, 3,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-0973)</small>		
23 21 13 23-1055 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	66.27	32.03
23 21 13 23-1056 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	74.13	36.96
23 21 13 23-1057 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	92.86	43.70
23 21 13 23-1058 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	115.65	52.00

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1059 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	139.05	61.98
23 21 13 23-1060 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	173.51	76.89
23 21 13 23-1061 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	274.44	83.51
23 21 13 23-1062 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	363.07	101.15
23 21 13 23-1063 Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0972)		
Note: ASTM A105		
23 21 13 23-1064 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1065 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	49.33	25.67
23 21 13 23-1066 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	55.48	28.66
23 21 13 23-1067 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	71.03	32.03
23 21 13 23-1068 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	97.24	36.31
23 21 13 23-1069 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	111.20	40.85
23 21 13 23-1070 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	151.15	52.00
23 21 13 23-1071 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	301.16	76.89
23 21 13 23-1072 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	429.14	101.15
23 21 13 23-1073 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	738.70	99.72
23 21 13 23-1074 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1075 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	54.50	25.67
23 21 13 23-1076 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	63.21	28.66
23 21 13 23-1077 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	73.84	32.03
23 21 13 23-1078 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	101.12	36.31
23 21 13 23-1079 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	119.28	40.85
23 21 13 23-1080 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	152.68	52.00
23 21 13 23-1081 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	347.90	76.89
23 21 13 23-1082 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	471.45	101.15
23 21 13 23-1083 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	736.66	99.72
23 21 13 23-1084 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1085 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	63.63	32.03
23 21 13 23-1086 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	77.94	36.96
23 21 13 23-1087 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	105.35	43.70
23 21 13 23-1088 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	142.87	52.00
23 21 13 23-1089 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	173.55	61.98
23 21 13 23-1090 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	232.25	76.89
23 21 13 23-1091 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	433.29	101.15
23 21 13 23-1092 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	602.98	120.08
23 21 13 23-1093 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,182.27	125.89
23 21 13 23-1094 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1095 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	56.99	32.03
23 21 13 23-1096 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	68.00	36.96
23 21 13 23-1097 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	87.25	43.70
23 21 13 23-1098 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	114.14	52.00
23 21 13 23-1099 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	137.76	61.98
23 21 13 23-1100 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	180.53	76.89
23 21 13 23-1101 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	308.65	101.15
23 21 13 23-1102 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	415.16	120.08
23 21 13 23-1103 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	649.30	125.89
23 21 13 23-1104 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1105 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	43.25	25.67
23 21 13 23-1106 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	48.73	28.66
23 21 13 23-1107 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	56.80	32.03
23 21 13 23-1108 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	65.43	36.31
23 21 13 23-1109 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	76.18	40.85
23 21 13 23-1110 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	99.62	52.00
23 21 13 23-1111 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	169.93	76.89
23 21 13 23-1112 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	227.05	101.15
23 21 13 23-1113 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	299.84	99.72
23 21 13 23-1114 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1063)		
23 21 13 23-1115 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	45.83	25.67
23 21 13 23-1116 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	51.56	28.66
23 21 13 23-1117 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	61.33	32.03
23 21 13 23-1118 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	70.90	36.31
23 21 13 23-1119 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	84.31	40.85
23 21 13 23-1120 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	108.29	52.00
23 21 13 23-1121 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	189.00	76.89
23 21 13 23-1122 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	265.51	101.15
23 21 13 23-1123 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	379.79	99.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1124 Caps, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1125 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	26.61	12.06
23 21 13 23-1126 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	30.49	12.84
23 21 13 23-1127 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	35.80	14.78
23 21 13 23-1128 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	41.80	16.08
23 21 13 23-1129 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	48.33	16.08
23 21 13 23-1130 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	62.72	20.61
23 21 13 23-1131 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	113.16	25.67
23 21 13 23-1132 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	164.22	31.00
23 21 13 23-1133 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	234.81	34.12
23 21 13 23-1134 Black Cast Iron Square Head Plug <small>(23 21 13 23-1063)</small>		
23 21 13 23-1135 EA 1/2" Square Head Plug, Black Cast Iron.....	16.43	10.24
23 21 13 23-1136 EA 3/4" Square Head Plug, Black Cast Iron.....	18.11	10.24
23 21 13 23-1137 EA 1" Square Head Plug, Black Cast Iron.....	26.36	15.56
23 21 13 23-1138 EA 1-1/4" Square Head Plug, Black Cast Iron.....	26.69	15.56
23 21 13 23-1139 EA 1-1/2" Square Head Plug, Black Cast Iron.....	28.08	15.56
23 21 13 23-1140 EA 2" Square Head Plug, Black Cast Iron.....	37.27	20.61
23 21 13 23-1141 EA 2-1/2" Square Head Plug, Black Cast Iron.....	47.53	25.67
23 21 13 23-1142 EA 3" Square Head Plug, Black Cast Iron.....	61.10	31.00
23 21 13 23-1143 EA 4" Square Head Plug, Black Cast Iron.....	68.39	34.12
23 21 13 23-1144 Unions, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1063)</small>		
23 21 13 23-1145 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	77.43	32.03
23 21 13 23-1146 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	85.58	36.96
23 21 13 23-1147 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	109.59	43.70
23 21 13 23-1148 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	138.75	52.00
23 21 13 23-1149 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	167.24	61.98
23 21 13 23-1150 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	209.13	76.89
23 21 13 23-1151 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	365.65	83.51
23 21 13 23-1152 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	492.34	101.15
23 21 13 23-1153 Carbon Steel, Seamless Piping System <small>(23 21 13 23-0972)</small>		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1154 Schedule 40, Carbon Steel, Seamless Piping <small>(23 21 13 23-1153)</small>		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1155 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.30	4.80
For Schedule 80, Add	1.12	
23 21 13 23-1156 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.69	5.19
For Schedule 80, Add	1.02	
For Schedule 160, Add	4.25	
23 21 13 23-1157 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	11.84	5.57
For Schedule 80, Add	1.25	
For Schedule 160, Add	5.21	
23 21 13 23-1158 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	12.63	6.10
For Schedule 80, Add	1.29	
For Schedule 160, Add	5.36	
23 21 13 23-1159 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	16.54	7.53
For Schedule 80, Add	1.89	
For Schedule 160, Add	7.89	
23 21 13 23-1160 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	20.58	9.07
For Schedule 80, Add	2.49	
For Schedule 160, Add	10.40	
23 21 13 23-1161 90 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1162 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	34.02	19.71
23 21 13 23-1163 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	40.75	23.08
23 21 13 23-1164 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	45.56	25.81
23 21 13 23-1165 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	51.85	28.78
23 21 13 23-1166 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	77.46	36.83
23 21 13 23-1167 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	98.20	46.81
23 21 13 23-1168 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	35.45	19.71
23 21 13 23-1169 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	41.28	23.08
23 21 13 23-1170 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	47.33	25.81
23 21 13 23-1171 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	55.70	28.78
23 21 13 23-1172 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	86.65	36.83
23 21 13 23-1173 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	108.37	46.81
23 21 13 23-1174 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	46.29	23.08
23 21 13 23-1175 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	53.63	25.81
23 21 13 23-1176 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.32	28.78
23 21 13 23-1177 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	105.26	36.83
23 21 13 23-1178 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	157.73	46.81
23 21 13 23-1179 45 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1180 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	37.14	19.71

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1181 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	41.90	23.08
23 21 13 23-1182 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	47.05	25.81
23 21 13 23-1183 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	52.98	28.78
23 21 13 23-1184 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	73.78	36.83
23 21 13 23-1185 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	103.87	46.81
23 21 13 23-1186 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	37.37	19.71
23 21 13 23-1187 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	43.21	23.08
23 21 13 23-1188 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	48.56	25.81
23 21 13 23-1189 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	56.91	28.78
23 21 13 23-1190 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	85.23	36.83
23 21 13 23-1191 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	111.54	46.81
23 21 13 23-1192 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	49.75	23.08
23 21 13 23-1193 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	59.87	25.81
23 21 13 23-1194 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	64.66	28.78
23 21 13 23-1195 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	118.54	36.83
23 21 13 23-1196 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	158.60	46.81
23 21 13 23-1197 Straight Tees, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1198 EA 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	45.23	27.36
23 21 13 23-1199 EA 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	51.21	28.78
23 21 13 23-1200 EA 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	60.77	33.33
23 21 13 23-1201 EA 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel	73.84	39.30
23 21 13 23-1202 EA 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	115.00	55.76
23 21 13 23-1203 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	142.59	69.25
23 21 13 23-1204 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	46.45	27.36
23 21 13 23-1205 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	52.01	28.78
23 21 13 23-1206 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	63.43	33.33
23 21 13 23-1207 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel	76.12	39.30
23 21 13 23-1208 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	122.89	55.76
23 21 13 23-1209 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	155.65	69.25
23 21 13 23-1210 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	58.01	28.78
23 21 13 23-1211 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel	69.88	33.33
23 21 13 23-1212 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel	92.08	39.30
23 21 13 23-1213 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	141.02	55.76
23 21 13 23-1214 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	213.44	69.25
23 21 13 23-1215 Crosses, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1216 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel	65.80	34.62
23 21 13 23-1217 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel	76.90	38.90
23 21 13 23-1218 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel	82.46	41.50
23 21 13 23-1219 EA 1" Cross, 2,000 LB, Screwed Carbon Steel	101.46	50.05
23 21 13 23-1220 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel	168.55	70.02
23 21 13 23-1221 EA 2" Cross, 2,000 LB, Screwed Carbon Steel	215.74	86.49
23 21 13 23-1222 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel	78.41	38.90
23 21 13 23-1223 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel	91.09	41.50
23 21 13 23-1224 EA 1" Cross, 3,000 LB, Screwed Carbon Steel	109.02	50.05
23 21 13 23-1225 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel	179.44	70.02
23 21 13 23-1226 EA 2" Cross, 3,000 LB, Screwed Carbon Steel	235.63	86.49
23 21 13 23-1227 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel	106.52	38.90
23 21 13 23-1228 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel	167.82	41.50
23 21 13 23-1229 EA 1" Cross, 6,000 LB, Screwed Carbon Steel	227.25	50.05
23 21 13 23-1230 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel	355.25	70.02
23 21 13 23-1231 EA 2" Cross, 6,000 LB, Screwed Carbon Steel	393.72	86.49
23 21 13 23-1232 Straight Couplings, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1233 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	32.31	19.71
23 21 13 23-1234 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	37.07	23.08
23 21 13 23-1235 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	42.14	25.81
23 21 13 23-1236 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	48.39	28.78
23 21 13 23-1237 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	68.18	36.83
23 21 13 23-1238 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	86.55	46.81
23 21 13 23-1239 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	35.92	19.71
23 21 13 23-1240 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	39.35	23.08
23 21 13 23-1241 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	43.89	25.81
23 21 13 23-1242 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	50.72	28.78
23 21 13 23-1243 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	71.74	36.83
23 21 13 23-1244 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	99.57	46.81
23 21 13 23-1245 Reducing Couplings, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1246 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	32.81	21.01
23 21 13 23-1247 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	38.25	23.08
23 21 13 23-1248 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	43.95	25.81
23 21 13 23-1249 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	50.89	28.78
23 21 13 23-1250 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	68.83	36.83
23 21 13 23-1251 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	90.06	46.81
23 21 13 23-1252 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	84.40	23.08



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Piping and Pumps

23 20

Hydraulic Piping and Pumps

23 21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1253 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	88.53	25.81
23 21 13 23-1254 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	102.85	28.78
23 21 13 23-1255 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	145.69	36.83
23 21 13 23-1256 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	206.39	46.81
 23 21 13 23-1257 Caps, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1258 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel	15.39	8.81
23 21 13 23-1259 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel	17.86	10.24
23 21 13 23-1260 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel	20.63	11.54
23 21 13 23-1261 EA 1" Cap, 3,000 LB, Screwed Carbon Steel	24.38	12.84
23 21 13 23-1262 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel	32.71	16.34
23 21 13 23-1263 EA 2" Cap, 3,000 LB, Screwed Carbon Steel	43.80	20.88
23 21 13 23-1264 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel	19.71	8.81
23 21 13 23-1265 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel	20.63	10.24
23 21 13 23-1266 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel	25.14	11.54
23 21 13 23-1267 EA 1" Cap, 6,000 LB, Screwed Carbon Steel	27.68	12.84
23 21 13 23-1268 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel	46.15	16.34
23 21 13 23-1269 EA 2" Cap, 6,000 LB, Screwed Carbon Steel	56.89	20.88
 23 21 13 23-1270 Nipples, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1271 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel	19.76	11.80
23 21 13 23-1272 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel	20.16	12.31
23 21 13 23-1273 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel	20.05	12.31
23 21 13 23-1274 EA 1" Nipple, 2" Long, Screwed Carbon Steel	22.14	13.36
23 21 13 23-1275 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel	24.91	14.40
23 21 13 23-1276 EA 2" Nipple, 2" Long, Screwed Carbon Steel	30.38	18.54
23 21 13 23-1277 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel	20.58	11.80
23 21 13 23-1278 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel	20.82	12.31
23 21 13 23-1279 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel	20.79	12.31
23 21 13 23-1280 EA 1" Nipple, 4" Long, Screwed Carbon Steel	23.14	13.36
23 21 13 23-1281 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel	26.69	14.40
23 21 13 23-1282 EA 2" Nipple, 4" Long, Screwed Carbon Steel	32.99	18.54
23 21 13 23-1283 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel	22.56	11.80
23 21 13 23-1284 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel	21.86	12.31
23 21 13 23-1285 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel	21.95	12.31
23 21 13 23-1286 EA 1" Nipple, 6" Long, Screwed Carbon Steel	24.57	13.36
23 21 13 23-1287 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel	29.13	14.40
23 21 13 23-1288 EA 2" Nipple, 6" Long, Screwed Carbon Steel	35.14	18.54
 23 21 13 23-1289 Unions, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1290 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel	41.82	28.66
23 21 13 23-1291 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel	44.63	28.78
23 21 13 23-1292 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel	51.32	33.33
23 21 13 23-1293 EA 1" Union, 3,000 LB, Screwed Carbon Steel	61.06	39.30
23 21 13 23-1294 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel	87.23	55.76
23 21 13 23-1295 EA 2" Union, 3,000 LB, Screwed Carbon Steel	108.25	69.25
23 21 13 23-1296 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel	60.96	28.66
23 21 13 23-1297 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel	67.77	28.78
23 21 13 23-1298 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel	79.34	33.33
23 21 13 23-1299 EA 1" Union, 6,000 LB, Screwed Carbon Steel	95.59	39.30
23 21 13 23-1300 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel	157.83	55.76
23 21 13 23-1301 EA 2" Union, 6,000 LB, Screwed Carbon Steel	195.15	69.25
 23 21 13 23-1302 Weld Neck Flanges, Screwed Carbon Steel <small>(23 21 13 23-1153)</small>		
23 21 13 23-1303 EA 1/2" Flange, 150 LB, Screwed Carbon Steel	90.54	53.55
23 21 13 23-1304 EA 3/4" Flange, 150 LB, Screwed Carbon Steel	94.75	56.15
23 21 13 23-1305 EA 1" Flange, 150 LB, Screwed Carbon Steel	98.40	58.61
23 21 13 23-1306 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel	109.86	66.01
23 21 13 23-1307 EA 2" Flange, 150 LB, Screwed Carbon Steel	114.18	68.85
23 21 13 23-1308 EA 1/2" Flange, 300 LB, Screwed Carbon Steel	91.18	53.55
<i>For Ring Type Joint, Add</i>		10.82
<i>For Blind Flange, Deduct</i>		-34.31
23 21 13 23-1309 EA 3/4" Flange, 300 LB, Screwed Carbon Steel	95.44	56.15
<i>For Ring Type Joint, Add</i>		11.19
<i>For Blind Flange, Deduct</i>		-35.94
23 21 13 23-1310 EA 1" Flange, 300 LB, Screwed Carbon Steel	99.44	58.61
<i>For Ring Type Joint, Add</i>		11.54
<i>For Blind Flange, Deduct</i>		-37.47
23 21 13 23-1311 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel	112.34	66.01
<i>For Ring Type Joint, Add</i>		13.35
<i>For Blind Flange, Deduct</i>		-42.27
23 21 13 23-1312 EA 2" Flange, 300 LB, Screwed Carbon Steel	116.66	68.85
<i>For Ring Type Joint, Add</i>		13.35
<i>For Blind Flange, Deduct</i>		-43.99
23 21 13 23-1313 EA 1/2" Flange, 600 LB, Screwed Carbon Steel	95.44	53.55
<i>For Ring Type Joint, Add</i>		15.08
<i>For Blind Flange, Deduct</i>		-35.16

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1314	EA	3/4" Flange, 600 LB, Screwed Carbon Steel..... For Ring Type Joint, Add For Blind Flange, Deduct	99.33 15.08 -36.72	56.15
23 21	13 23-1315	EA	1" Flange, 600 LB, Screwed Carbon Steel..... For Ring Type Joint, Add For Blind Flange, Deduct	103.67 15.77 -38.31	58.61
23 21	13 23-1316	EA	1-1/2" Flange, 600 LB, Screwed Carbon Steel For Ring Type Joint, Add For Blind Flange, Deduct	117.58 18.59 -43.31	66.01
23 21	13 23-1317	EA	2" Flange, 600 LB, Screwed Carbon Steel..... For Ring Type Joint, Add For Blind Flange, Deduct	120.61 17.30 -44.78	68.85
23 21 13 23-1318 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1319	EA	1/4" Square Head Plug, Screwed Carbon Steel.....	6.37	3.63
23 21	13 23-1320	EA	1/2" Square Head Plug, Screwed Carbon Steel.....	7.63	4.28
23 21	13 23-1321	EA	3/4" Square Head Plug, Screwed Carbon Steel.....	8.81	4.93
23 21	13 23-1322	EA	1" Square Head Plug, Screwed Carbon Steel.....	12.86	7.26
23 21	13 23-1323	EA	1-1/2" Square Head Plug, Screwed Carbon Steel.....	15.38	7.26
23 21	13 23-1324	EA	2" Square Head Plug, Screwed Carbon Steel.....	21.70	9.47
23 21 13 23-1325 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1326	EA	1/4" Hex Head Plug, Screwed Carbon Steel.....	6.12	3.63
23 21	13 23-1327	EA	1/2" Hex Head Plug, Screwed Carbon Steel.....	7.40	4.28
23 21	13 23-1328	EA	3/4" Hex Head Plug, Screwed Carbon Steel.....	8.66	4.93
23 21	13 23-1329	EA	1" Hex Head Plug, Screwed Carbon Steel.....	12.73	7.26
23 21	13 23-1330	EA	1-1/2" Hex Head Plug, Screwed Carbon Steel.....	14.82	7.26
23 21	13 23-1331	EA	2" Hex Head Plug, Screwed Carbon Steel.....	22.09	9.47
23 21 13 23-1332 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1333	EA	1/4" Round Head Plug, Screwed Carbon Steel.....	6.94	3.63
23 21	13 23-1334	EA	1/2" Round Head Plug, Screwed Carbon Steel.....	7.67	4.28
23 21	13 23-1335	EA	3/4" Round Head Plug, Screwed Carbon Steel.....	8.70	4.93
23 21	13 23-1336	EA	1" Round Head Plug, Screwed Carbon Steel.....	12.95	7.26
23 21	13 23-1337	EA	1-1/2" Round Head Plug, Screwed Carbon Steel.....	16.07	7.26
23 21	13 23-1338	EA	2" Round Head Plug, Screwed Carbon Steel.....	21.94	9.47
23 21 13 23-1339 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1340	EA	1/4" Hex Bushing, Screwed Carbon Steel.....	6.31	3.63
23 21	13 23-1341	EA	1/2" Hex Bushing, Screwed Carbon Steel.....	7.39	4.28
23 21	13 23-1342	EA	3/4" Hex Bushing, Screwed Carbon Steel.....	8.59	4.93
23 21	13 23-1343	EA	1" Hex Bushing, Screwed Carbon Steel.....	12.91	7.26
23 21	13 23-1344	EA	1-1/2" Hex Bushing, Screwed Carbon Steel.....	14.78	7.26
23 21	13 23-1345	EA	2" Hex Bushing, Screwed Carbon Steel.....	21.51	9.47
23 21 13 23-1346 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1153)					
23 21	13 23-1347	EA	1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	38.60	19.71
23 21	13 23-1348	EA	1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	44.34	23.08
23 21	13 23-1349	EA	3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.26	25.81
23 21	13 23-1350	EA	1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	59.27	28.78
23 21	13 23-1351	EA	1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	89.54	36.83
23 21	13 23-1352	EA	2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	119.16	46.81
23 21	13 23-1353	EA	1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	57.42	23.08
23 21	13 23-1354	EA	3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	77.85	25.81
23 21	13 23-1355	EA	1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	103.77	28.78
23 21	13 23-1356	EA	1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	211.95	36.83
23 21 13 23-1357 Screwed Carbon Steel Laterals (23 21 13 23-1153)					
23 21	13 23-1358	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	133.30	28.78
23 21	13 23-1359	EA	3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	159.54	33.33
23 21	13 23-1360	EA	1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	194.46	39.30
23 21	13 23-1361	EA	1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	252.87	55.76
23 21	13 23-1362	EA	2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	315.26	69.25
23 21	13 23-1363	EA	1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	163.86	28.78
23 21	13 23-1364	EA	3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	204.98	33.33
23 21	13 23-1365	EA	1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	243.04	39.30
23 21	13 23-1366	EA	1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	342.19	55.76
23 21 13 23-1367 Grooved-Joint Pipe (23 21 13 23)					
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.					
23 21 13 23-1368 Schedule 10 Black Grooved Pipe (23 21 13 23-1367)					
23 21	13 23-1369	LF	2" Black Schedule 10 Grooved Pipe.....	34.11	16.47
23 21	13 23-1370	LF	2-1/2" Black Schedule 10 Grooved Pipe.....	46.14	22.57



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 21 13 23-1371 LF 3" Black Schedule 10 Grooved Pipe.....		51.72	25.03
	23 21 13 23-1372 LF 3-1/2" Black Schedule 10 Grooved Pipe.....		57.11	25.94
	23 21 13 23-1373 LF 4" Black Schedule 10 Grooved Pipe.....		60.78	28.14
	23 21 13 23-1374 LF 5" Black Schedule 10 Grooved Pipe.....		84.36	34.50
	23 21 13 23-1375 LF 6" Black Schedule 10 Grooved Pipe.....		110.04	49.02
	23 21 13 23-1376 LF 8" Black Schedule 10 Grooved Pipe.....		147.04	54.98
	23 21 13 23-1377 LF 10" Black Schedule 10 Grooved Pipe.....		183.60	66.27
	23 21 13 23-1378 LF 12" Black Schedule 10 Grooved Pipe.....		211.44	75.08
23 21 13 23-1379	Schedule 40 Black Grooved Pipe (23 21 13 23-1367)			
	23 21 13 23-1380 LF 3/4" Black Schedule 40 Grooved Pipe.....		20.48	9.98
	23 21 13 23-1381 LF 1" Black Schedule 40 Grooved Pipe.....		23.13	11.28
	23 21 13 23-1382 LF 1-1/4" Black Schedule 40 Grooved Pipe.....		26.14	12.19
	23 21 13 23-1383 LF 1-1/2" Black Schedule 40 Grooved Pipe.....		29.73	13.87
	23 21 13 23-1384 LF 2" Black Schedule 40 Grooved Pipe.....		37.55	17.64
	23 21 13 23-1385 LF 2-1/2" Black Schedule 40 Grooved Pipe.....		52.16	24.12
	23 21 13 23-1386 LF 3" Black Schedule 40 Grooved Pipe.....		61.29	27.50
	23 21 13 23-1387 LF 4" Black Schedule 40 Grooved Pipe.....		74.31	30.60
	23 21 13 23-1388 LF 5" Black Schedule 40 Grooved Pipe.....		100.94	37.21
	23 21 13 23-1389 LF 6" Black Schedule 40 Grooved Pipe.....		136.77	53.68
	23 21 13 23-1390 LF 8" Black Schedule 40 Grooved Pipe.....		178.72	60.82
	23 21 13 23-1391 LF 10" Black Schedule 40 Grooved Pipe.....		243.24	72.62
	23 21 13 23-1392 LF 12" Black Schedule 40 Grooved Pipe.....		285.92	83.38
	23 21 13 23-1393 LF 14" Black Schedule 40 Grooved Pipe.....		378.11	112.69
	23 21 13 23-1394 LF 16" Black Schedule 40 Grooved Pipe.....		439.14	132.53
	23 21 13 23-1395 LF 18" Black Schedule 40 Grooved Pipe.....		544.16	160.93
	23 21 13 23-1396 LF 20" Black Schedule 40 Grooved Pipe.....		628.09	187.64
	23 21 13 23-1397 LF 24" Black Schedule 40 Grooved Pipe.....		815.54	225.25
23 21 13 23-1398	Schedule 80 Black Grooved Pipe (23 21 13 23-1367)			
	23 21 13 23-1399 LF 3/4" Black Schedule 80 Grooved Pipe.....		22.43	10.90
	23 21 13 23-1400 LF 1" Black Schedule 80 Grooved Pipe.....		24.76	11.54
	23 21 13 23-1401 LF 1-1/4" Black Schedule 80 Grooved Pipe.....		28.88	12.84
	23 21 13 23-1402 LF 1-1/2" Black Schedule 80 Grooved Pipe.....		32.81	14.40
	23 21 13 23-1403 LF 2" Black Schedule 80 Grooved Pipe.....		42.43	18.54
	23 21 13 23-1404 LF 2-1/2" Black Schedule 80 Grooved Pipe.....		59.57	25.54
	23 21 13 23-1405 LF 3" Black Schedule 80 Grooved Pipe.....		70.57	28.66
	23 21 13 23-1406 LF 4" Black Schedule 80 Grooved Pipe.....		87.34	31.25
	23 21 13 23-1407 LF 5" Black Schedule 80 Grooved Pipe.....		131.05	39.30
	23 21 13 23-1408 LF 6" Black Schedule 80 Grooved Pipe.....		172.03	56.28
	23 21 13 23-1409 LF 8" Black Schedule 80 Grooved Pipe.....		251.89	64.32
	23 21 13 23-1410 LF 10" Black Schedule 80 Grooved Pipe.....		312.83	77.68
	23 21 13 23-1411 LF 12" Black Schedule 80 Grooved Pipe.....		332.85	93.89
23 21 13 23-1412	Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1367)			
	23 21 13 23-1413 LF 3/4" Galvanized Schedule 40 Grooved Pipe.....		21.07	9.98
	23 21 13 23-1414 LF 1" Galvanized Schedule 40 Grooved Pipe.....		24.36	11.28
	23 21 13 23-1415 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe.....		27.07	12.19
	23 21 13 23-1416 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe.....		30.81	13.87
	23 21 13 23-1417 LF 2" Galvanized Schedule 40 Grooved Pipe.....		39.00	17.64
	23 21 13 23-1418 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe.....		54.49	24.12
	23 21 13 23-1419 LF 3" Galvanized Schedule 40 Grooved Pipe.....		64.41	27.50
	23 21 13 23-1420 LF 4" Galvanized Schedule 40 Grooved Pipe.....		78.72	30.60
	23 21 13 23-1421 LF 5" Galvanized Schedule 40 Grooved Pipe.....		109.25	37.21
	23 21 13 23-1422 LF 6" Galvanized Schedule 40 Grooved Pipe.....		148.12	53.68
	23 21 13 23-1423 LF 8" Galvanized Schedule 40 Grooved Pipe.....		194.33	60.82
	23 21 13 23-1424 LF 10" Galvanized Schedule 40 Grooved Pipe.....		270.88	72.62
	23 21 13 23-1425 LF 12" Galvanized Schedule 40 Grooved Pipe.....		319.40	83.38
23 21 13 23-1426	Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1367)			
	23 21 13 23-1427 LF 3/4" Galvanized Schedule 80 Grooved Pipe.....		22.68	10.90
	23 21 13 23-1428 LF 1" Galvanized Schedule 80 Grooved Pipe.....		28.95	11.54
	23 21 13 23-1429 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe.....		29.55	12.84
	23 21 13 23-1430 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe.....		38.29	15.30
	23 21 13 23-1431 LF 2" Galvanized Schedule 80 Grooved Pipe.....		43.60	18.54
	23 21 13 23-1432 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe.....		61.54	25.54
	23 21 13 23-1433 LF 3" Galvanized Schedule 80 Grooved Pipe.....		73.55	28.66
	23 21 13 23-1434 LF 4" Galvanized Schedule 80 Grooved Pipe.....		91.46	31.25
	23 21 13 23-1435 LF 5" Galvanized Schedule 80 Grooved Pipe.....		135.89	39.30
	23 21 13 23-1436 LF 6" Galvanized Schedule 80 Grooved Pipe.....		177.39	56.28
	23 21 13 23-1437 LF 8" Galvanized Schedule 80 Grooved Pipe.....		260.60	64.32
	23 21 13 23-1438 LF 10" Galvanized Schedule 80 Grooved Pipe.....		310.41	77.68
	23 21 13 23-1439 LF 12" Galvanized Schedule 80 Grooved Pipe.....		342.70	93.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1440 Painted Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small> Note: Couplings are not included with fittings.		
23 21 13 23-1441 Grooved Elbows <small>(23 21 13 23-1440)</small>		
23 21 13 23-1442 90 Degree Grooved Elbows <small>(23 21 13 23-1441)</small> Note: Victaulic No. 10		
23 21 13 23-1443 EA 3/4", Ductile Iron, Grooved 90 Degree Elbow .....107.15 <i>For Galvanized Fittings, Add</i> 28.37	14.14	
23 21 13 23-1444 EA 1", Ductile Iron, Grooved 90 Degree Elbow .....107.15 <i>For Galvanized Fittings, Add</i> 28.37	14.14	
23 21 13 23-1445 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow .....112.45 <i>For Galvanized Fittings, Add</i> 28.37	17.64	
23 21 13 23-1446 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow .....118.06 <i>For Galvanized Fittings, Add</i> 28.37	21.40	
23 21 13 23-1447 EA 2", Ductile Iron, Grooved 90 Degree Elbow .....128.34 <i>For Galvanized Fittings, Add</i> 28.37	28.27	
23 21 13 23-1448 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow .....137.58 <i>For Galvanized Fittings, Add</i> 28.37	34.50	
23 21 13 23-1449 EA 3", Ductile Iron, Grooved 90 Degree Elbow .....215.29 <i>For Galvanized Fittings, Add</i> 50.39	41.75	
23 21 13 23-1450 EA 4", Ductile Iron, Grooved 90 Degree Elbow .....248.93 <i>For Galvanized Fittings, Add</i> 54.89	55.11	
23 21 13 23-1451 EA 5", Ductile Iron, Grooved 90 Degree Elbow .....508.12 <i>For Galvanized Fittings, Add</i> 133.61	68.85	
23 21 13 23-1452 EA 6", Ductile Iron, Grooved 90 Degree Elbow .....605.61 <i>For Galvanized Fittings, Add</i> 155.27	90.12	
23 21 13 23-1453 EA 8", Ductile Iron, Grooved 90 Degree Elbow .....1,151.12 <i>For Galvanized Fittings, Add</i> 326.80	107.25	
23 21 13 23-1454 EA 10", Ductile Iron, Grooved 90 Degree Elbow .....1,730.52 <i>For Galvanized Fittings, Add</i> 509.16	125.13	
23 21 13 23-1455 EA 12", Ductile Iron, Grooved 90 Degree Elbow .....2,698.17 <i>For Galvanized Fittings, Add</i> 816.10	150.16	
23 21 13 23-1456 EA 14", Steel, Grooved 90 Degree Elbow .....5,397.19 <i>For Galvanized Fittings, Add</i> 1,697.20	169.49	
23 21 13 23-1457 EA 16", Steel, Grooved 90 Degree Elbow .....7,011.08 <i>For Galvanized Fittings, Add</i> 2,220.80	187.64	
23 21 13 23-1458 EA 18", Steel, Grooved 90 Degree Elbow .....8,842.54 <i>For Galvanized Fittings, Add</i> 2,816.62	205.01	
23 21 13 23-1459 EA 20", Steel, Grooved 90 Degree Elbow .....11,535.87 <i>For Galvanized Fittings, Add</i> 3,701.33	213.18	
23 21 13 23-1460 EA 24", Steel, Grooved 90 Degree Elbow .....16,518.16 <i>For Galvanized Fittings, Add</i> 5,326.31	252.09	
23 21 13 23-1461 45 Degree Grooved Elbows <small>(23 21 13 23-1441)</small> Note: Victaulic No. 11		
23 21 13 23-1462 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow .....107.09 <i>For Galvanized Fittings, Add</i> 20.62	14.14	
23 21 13 23-1463 EA 1", Ductile Iron, Grooved 45 Degree Elbow .....107.09 <i>For Galvanized Fittings, Add</i> 20.62	14.14	
23 21 13 23-1464 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow .....112.39 <i>For Galvanized Fittings, Add</i> 20.62	17.64	
23 21 13 23-1465 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow .....118.00 <i>For Galvanized Fittings, Add</i> 20.62	21.40	
23 21 13 23-1466 EA 2", Ductile Iron, Grooved 45 Degree Elbow .....128.28 <i>For Galvanized Fittings, Add</i> 20.62	28.27	
23 21 13 23-1467 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow .....137.52 <i>For Galvanized Fittings, Add</i> 20.62	34.50	
23 21 13 23-1468 EA 3", Ductile Iron, Grooved 45 Degree Elbow .....215.23 <i>For Galvanized Fittings, Add</i> 36.64	41.75	
23 21 13 23-1469 EA 4", Ductile Iron, Grooved 45 Degree Elbow .....248.93 <i>For Galvanized Fittings, Add</i> 39.92	55.11	
23 21 13 23-1470 EA 5", Ductile Iron, Grooved 45 Degree Elbow .....508.12 <i>For Galvanized Fittings, Add</i> 97.17	68.85	
23 21 13 23-1471 EA 6", Ductile Iron, Grooved 45 Degree Elbow .....605.61 <i>For Galvanized Fittings, Add</i> 112.93	90.12	
23 21 13 23-1472 EA 8", Ductile Iron, Grooved 45 Degree Elbow .....1,151.12 <i>For Galvanized Fittings, Add</i> 237.67	107.25	
23 21 13 23-1473 EA 10", Ductile Iron, Grooved 45 Degree Elbow .....1,730.52 <i>For Galvanized Fittings, Add</i> 370.30	125.13	
23 21 13 23-1474 EA 12", Ductile Iron, Grooved 45 Degree Elbow .....2,698.17 <i>For Galvanized Fittings, Add</i> 593.53	150.16	
23 21 13 23-1475 EA 14", Steel, Grooved 45 Degree Elbow .....5,397.19 <i>For Galvanized Fittings, Add</i> 1,234.32	169.49	
23 21 13 23-1476 EA 16", Steel, Grooved 45 Degree Elbow .....7,011.08 <i>For Galvanized Fittings, Add</i> 1,615.13	187.64	
23 21 13 23-1477 EA 18", Steel, Grooved 45 Degree Elbow .....8,842.54 <i>For Galvanized Fittings, Add</i> 2,048.45	205.01	
23 21 13 23-1478 EA 20", Steel, Grooved 45 Degree Elbow .....11,536.44 <i>For Galvanized Fittings, Add</i> 2,691.88	213.58	
23 21 13 23-1479 EA 24", Steel, Grooved 45 Degree Elbow .....16,518.16 <i>For Galvanized Fittings, Add</i> 3,873.68	252.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1480 22-1/2 Degree Grooved Elbows <small>(23 21 13 23-1441)</small>		
<i>Note: Victaulic No. 12</i>		
23 21 13 23-1481 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow	112.75	14.14
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1482 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow	118.05	17.64
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1483 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	123.66	21.40
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1484 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow	133.94	28.27
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1485 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	143.18	34.50
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1486 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow	196.49	41.75
<i>For Galvanized Fittings, Add</i>	<i>32.14</i>	
23 21 13 23-1487 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow	262.16	55.11
<i>For Galvanized Fittings, Add</i>	<i>43.09</i>	
23 21 13 23-1488 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow	660.07	68.85
<i>For Galvanized Fittings, Add</i>	<i>133.64</i>	
23 21 13 23-1489 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow	643.77	90.12
<i>For Galvanized Fittings, Add</i>	<i>122.09</i>	
23 21 13 23-1490 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow	1,225.15	107.25
<i>For Galvanized Fittings, Add</i>	<i>255.44</i>	
23 21 13 23-1491 EA 10", Steel, Grooved 22-1/2 Degree Elbow	1,648.82	125.13
<i>For Galvanized Fittings, Add</i>	<i>350.69</i>	
23 21 13 23-1492 EA 12", Steel, Grooved 22-1/2 Degree Elbow	2,200.56	150.16
<i>For Galvanized Fittings, Add</i>	<i>474.10</i>	
23 21 13 23-1493 EA 14", Steel, Grooved 22-1/2 Degree Elbow	2,535.83	169.49
<i>For Galvanized Fittings, Add</i>	<i>547.60</i>	
23 21 13 23-1494 EA 16", Steel, Grooved 22-1/2 Degree Elbow	3,017.93	187.64
<i>For Galvanized Fittings, Add</i>	<i>656.77</i>	
23 21 13 23-1495 EA 18", Steel, Grooved 22-1/2 Degree Elbow	3,621.48	205.01
<i>For Galvanized Fittings, Add</i>	<i>795.40</i>	
23 21 13 23-1496 EA 20", Steel, Grooved 22-1/2 Degree Elbow	4,237.93	213.18
<i>For Galvanized Fittings, Add</i>	<i>940.37</i>	
23 21 13 23-1497 EA 24", Steel, Grooved 22-1/2 Degree Elbow	5,643.08	252.09
<i>For Galvanized Fittings, Add</i>	<i>1,263.66</i>	
23 21 13 23-1498 11-1/4 Degree Grooved Elbows <small>(23 21 13 23-1441)</small>		
<i>Note: Victaulic No. 13</i>		
23 21 13 23-1499 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow	112.75	14.14
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1500 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow	118.05	17.64
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1501 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	123.66	21.40
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1502 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow	133.94	28.27
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1503 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	143.18	34.50
<i>For Galvanized Fittings, Add</i>	<i>21.97</i>	
23 21 13 23-1504 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow	196.48	41.75
<i>For Galvanized Fittings, Add</i>	<i>32.14</i>	
23 21 13 23-1505 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow	262.15	55.11
<i>For Galvanized Fittings, Add</i>	<i>43.09</i>	
23 21 13 23-1506 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow	660.05	68.85
<i>For Galvanized Fittings, Add</i>	<i>133.63</i>	
23 21 13 23-1507 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow	643.74	90.12
<i>For Galvanized Fittings, Add</i>	<i>122.08</i>	
23 21 13 23-1508 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow	1,225.08	107.25
<i>For Galvanized Fittings, Add</i>	<i>255.42</i>	
23 21 13 23-1509 EA 10", Steel, Grooved 11-1/4 Degree Elbow	1,648.74	125.13
<i>For Galvanized Fittings, Add</i>	<i>350.67</i>	
23 21 13 23-1510 EA 12", Steel, Grooved 11-1/4 Degree Elbow	2,200.45	150.16
<i>For Galvanized Fittings, Add</i>	<i>474.07</i>	
23 21 13 23-1511 EA 14", Steel, Grooved 11-1/4 Degree Elbow	2,535.72	169.49
<i>For Galvanized Fittings, Add</i>	<i>547.57</i>	
23 21 13 23-1512 EA 16", Steel, Grooved 11-1/4 Degree Elbow	3,017.82	187.77
<i>For Galvanized Fittings, Add</i>	<i>656.73</i>	
23 21 13 23-1513 EA 18", Steel, Grooved 11-1/4 Degree Elbow	3,621.27	205.01
<i>For Galvanized Fittings, Add</i>	<i>795.36</i>	
23 21 13 23-1514 EA 20", Steel, Grooved 11-1/4 Degree Elbow	4,237.71	213.18
<i>For Galvanized Fittings, Add</i>	<i>940.32</i>	
23 21 13 23-1515 EA 24", Steel, Grooved 11-1/4 Degree Elbow	5,642.80	252.09
<i>For Galvanized Fittings, Add</i>	<i>1,263.59</i>	
23 21 13 23-1516 90 Degree Grooved Long Radius Elbows <small>(23 21 13 23-1441)</small>		
<i>Note: Victaulic No. 100</i>		
23 21 13 23-1517 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	238.90	28.27
<i>For Galvanized Fittings, Add</i>	<i>47.16</i>	
23 21 13 23-1518 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	621.86	34.50
<i>For Galvanized Fittings, Add</i>	<i>136.86</i>	
23 21 13 23-1519 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow	259.10	41.75
<i>For Galvanized Fittings, Add</i>	<i>47.16</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1520	EA	4", Ductile Iron, Grooved 90 Degree Long Radius Elbow	376.99	55.11
			<i>For Galvanized Fittings, Add</i>	70.65	
23 21	13 23-1521	EA	5", Ductile Iron, Grooved 90 Degree Long Radius Elbow	1,612.16	68.85
			<i>For Galvanized Fittings, Add</i>	362.14	
23 21	13 23-1522	EA	6", Ductile Iron, Grooved 90 Degree Long Radius Elbow	996.29	90.12
			<i>For Galvanized Fittings, Add</i>	206.69	
23 21	13 23-1523	EA	8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow	2,226.55	107.25
			<i>For Galvanized Fittings, Add</i>	495.78	
23 21	13 23-1524	EA	10", Ductile Iron, Grooved 90 Degree Long Radius Elbow	4,470.76	125.13
			<i>For Galvanized Fittings, Add</i>	1,027.96	
23 21	13 23-1525	EA	12", Ductile Iron, Grooved 90 Degree Long Radius Elbow	5,332.80	150.16
			<i>For Galvanized Fittings, Add</i>	1,225.84	
23 21	13 23-1526		Grooved Tees, Wyes And Crosses (23 21 13 23-1440)		
23 21	13 23-1527		Grooved Tees (23 21 13 23-1526) Note: Victaulic No. 20		
23 21	13 23-1528	EA	3/4", Ductile Iron, Grooved Tee.....	159.23	18.54
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1529	EA	1", Ductile Iron, Grooved Tee.....	163.45	21.40
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1530	EA	1-1/4", Ductile Iron, Grooved Tee	170.59	26.20
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1531	EA	1-1/2", Ductile Iron, Grooved Tee	179.51	32.16
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1532	EA	2", Ductile Iron, Grooved Tee.....	193.67	41.63
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1533	EA	2-1/2", Ductile Iron, Grooved Tee	207.83	50.97
			<i>For Galvanized Fittings, Add</i>	39.41	
23 21	13 23-1534	EA	3", Ductile Iron, Grooved Tee.....	277.86	62.64
			<i>For Galvanized Fittings, Add</i>	55.20	
23 21	13 23-1535	EA	4", Ductile Iron, Grooved Tee.....	403.71	81.05
			<i>For Galvanized Fittings, Add</i>	84.68	
23 21	13 23-1536	EA	5", Ductile Iron, Grooved Tee.....	821.04	105.95
			<i>For Galvanized Fittings, Add</i>	198.66	
23 21	13 23-1537	EA	6", Ductile Iron, Grooved Tee.....	963.98	132.53
			<i>For Galvanized Fittings, Add</i>	229.60	
23 21	13 23-1538	EA	8", Ductile Iron, Grooved Tee.....	1,913.00	160.93
			<i>For Galvanized Fittings, Add</i>	501.54	
23 21	13 23-1539	EA	10", Ductile Iron, Grooved Tee.....	3,266.75	187.64
			<i>For Galvanized Fittings, Add</i>	895.60	
23 21	13 23-1540	EA	12", Ductile Iron, Grooved Tee.....	4,517.16	225.25
			<i>For Galvanized Fittings, Add</i>	1,253.84	
23 21	13 23-1541	EA	14", Steel, Grooved Tee.....	4,934.64	250.28
			<i>For Galvanized Fittings, Add</i>	1,367.83	
23 21	13 23-1542	EA	16", Steel, Grooved Tee.....	6,185.20	251.69
			<i>For Galvanized Fittings, Add</i>	1,742.35	
23 21	13 23-1543	EA	18", Steel, Grooved Tee.....	7,689.59	277.63
			<i>For Galvanized Fittings, Add</i>	2,182.01	
23 21	13 23-1544	EA	20", Steel, Grooved Tee.....	10,844.32	282.05
			<i>For Galvanized Fittings, Add</i>	3,126.46	
23 21	13 23-1545	EA	24", Steel, Grooved Tee.....	16,531.81	346.50
			<i>For Galvanized Fittings, Add</i>	4,803.68	
23 21	13 23-1546		Grooved Wyes (90 Degree True Wye) (23 21 13 23-1526) Note: Victaulic No. 33		
23 21	13 23-1547	EA	1", Steel, Grooved Wye.....	586.32	21.40
			<i>For Galvanized Fittings, Add</i>	88.68	
23 21	13 23-1548	EA	1-1/4", Steel, Grooved Wye	593.46	26.20
			<i>For Galvanized Fittings, Add</i>	88.68	
23 21	13 23-1549	EA	1-1/2", Steel, Grooved Wye	602.38	32.16
			<i>For Galvanized Fittings, Add</i>	88.68	
23 21	13 23-1550	EA	2", Steel, Grooved Wye.....	616.54	41.63
			<i>For Galvanized Fittings, Add</i>	88.68	
23 21	13 23-1551	EA	2-1/2", Steel, Grooved Wye	630.70	50.97
			<i>For Galvanized Fittings, Add</i>	88.68	
23 21	13 23-1552	EA	3", Steel, Grooved Wye.....	756.34	62.64
			<i>For Galvanized Fittings, Add</i>	106.00	
23 21	13 23-1553	EA	4", Steel, Grooved Wye.....	989.20	81.05
			<i>For Galvanized Fittings, Add</i>	138.84	
23 21	13 23-1554	EA	5", Steel, Grooved Wye.....	1,402.62	105.95
			<i>For Galvanized Fittings, Add</i>	199.00	
23 21	13 23-1555	EA	6", Steel, Grooved Wye.....	1,737.56	132.53
			<i>For Galvanized Fittings, Add</i>	246.23	
23 21	13 23-1556	EA	8", Steel, Grooved Wye.....	2,457.67	160.93
			<i>For Galvanized Fittings, Add</i>	354.63	
23 21	13 23-1557	EA	10", Steel, Grooved Wye.....	4,106.98	187.64
			<i>For Galvanized Fittings, Add</i>	612.09	
23 21	13 23-1558	EA	12", Steel, Grooved Wye.....	4,564.06	225.25
			<i>For Galvanized Fittings, Add</i>	676.22	
23 21	13 23-1559	EA	14", Steel, Grooved Wye.....	5,201.26	250.28
			<i>For Galvanized Fittings, Add</i>	772.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1560 EA 16", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	6,645.37 1,002.95	251.44
23 21 13 23-1561 EA 18", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	7,587.01 1,147.25	277.89
23 21 13 23-1562 EA 20", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	10,821.52 1,663.90	281.52
23 21 13 23-1563 EA 24", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	16,687.69 2,586.90	346.50
23 21 13 23-1564 Grooved Crosses <small>(23 21 13 23-1526)</small>		
<i>Note: Victaulic No. 35</i>		
23 21 13 23-1565 EA 3/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	400.64 53.82	27.88
23 21 13 23-1566 EA 1", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	406.98 53.82	32.16
23 21 13 23-1567 EA 1-1/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	491.92 64.96	39.30
23 21 13 23-1568 EA 1-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	538.88 70.00	48.24
23 21 13 23-1569 EA 2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	357.20 39.56	62.38
23 21 13 23-1570 EA 2-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	378.44 39.56	76.51
23 21 13 23-1571 EA 3", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	614.68 71.08	93.89
23 21 13 23-1572 EA 4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	971.05 118.33	121.50
23 21 13 23-1573 EA 5", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	1,849.83 241.74	158.86
23 21 13 23-1574 EA 6", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	2,371.41 311.02	198.80
23 21 13 23-1575 EA 8", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	3,092.55 409.61	241.32
23 21 13 23-1576 EA 10", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	5,079.54 698.61	281.52
23 21 13 23-1577 EA 12", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	7,227.58 1,008.15	337.93
23 21 13 23-1578 EA 14", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	7,526.16 1,044.50	375.41
23 21 13 23-1579 EA 16", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	9,675.22 1,366.37	377.61
23 21 13 23-1580 EA 18", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	11,789.95 1,674.85	416.39
23 21 13 23-1581 EA 20", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	16,452.65 2,372.79	422.88
23 21 13 23-1582 EA 24", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	25,199.72 3,663.06	519.74
23 21 13 23-1583 Grooved Reducing Tees <small>(23 21 13 23-1526)</small>		
<i>Note: Victaulic No. 25</i>		
23 21 13 23-1584 EA 1", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	285.55 50.69	21.40
23 21 13 23-1585 EA 1-1/4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	300.65 52.28	26.20
23 21 13 23-1586 EA 1-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	316.08 53.58	32.16
23 21 13 23-1587 EA 2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	375.98 62.73	41.63
23 21 13 23-1588 EA 2-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	422.42 69.19	50.97
23 21 13 23-1589 EA 3", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	472.50 75.73	62.64
23 21 13 23-1590 EA 4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	632.12 102.13	81.05
23 21 13 23-1591 EA 5", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	833.13 134.86	105.95
23 21 13 23-1592 EA 6", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	1,147.20 189.71	132.53
23 21 13 23-1593 EA 8", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	1,806.32 313.02	160.93
23 21 13 23-1594 EA 10", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	2,588.71 461.46	187.64
23 21 13 23-1595 EA 12", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	3,741.34 680.73	225.25
23 21 13 23-1596 EA 14", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	4,241.03 773.16	250.28
23 21 13 23-1597 EA 16", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	5,398.99 1,004.32	251.69
23 21 13 23-1598 EA 18", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	6,563.85 1,229.54	277.63
23 21 13 23-1599 EA 20", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	9,214.98 1,758.46	281.92

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1600 EA 24", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	14,682.13 2,832.52	346.50
23 21 13 23-1601 Grooved 45 Degree Lateral Wyes <small>(23 21 13 23-1626)</small> Note: Victaulic No. 30		
23 21 13 23-1602 EA 3/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	552.73 94.47	18.54
23 21 13 23-1603 EA 1", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	556.95 94.47	21.40
23 21 13 23-1604 EA 1-1/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	564.09 94.47	26.20
23 21 13 23-1605 EA 1-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	573.01 94.47	32.16
23 21 13 23-1606 EA 2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	587.17 94.47	41.63
23 21 13 23-1607 EA 2-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	601.33 94.47	50.97
23 21 13 23-1608 EA 3", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	547.28 81.62	62.64
23 21 13 23-1609 EA 3-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	876.42 138.28	72.22
23 21 13 23-1610 EA 4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	1,015.69 160.96	81.05
23 21 13 23-1611 EA 5", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	1,465.71 235.24	105.95
23 21 13 23-1612 EA 6", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	2,304.25 379.01	132.53
23 21 13 23-1613 EA 8", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	3,274.05 545.91	160.93
23 21 13 23-1614 EA 10", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	4,562.20 770.54	187.64
23 21 13 23-1615 EA 12", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	5,513.36 931.62	225.25
23 21 13 23-1616 EA 14", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	7,929.44 1,359.76	250.28
23 21 13 23-1617 EA 16", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	9,814.65 1,698.71	251.69
23 21 13 23-1618 EA 18", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	10,965.86 1,898.95	277.63
23 21 13 23-1619 EA 20", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	16,424.81 2,880.39	281.92
23 21 13 23-1620 EA 24", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	25,385.67 4,475.90	346.50
23 21 13 23-1621 Grooved 45 Degree Lateral Reducing Wyes <small>(23 21 13 23-1626)</small> Note: Victaulic No. 30R		
23 21 13 23-1622 EA 3", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	547.28 58.95	62.64
23 21 13 23-1623 EA 4", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,015.69 116.25	81.05
23 21 13 23-1624 EA 5", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,465.71 169.89	105.95
23 21 13 23-1625 EA 6", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,887.13 219.50	132.53
23 21 13 23-1626 EA 8", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	2,678.69 316.87	160.93
23 21 13 23-1627 EA 10", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,266.63 388.08	187.64
23 21 13 23-1628 EA 12", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,965.47 471.61	225.25
23 21 13 23-1629 EA 14", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	4,439.25 528.32	250.28
23 21 13 23-1630 EA 16", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	5,630.52 682.91	251.69
23 21 13 23-1631 EA 18", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	8,482.33 1,048.60	277.63
23 21 13 23-1632 EA 20", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	12,229.45 1,534.88	281.92
23 21 13 23-1633 EA 24", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	19,635.16 2,485.03	346.50
23 21 13 23-1634 Mechanical-T Outlet <small>(23 21 13 23-1526)</small> Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1635 EA 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21 13 23-1636 EA 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	180.64 21.65	46.68
23 21 13 23-1637 EA 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	194.27 25.03	46.68
23 21 13 23-1638 EA 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	194.27	46.68
23 21 13 23-1639 EA 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	192.31	52.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1640 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	192.31	52.52
23 21 13 23-1641 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	228.29	52.52
23 21 13 23-1642 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21 13 23-1643 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	217.22	58.35
23 21 13 23-1644 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21 13 23-1645 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	246.18	58.35
23 21 13 23-1646 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	266.02	58.35
23 21 13 23-1647 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21 13 23-1648 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	283.76	77.81
23 21 13 23-1649 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	306.37	77.81
23 21 13 23-1650 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21 13 23-1651 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	312.72	77.81
23 21 13 23-1652 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	319.07	77.81
23 21 13 23-1653 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	331.24	77.81
23 21 13 23-1654 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21 13 23-1655 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.92	106.98
23 21 13 23-1656 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	417.90	106.98
23 21 13 23-1657 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	431.65	106.98
23 21 13 23-1658 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1659 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	469.77	136.16
23 21 13 23-1660 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	485.90	136.16
23 21 13 23-1661 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	499.53	136.16
23 21 13 23-1662 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	523.73	136.16
23 21 13 23-1663 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1664 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	709.90	180.24
23 21 13 23-1665 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	729.35	180.24
23 21 13 23-1666 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	740.85	180.24
23 21 13 23-1667	Installation-Ready™ Grooved Fittings (23 21 13 23-1440)	
23 21 13 23-1668	Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1667)	
	Note: Victaulic No. 101	
23 21 13 23-1669 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	218.09	12.84
	For Galvanized Fittings, Add	
	65.55	
	For Galvanized Fittings, Add	
	50.85	
23 21 13 23-1670 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	227.83	15.40
	For Galvanized Fittings, Add	
	67.48	
	For Galvanized Fittings, Add	
	52.35	
23 21 13 23-1671 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	237.07	20.54
	For Galvanized Fittings, Add	
	67.96	
	For Galvanized Fittings, Add	
	52.72	
23 21 13 23-1672 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	287.20	25.67
	For Galvanized Fittings, Add	
	81.94	
	For Galvanized Fittings, Add	
	63.56	
23 21 13 23-1673	Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1667)	
	Note: Victaulic No. 103	
23 21 13 23-1674 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	218.09	12.84
	For Galvanized Fittings, Add	
	47.67	
	For Galvanized Fittings, Add	
	50.85	
23 21 13 23-1675 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	227.83	15.40
	For Galvanized Fittings, Add	
	49.08	
	For Galvanized Fittings, Add	
	52.35	
23 21 13 23-1676 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	237.07	20.54
	For Galvanized Fittings, Add	
	49.43	
	For Galvanized Fittings, Add	
	52.72	
23 21 13 23-1677 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	287.20	25.67
	For Galvanized Fittings, Add	
	59.59	
	For Galvanized Fittings, Add	
	63.56	
23 21 13 23-1678	Installation-Ready™ Grooved Tees (23 21 13 23-1667)	
	Note: Victaulic No. 102	
23 21 13 23-1679 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee	332.67	17.11
	For Galvanized Fittings, Add	
	92.02	
	For Galvanized Fittings, Add	
	78.52	
23 21 13 23-1680 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	348.07	20.54
	For Galvanized Fittings, Add	
	95.09	
	For Galvanized Fittings, Add	
	81.14	
23 21 13 23-1681 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee	362.83	27.38
	For Galvanized Fittings, Add	
	96.40	
	For Galvanized Fittings, Add	
	82.26	
23 21 13 23-1682 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	422.86	34.24
	For Galvanized Fittings, Add	
	111.30	
	For Galvanized Fittings, Add	
	94.97	
23 21 13 23-1683	Grooved Fittings (23 21 13 23-1440)	
23 21 13 23-1684	Flanged Adapter Nipple, Grooved (23 21 13 23-1683)	
	Note: Victaulic No. 41 and 45	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1685 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	392.71	15.56
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1686 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	395.31	17.24
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1687 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	401.79	21.66
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1688 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	415.44	30.73
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1689 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	425.18	37.21
For Galvanized Fittings, Add	66.49	
For 300 LB Rating, Add	55.41	
23 21 13 23-1690 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	539.24	44.48
For Galvanized Fittings, Add	85.07	
For 300 LB Rating, Add	70.89	
23 21 13 23-1691 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	653.44	59.91
For Galvanized Fittings, Add	101.46	
For 300 LB Rating, Add	84.55	
23 21 13 23-1692 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	914.10	72.49
For Galvanized Fittings, Add	144.98	
For 300 LB Rating, Add	120.81	
23 21 13 23-1693 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,065.78	97.91
For Galvanized Fittings, Add	165.41	
For 300 LB Rating, Add	137.84	
23 21 13 23-1694 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,467.11	132.53
For Galvanized Fittings, Add	228.32	
For 300 LB Rating, Add	190.27	
23 21 13 23-1695 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,311.16	160.93
For Galvanized Fittings, Add	372.59	
For 300 LB Rating, Add	310.49	
23 21 13 23-1696 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	3,111.68	187.64
For Galvanized Fittings, Add	509.45	
For 300 LB Rating, Add	424.54	
23 21 13 23-1697 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	3,675.34	225.25
For Galvanized Fittings, Add	600.78	
For 300 LB Rating, Add	500.65	
23 21 13 23-1698 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,515.27	250.28
For Galvanized Fittings, Add	925.21	
For 300 LB Rating, Add	771.01	
23 21 13 23-1699 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	6,600.23	375.41
For Galvanized Fittings, Add	1,086.73	
For 300 LB Rating, Add	905.61	
23 21 13 23-1700 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	6,968.33	450.49
For Galvanized Fittings, Add	1,132.73	
For 300 LB Rating, Add	943.94	
23 21 13 23-1701 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	11,606.53	500.54
For Galvanized Fittings, Add	1,954.10	
For 300 LB Rating, Add	1,628.41	
23 21 13 23-1702 Grooved Concentric Reducers (23 21 13 23-1683)		
Note: Victaulic No. 50		
23 21 13 23-1703 EA 1-1/4" x 3/4", Grooved Concentric Reducer.....	417.31	15.56
For Galvanized Fittings, Add	17.33	
23 21 13 23-1704 EA 1-1/4" x 1", Grooved Concentric Reducer.....	436.37	16.47
For Galvanized Fittings, Add	18.12	
23 21 13 23-1705 EA 1-1/2" x 3/4", Grooved Concentric Reducer.....	491.58	17.77
For Galvanized Fittings, Add	55.89	
23 21 13 23-1706 EA 1-1/2" x 1", Grooved Concentric Reducer.....	491.58	18.54
For Galvanized Fittings, Add	11.97	
23 21 13 23-1707 EA 1-1/2" x 1-1/4", Grooved Concentric Reducer.....	414.60	19.45
For Galvanized Fittings, Add	46.33	
23 21 13 23-1708 EA 2" x 3/4", Grooved Concentric Reducer.....	131.35	21.14
For Galvanized Fittings, Add	11.97	
23 21 13 23-1709 EA 2" x 1", Grooved Concentric Reducer.....	132.65	22.04
For Galvanized Fittings, Add	11.97	
23 21 13 23-1710 EA 2" x 1-1/4", Grooved Concentric Reducer.....	143.95	22.95
For Galvanized Fittings, Add	13.17	
23 21 13 23-1711 EA 2" x 1-1/2", Grooved Concentric Reducer.....	137.91	25.54
For Galvanized Fittings, Add	11.97	
23 21 13 23-1712 EA 2-1/2" x 3/4", Grooved Concentric Reducer.....	846.21	23.86
For Galvanized Fittings, Add	97.41	
23 21 13 23-1713 EA 2-1/2" x 1", Grooved Concentric Reducer.....	672.79	24.77
For Galvanized Fittings, Add	76.42	
23 21 13 23-1714 EA 2-1/2" x 1-1/4", Grooved Concentric Reducer.....	613.83	25.54
For Galvanized Fittings, Add	69.18	
23 21 13 23-1715 EA 2-1/2" x 1-1/2", Grooved Concentric Reducer.....	141.72	28.14
For Galvanized Fittings, Add	11.97	
23 21 13 23-1716 EA 2-1/2" x 2", Grooved Concentric Reducer.....	146.90	31.51
For Galvanized Fittings, Add	11.97	
23 21 13 23-1717 EA 3" x 3/4", Grooved Concentric Reducer.....	857.24	27.75
For Galvanized Fittings, Add	123.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1718 EA 3" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	152.71 16.72	28.53
23 21 13 23-1719 EA 3" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	675.85 96.03	29.44
23 21 13 23-1720 EA 3" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	634.39 89.23	31.51
23 21 13 23-1721 EA 3" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	139.86 13.28	35.01
23 21 13 23-1722 EA 3" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	182.94 18.29	41.75
23 21 13 23-1723 EA 3-1/2" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	195.68 19.49	45.00
23 21 13 23-1724 EA 4" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	185.37 22.67	35.40
23 21 13 23-1725 EA 4" x 1-1/4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,099.57 179.23	36.31
23 21 13 23-1726 EA 4" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	856.71 137.03	38.51
23 21 13 23-1727 EA 4" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	179.18 19.94	42.01
23 21 13 23-1728 EA 4" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	213.20 25.00	45.00
23 21 13 23-1729 EA 4" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	218.38 25.00	48.50
23 21 13 23-1730 EA 4" x 3-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	223.57 25.00	51.87
23 21 13 23-1731 EA 5" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,544.06 252.24	48.88
23 21 13 23-1732 EA 5" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,218.95 195.70	51.87
23 21 13 23-1733 EA 5" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	253.61 29.26	55.37
23 21 13 23-1734 EA 5" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	297.13 34.94	62.24
23 21 13 23-1735 EA 6" x 1", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	350.09 50.56	52.78
23 21 13 23-1736 EA 6" x 1-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,630.05 288.56	55.76
23 21 13 23-1737 EA 6" x 2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	359.79 50.56	59.26
23 21 13 23-1738 EA 6" x 2-1/2", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,648.60 290.21	62.24
23 21 13 23-1739 EA 6" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	369.54 50.56	65.75
23 21 13 23-1740 EA 6" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	344.93 44.04	72.62
23 21 13 23-1741 EA 6" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	468.43 65.14	79.62
23 21 13 23-1742 EA 8" x 3", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	595.73 90.35	74.44
23 21 13 23-1743 EA 8" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	606.08 90.35	81.31
23 21 13 23-1744 EA 8" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	616.48 90.35	88.18
23 21 13 23-1745 EA 8" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	765.29 115.22	98.55
23 21 13 23-1746 EA 10" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,288.37 215.12	90.38
23 21 13 23-1747 EA 10" x 5", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,687.17 474.20	97.26
23 21 13 23-1748 EA 10" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,422.15 235.25	107.63
23 21 13 23-1749 EA 10" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,435.09 235.25	116.32
23 21 13 23-1750 EA 12" x 4", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	3,970.61 572.45	102.96
23 21 13 23-1751 EA 12" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	1,683.86 225.55	120.21
23 21 13 23-1752 EA 12" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,451.92 338.81	128.90
23 21 13 23-1753 EA 12" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	2,465.61 338.81	137.97
23 21 13 23-1754 EA 14" x 6", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,858.04 235.28	129.55
23 21 13 23-1755 EA 14" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,705.64 138.10	138.23
23 21 13 23-1756 EA 14" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,019.00 116.60	147.31
23 21 13 23-1757 EA 14" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	4,037.76 116.60	159.76
23 21 13 23-1758 EA 16" x 8", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,151.98 212.78	147.44
23 21 13 23-1759 EA 16" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,642.71 196.72	156.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
23 21	13 23-1760	EA	16" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,148.94 180.99	169.10	
23 21	13 23-1761	EA	16" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	6,162.95 180.99	178.43	
23 21	13 23-1762	EA	18" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	9,296.20 277.79	165.20	
23 21	13 23-1763	EA	18" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,425.04 250.47	177.66	
23 21	13 23-1764	EA	18" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,666.42 226.75	187.00	
23 21	13 23-1765	EA	18" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,680.43 226.75	196.46	
23 21	13 23-1766	EA	20" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	10,228.54 306.22	169.49	
23 21	13 23-1767	EA	20" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,776.84 261.07	182.07	
23 21	13 23-1768	EA	20" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,790.86 261.07	191.40	
23 21	13 23-1769	EA	20" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	7,845.22 231.62	200.61	
23 21	13 23-1770	EA	20" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	8,359.10 246.99	209.30	
23 21	13 23-1771	EA	24" x 10", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	22,509.37 682.36	188.54	
23 21	13 23-1772	EA	24" x 12", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	21,991.49 665.88	201.13	
23 21	13 23-1773	EA	24" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,173.16 578.93	210.34	
23 21	13 23-1774	EA	24" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	19,187.26 578.93	219.80	
23 21	13 23-1775	EA	24" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	16,438.52 494.15	228.35	
23 21	13 23-1776	EA	24" x 20", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	15,019.36 450.38	232.77	
23 21	13 23-1777	Grooved Eccentric Reducers (23 21 13 23-1683)				
			Note: Victaulic No. 51			
23 21	13 23-1778	EA	1-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	507.63 57.82	17.77	
23 21	13 23-1779	EA	1-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	462.10 52.19	18.54	
23 21	13 23-1780	EA	1-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	453.93 51.05	19.45	
23 21	13 23-1781	EA	2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	966.51 112.36	21.14	
23 21	13 23-1782	EA	2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	512.54 57.63	22.04	
23 21	13 23-1783	EA	2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	560.01 63.18	22.95	
23 21	13 23-1784	EA	2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	478.34 52.89	25.54	
23 21	13 23-1785	EA	2-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,255.97 146.67	23.86	
23 21	13 23-1786	EA	2-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,173.84 136.64	24.77	
23 21	13 23-1787	EA	2-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	698.54 79.36	25.54	
23 21	13 23-1788	EA	2-1/2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	565.28 62.88	28.14	
23 21	13 23-1789	EA	2-1/2" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	258.05 25.33	31.51	
23 21	13 23-1790	EA	3" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,262.14 146.57	28.53	
23 21	13 23-1791	EA	3" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,147.95 132.69	29.44	
23 21	13 23-1792	EA	3" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	652.42 72.73	31.51	
23 21	13 23-1793	EA	3" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	294.69 29.11	35.01	
23 21	13 23-1794	EA	3" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	304.75 29.11	41.75	
23 21	13 23-1795	EA	3-1/2" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,407.19 161.04	45.00	
23 21	13 23-1796	EA	4" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,524.85 423.89	35.40	
23 21	13 23-1797	EA	4" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,552.57 256.37	38.51	
23 21	13 23-1798	EA	4" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	359.00 50.78	42.01	
23 21	13 23-1799	EA	4" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	363.55 50.78	45.00	
23 21	13 23-1800	EA	4" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	368.73 50.78	48.50	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Piping and Pumps	23 20
Hydronic Piping and Pumps	23 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1801 EA 5" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,721.64 282.69	48.88
23 21 13 23-1802 EA 5" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,482.17 240.85	51.87
23 21 13 23-1803 EA 5" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,439.47 232.63	55.37
23 21 13 23-1804 EA 5" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	496.68 69.17	62.24
23 21 13 23-1805 EA 6" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,641.56 478.15	52.78
23 21 13 23-1806 EA 6" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,425.66 436.06	59.26
23 21 13 23-1807 EA 6" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,876.02 519.24	62.24
23 21 13 23-1808 EA 6" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	635.52 100.20	65.75
23 21 13 23-1809 EA 6" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	578.94 87.70	72.62
23 21 13 23-1810 EA 6" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	683.11 105.20	79.62
23 21 13 23-1811 EA 8" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,826.69 506.65	74.44
23 21 13 23-1812 EA 8" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,494.76 442.78	81.31
23 21 13 23-1813 EA 8" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,341.53 412.25	88.18
23 21 13 23-1814 EA 8" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,100.86 177.84	98.55
23 21 13 23-1815 EA 10" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,489.85 812.52	90.38
23 21 13 23-1816 EA 10" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,248.31 765.51	97.26
23 21 13 23-1817 EA 10" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	3,255.07 577.27	107.63
23 21 13 23-1818 EA 10" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,792.74 488.58	116.32
23 21 13 23-1819 EA 12" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,581.89 668.12	102.96
23 21 13 23-1820 EA 12" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,313.00 623.64	120.21
23 21 13 23-1821 EA 12" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	4,220.24 607.68	128.90
23 21 13 23-1822 EA 12" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	3,813.92 544.30	137.97
23 21 13 23-1823 EA 14" x 6", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,622.01 320.13	129.55
23 21 13 23-1824 EA 14" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,873.98 204.67	138.23
23 21 13 23-1825 EA 14" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,567.11 194.83	147.31
23 21 13 23-1826 EA 14" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	6,585.87 194.83	159.76
23 21 13 23-1827 EA 16" x 8", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	11,737.29 353.55	147.44
23 21 13 23-1828 EA 16" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,876.54 326.70	156.52
23 21 13 23-1829 EA 16" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,252.93 306.98	169.10
23 21 13 23-1830 EA 16" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	10,266.94 306.98	178.43
23 21 13 23-1831 EA 18" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	14,721.54 444.35	165.20
23 21 13 23-1832 EA 18" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,857.35 417.24	177.66
23 21 13 23-1833 EA 18" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,628.46 379.08	187.00
23 21 13 23-1834 EA 18" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,642.47 379.08	196.46
23 21 13 23-1835 EA 20" x 10", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	19,327.20 585.55	169.49
23 21 13 23-1836 EA 20" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	14,381.07 433.12	182.07
23 21 13 23-1837 EA 20" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,513.10 406.04	191.40
23 21 13 23-1838 EA 20" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	13,312.91 399.47	200.61
23 21 13 23-1839 EA 20" x 18", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	12,827.46 384.17	209.30
23 21 13 23-1840 EA 24" x 12", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	27,912.34 847.65	201.13
23 21 13 23-1841 EA 24" x 14", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	23,847.65 722.44	210.34
23 21 13 23-1842 EA 24" x 16", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	23,861.75 722.44	219.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1843 EA 24" x 18", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	22,538.81 681.43	228.35
23 21 13 23-1844 EA 24" x 20", Grooved Eccentric Reducer..... <i>For Galvanized Fittings, Add</i>	20,604.39 621.84	232.77
23 21 13 23-1845 Close Nipple, Grooved (23 21 13 23-1683) Note: Victaulic No. 143		
23 21 13 23-1846 EA 1-1/4" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	58.56 5.87 4.89 8.35	17.11
23 21 13 23-1847 EA 1-1/2" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	67.96 6.40 5.33 9.10	21.40
23 21 13 23-1848 EA 2" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	85.64 7.71 6.43 10.97	28.24
23 21 13 23-1849 EA 2-1/2" Ductile Iron, Grooved, Close Nipple <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	102.50 9.11 7.59 12.96	34.24
23 21 13 23-1850 Grooved Couplings (23 21 13 23-1440)		
23 21 13 23-1851 Flexible Grooved Coupling (23 21 13 23-1850) Note: Victaulic Style 77		
23 21 13 23-1852 EA 3/4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	58.16 13.32	7.00
23 21 13 23-1853 EA 1" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	58.16 13.32	7.00
23 21 13 23-1854 EA 1-1/4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	76.51 17.72	8.81
23 21 13 23-1855 EA 1-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	84.97 19.36	10.50
23 21 13 23-1856 EA 2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	94.27 20.46	14.14
23 21 13 23-1857 EA 2-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	113.29 24.49	17.24
23 21 13 23-1858 EA 3" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	118.29 24.49	20.61
23 21 13 23-1859 EA 3-1/2" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	177.15 39.46	24.12
23 21 13 23-1860 EA 4" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	182.22 39.46	27.50
23 21 13 23-1861 EA 5" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	267.68 60.50	34.50
23 21 13 23-1862 EA 6" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	322.94 71.51	45.00
23 21 13 23-1863 EA 8" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	496.72 116.57	53.68
23 21 13 23-1864 EA 10" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	788.39 193.73	64.32
23 21 13 23-1865 EA 12" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	893.32 220.58	70.41
23 21 13 23-1866 EA 14" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,097.74 267.97	93.89
23 21 13 23-1867 EA 16" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,424.18 351.49	112.69
23 21 13 23-1868 EA 18" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	1,657.78 411.65	125.13
23 21 13 23-1869 EA 20" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	2,523.88 647.59	140.83
23 21 13 23-1870 EA 24" Grooved Standard Coupling <i>For Galvanized Fittings, Add</i>	2,796.11 710.18	173.24
23 21 13 23-1871 Zero-Flex® Rigid Coupling (23 21 13 23-1850) Note: Victaulic Style 07		
23 21 13 23-1872 EA 1" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	76.75 16.21	7.00
23 21 13 23-1873 EA 1-1/4" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	79.40 16.21	8.81
23 21 13 23-1874 EA 1-1/2" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	81.98 16.21	10.50
23 21 13 23-1875 EA 2" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	89.04 16.62	14.14
23 21 13 23-1876 EA 2-1/2" Grooved Rigid Coupling <i>For Galvanized Fittings, Add</i>	104.04 19.16	17.24
23 21 13 23-1877 EA 3" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	109.04 19.16	20.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1878 EA 3-1/2" Grooved Rigid Coupling	127.63	24.12
<i>For Galvanized Fittings, Add</i>	22.39	
23 21 13 23-1879 EA 4" Grooved Rigid Coupling	170.82	27.50
<i>For Galvanized Fittings, Add</i>	31.73	
23 21 13 23-1880 EA 5" Grooved Rigid Coupling	219.83	34.50
<i>For Galvanized Fittings, Add</i>	41.21	
23 21 13 23-1881 EA 6" Grooved Rigid Coupling	292.38	45.00
<i>For Galvanized Fittings, Add</i>	55.09	
23 21 13 23-1882 EA 8" Grooved Rigid Coupling	434.63	53.68
<i>For Galvanized Fittings, Add</i>	86.79	
23 21 13 23-1883 EA 10" Grooved Rigid Coupling	731.20	64.32
<i>For Galvanized Fittings, Add</i>	155.51	
23 21 13 23-1884 EA 12" Grooved Rigid Coupling	815.80	70.41
<i>For Galvanized Fittings, Add</i>	174.02	
23 21 13 23-1885 EA 14" Grooved Rigid Coupling	1,068.68	93.89
<i>For Galvanized Fittings, Add</i>	227.35	
23 21 13 23-1886 EA 16" Grooved Rigid Coupling	1,379.13	112.69
<i>For Galvanized Fittings, Add</i>	296.52	
23 21 13 23-1887 EA 18" Grooved Rigid Coupling	1,586.71	125.13
<i>For Galvanized Fittings, Add</i>	342.78	
23 21 13 23-1888 EA 20" Grooved Rigid Coupling	1,876.78	140.83
<i>For Galvanized Fittings, Add</i>	408.10	
23 21 13 23-1889 EA 24" Grooved Rigid Coupling	2,713.27	173.24
<i>For Galvanized Fittings, Add</i>	601.11	
23 21 13 23-1890 Large Diameter Grooved Coupling <small>(23 21 13 23-1850)</small>		
Note: Victaulic Style 770		
23 21 13 23-1891 EA 28" Grooved Coupling.....	2,995.75	34.50
<i>For Galvanized Fittings, Add</i>	412.18	
23 21 13 23-1892 EA 30" Grooved Coupling.....	3,457.15	45.00
<i>For Galvanized Fittings, Add</i>	474.55	
23 21 13 23-1893 EA 32" Grooved Coupling.....	5,156.56	53.68
<i>For Galvanized Fittings, Add</i>	710.66	
23 21 13 23-1894 EA 36" Grooved Coupling.....	6,859.16	64.32
<i>For Galvanized Fittings, Add</i>	946.78	
23 21 13 23-1895 EA 42" Grooved Coupling.....	13,782.41	70.41
<i>For Galvanized Fittings, Add</i>	1,914.76	
23 21 13 23-1896 Flexible Coupling <small>(23 21 13 23-1850)</small>		
Note: Victaulic Style 75		
23 21 13 23-1897 EA 1-1/2" Grooved Flexible Coupling	75.96	10.50
<i>For Galvanized Fittings, Add</i>	15.40	
23 21 13 23-1898 EA 2" Grooved Flexible Coupling	82.87	14.14
<i>For Galvanized Fittings, Add</i>	15.79	
23 21 13 23-1899 EA 2-1/2" Grooved Flexible Coupling	97.31	17.24
<i>For Galvanized Fittings, Add</i>	18.30	
23 21 13 23-1900 EA 3" Grooved Flexible Coupling	113.94	20.61
<i>For Galvanized Fittings, Add</i>	21.28	
23 21 13 23-1901 EA 3-1/2" Grooved Flexible Coupling	153.98	24.12
<i>For Galvanized Fittings, Add</i>	30.14	
23 21 13 23-1902 EA 4" Grooved Flexible Coupling	159.05	27.50
<i>For Galvanized Fittings, Add</i>	30.14	
23 21 13 23-1903 EA 5" Grooved Flexible Coupling	221.51	34.50
<i>For Galvanized Fittings, Add</i>	43.49	
23 21 13 23-1904 EA 6" Grooved Flexible Coupling	272.20	45.00
<i>For Galvanized Fittings, Add</i>	52.39	
23 21 13 23-1905 EA 8" Grooved Flexible Coupling	402.10	53.68
<i>For Galvanized Fittings, Add</i>	82.36	
23 21 13 23-1906 Installation-Ready™ Coupling <small>(23 21 13 23-1850)</small>		
Note: Victaulic Style 009N		
23 21 13 23-1907 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling	67.39	6.55
<i>For Galvanized Fittings, Add</i>	14.71	
23 21 13 23-1908 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling	70.51	7.83
<i>For Galvanized Fittings, Add</i>	15.01	
23 21 13 23-1909 EA 2" Ductile Iron, Installation-Ready™ Coupling	82.29	10.52
<i>For Galvanized Fittings, Add</i>	16.98	
23 21 13 23-1910 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling	95.75	12.76
<i>For Galvanized Fittings, Add</i>	19.56	
23 21 13 23-1911 EA 3" Ductile Iron, Installation-Ready™ Coupling	109.69	15.32
<i>For Galvanized Fittings, Add</i>	22.14	
23 21 13 23-1912 EA 4" Ductile Iron, Installation-Ready™ Coupling	152.44	20.45
<i>For Galvanized Fittings, Add</i>	31.09	
23 21 13 23-1913 EA 5" Ductile Iron, Installation-Ready™ Coupling	237.41	25.59
<i>For Galvanized Fittings, Add</i>	50.85	
23 21 13 23-1914 EA 6" Ductile Iron, Installation-Ready™ Coupling	288.06	33.46
<i>For Galvanized Fittings, Add</i>	60.76	
23 21 13 23-1915 EA 8" Ductile Iron, Installation-Ready™ Coupling	456.86	39.80
<i>For Galvanized Fittings, Add</i>	101.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1916 Grooved Strainers And Suction Diffusers (23 21 13 23-1440)		
23 21 13 23-1917 Grooved Wye Strainers (23 21 13 23-1916)		
Note: Victaulic Style 732		
23 21 13 23-1918 EA 2" Grooved Wye Strainer	1,562.10	28.53
23 21 13 23-1919 EA 2-1/2" Grooved Wye Strainer	1,647.95	34.62
23 21 13 23-1920 EA 3" Grooved Wye Strainer	1,855.52	41.50
23 21 13 23-1921 EA 4" Grooved Wye Strainer	2,112.09	55.37
23 21 13 23-1922 EA 5" Grooved Wye Strainer	3,043.11	69.25
23 21 13 23-1923 EA 6" Grooved Wye Strainer	3,326.68	89.99
23 21 13 23-1924 EA 8" Grooved Wye Strainer	5,053.68	107.25
23 21 13 23-1925 EA 10" Grooved Wye Strainer	8,053.13	125.39
23 21 13 23-1926 EA 12" Grooved Wye Strainer	13,965.56	150.56
23 21 13 23-1927 Grooved Tee Type Strainers (23 21 13 23-1916)		
Note: Victaulic Style 730		
23 21 13 23-1928 EA 1-1/2" Grooved Tee Type Strainer	1,204.85	21.66
23 21 13 23-1929 EA 2" Grooved Tee Type Strainer	1,543.35	28.53
23 21 13 23-1930 EA 2-1/2" Grooved Tee Type Strainer	1,628.45	34.62
23 21 13 23-1931 EA 3" Grooved Tee Type Strainer	1,833.50	41.50
23 21 13 23-1932 EA 4" Grooved Tee Type Strainer	2,087.12	55.37
23 21 13 23-1933 EA 5" Grooved Tee Type Strainer	3,006.76	69.25
23 21 13 23-1934 EA 6" Grooved Tee Type Strainer	3,287.48	89.99
23 21 13 23-1935 EA 8" Grooved Tee Type Strainer	4,992.99	107.25
23 21 13 23-1936 EA 10" Grooved Tee Type Strainer	7,284.99	125.39
23 21 13 23-1937 EA 12" Grooved Tee Type Strainer	9,361.40	150.56
23 21 13 23-1938 EA 14" Grooved Tee Type Strainer	32,819.01	169.49
23 21 13 23-1939 EA 16" Grooved Tee Type Strainer	40,754.66	187.64
23 21 13 23-1940 EA 18" Grooved Tee Type Strainer	53,541.45	205.01
23 21 13 23-1941 Grooved Suction Diffuser (23 21 13 23-1916)		
Note: Victaulic Style 731		
23 21 13 23-1942 EA 2-1/2" Grooved x 2" Flanged Suction Diffuser	3,163.90	32.03
23 21 13 23-1943 EA 3" Grooved x 2" Flanged Suction Diffuser	3,359.81	35.40
23 21 13 23-1944 EA 3" Grooved x 2-1/2" Flanged Suction Diffuser	2,439.68	41.50
23 21 13 23-1945 EA 3" Grooved x 3" Flanged Suction Diffuser	2,476.14	45.00
23 21 13 23-1946 EA 4" Grooved x 2-1/2" Flanged Suction Diffuser	2,679.42	45.00
23 21 13 23-1947 EA 4" Grooved x 3" Flanged Suction Diffuser	2,890.70	48.50
23 21 13 23-1948 EA 4" Grooved x 4" Flanged Suction Diffuser	3,336.74	48.50
23 21 13 23-1949 EA 5" Grooved x 4" Flanged Suction Diffuser	3,731.31	62.24
23 21 13 23-1950 EA 5" Grooved x 5" Flanged Suction Diffuser	3,921.10	65.75
23 21 13 23-1951 EA 6" Grooved x 4" Flanged Suction Diffuser	3,987.75	72.62
23 21 13 23-1952 EA 6" Grooved x 5" Flanged Suction Diffuser	4,759.31	79.62
23 21 13 23-1953 EA 6" Grooved x 6" Flanged Suction Diffuser	4,944.82	84.81
23 21 13 23-1954 EA 8" Grooved x 5" Flanged Suction Diffuser	5,074.67	88.18
23 21 13 23-1955 EA 8" Grooved x 6" Flanged Suction Diffuser	5,359.55	98.55
23 21 13 23-1956 EA 8" Grooved x 8" Flanged Suction Diffuser	9,129.52	107.25
23 21 13 23-1957 EA 10" Grooved x 8" Flanged Suction Diffuser	10,294.47	115.93
23 21 13 23-1958 EA 10" Grooved x 10" Flanged Suction Diffuser	12,374.97	120.21
23 21 13 23-1959 EA 12" Grooved x 10" Flanged Suction Diffuser	14,641.68	138.36
23 21 13 23-1960 EA 12" Grooved x 12" Flanged Suction Diffuser	20,298.38	147.06
23 21 13 23-1961 EA 14" Grooved x 10" Flanged Suction Diffuser	18,906.71	147.06
23 21 13 23-1962 EA 14" Grooved x 12" Flanged Suction Diffuser	21,113.02	160.02
23 21 13 23-1963 EA 14" Grooved x 14" Flanged Suction Diffuser	25,601.55	169.49
23 21 13 23-1964 EA 16" Grooved x 14" Flanged Suction Diffuser	26,359.77	178.17
23 21 13 23-1965 Grooved Steel Valves (23 21 13 23-1440)		
23 21 13 23-1966 Grooved Butterfly Valves With Standard Trim (23 21 13 23-1965)		
23 21 13 23-1967 EA 1-1/2" Butterfly Valve, Grooved, With Standard Trim	281.02	14.14
23 21 13 23-1968 EA 2" Butterfly Valve, Grooved, With Standard Trim	287.72	18.54
23 21 13 23-1969 EA 3" Butterfly Valve, Grooved, With Standard Trim	471.26	27.50
23 21 13 23-1970 EA 4" Butterfly Valve, Grooved, With Standard Trim	632.78	36.18
23 21 13 23-1971 EA 6" Butterfly Valve, Grooved, With Standard Trim	1,375.66	59.26
23 21 13 23-1972 EA 8" Butterfly Valve, Grooved, With Standard Trim	1,906.80	83.38
23 21 13 23-1973 EA 10" Butterfly Valve, Grooved, With Standard Trim	2,860.00	112.69
23 21 13 23-1974 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1965)		
23 21 13 23-1975 EA 1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	420.22	14.14
23 21 13 23-1976 EA 2" Butterfly Valve, Grooved, With Stainless Steel Trim	426.91	18.54
23 21 13 23-1977 EA 3" Butterfly Valve, Grooved, With Stainless Steel Trim	659.95	27.50
23 21 13 23-1978 EA 4" Butterfly Valve, Grooved, With Stainless Steel Trim	840.03	36.18
23 21 13 23-1979 EA 6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,604.56	59.26
23 21 13 23-1980 EA 8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,661.55	83.38
23 21 13 23-1981 EA 10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,190.11	112.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1982	Grooved Ball Valves With Standard Trim And Handle <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 721		
23 21 13 23-1983 EA 1-1/2" Ball Valve, Grooved, With Standard Trim.....	237.76	13.87
23 21 13 23-1984 EA 2" Ball Valve, Grooved, With Standard Trim.....	273.05	19.06
23 21 13 23-1985 EA 2-1/2" Ball Valve, Grooved, With Standard Trim.....	617.87	23.34
23 21 13 23-1986 EA 3" Ball Valve, Grooved, With Standard Trim.....	1,010.15	27.62
23 21 13 23-1987 EA 4" Ball Valve, Grooved, With Standard Trim.....	1,571.16	36.31
23 21 13 23-1988 EA 6" Ball Valve, Grooved, With Standard Trim.....	4,869.90	59.65
23 21 13 23-1989	Grooved Ball Valves With Stainless Steel Trim And Handle <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 721		
23 21 13 23-1990 EA 1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	253.00	13.87
23 21 13 23-1991 EA 2" Ball Valve, Grooved, With Stainless Steel Trim.....	431.31	19.06
23 21 13 23-1992 EA 2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,116.87	23.34
23 21 13 23-1993 EA 3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,443.57	27.62
23 21 13 23-1994 EA 4" Ball Valve, Grooved, With Stainless Steel Trim.....	1,971.68	36.31
23 21 13 23-1995 EA 6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,366.19	59.65
23 21 13 23-1996	Grooved Check Valves <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 712		
23 21 13 23-1997 EA 2" Check Valve, Grooved.....	360.18	19.06
23 21 13 23-1998 EA 2-1/2" Check Valve, Grooved.....	582.68	23.34
23 21 13 23-1999 EA 3" Check Valve, Grooved.....	679.03	27.62
23 21 13 23-2000 EA 4" Check Valve, Grooved.....	961.69	36.31
23 21 13 23-2001	Grooved Vic-Check Check Valves <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 716		
23 21 13 23-2002 EA 2-1/2" "Vic-Check" Check Valve, Grooved.....	466.95	23.34
23 21 13 23-2003 EA 3" "Vic-Check" Check Valve, Grooved.....	473.26	27.62
23 21 13 23-2004 EA 4" "Vic-Check" Check Valve, Grooved.....	593.58	36.31
23 21 13 23-2005 EA 6" "Vic-Check" Check Valve, Grooved.....	1,153.91	59.65
23 21 13 23-2006 EA 8" "Vic-Check" Check Valve, Grooved.....	1,579.31	82.99
23 21 13 23-2007 EA 10" "Vic-Check" Check Valve, Grooved.....	4,380.00	112.43
23 21 13 23-2008 EA 12" "Vic-Check" Check Valve, Grooved.....	5,185.74	129.80
23 21 13 23-2009	Grooved Plug Valves With Lever Operator <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 377		
23 21 13 23-2010 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	601.32	27.62
23 21 13 23-2011 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	670.59	36.31
23 21 13 23-2012 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,194.12	59.65
23 21 13 23-2013	Grooved Plug Valve With Gear Operator <small>(23 21 13 23-1965)</small>	
Note: Victaulic No. 377		
23 21 13 23-2014 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,052.98	27.62
23 21 13 23-2015 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,122.28	36.31
23 21 13 23-2016 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,645.82	59.65
23 21 13 23-2017 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,203.39	82.99
23 21 13 23-2018 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	3,447.22	112.43
23 21 13 23-2019 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	4,970.43	129.80
23 21 13 23-2020	Prepare Pipe For Groove <small>(23 21 13 23-1440)</small>	
23 21 13 23-2021	Cut Grooved Pipe <small>(23 21 13 23-2020)</small>	
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2022 EA Cut 3/4" Groove Pipe.....	13.58	
23 21 13 23-2023 EA Cut 1" Groove Pipe.....	14.75	
23 21 13 23-2024 EA Cut 1-1/4" Groove Pipe.....	16.65	
23 21 13 23-2025 EA Cut 1-1/2" Groove Pipe.....	18.11	
23 21 13 23-2026 EA Cut 2" Groove Pipe.....	19.86	
23 21 13 23-2027 EA Cut 2-1/2" Groove Pipe.....	21.51	
23 21 13 23-2028 EA Cut 3" Groove Pipe.....	23.46	
23 21 13 23-2029 EA Cut 3-1/2" Groove Pipe.....	24.88	
23 21 13 23-2030 EA Cut 4" Groove Pipe.....	26.47	
23 21 13 23-2031 EA Cut 5" Groove Pipe.....	28.68	
23 21 13 23-2032 EA Cut 6" Groove Pipe.....	29.50	
23 21 13 23-2033 EA Cut 8" Groove Pipe.....	38.24	
23 21 13 23-2034 EA Cut 10" Groove Pipe.....	54.34	
23 21 13 23-2035 EA Cut 12" Groove Pipe.....	68.83	
23 21 13 23-2036 EA Cut 14" Groove Pipe.....	103.24	
23 21 13 23-2037 EA Cut 16" Groove Pipe.....	108.67	
23 21 13 23-2038 EA Cut 18" Groove Pipe.....	114.72	
23 21 13 23-2039 EA Cut 20" Groove Pipe.....	121.46	
23 21 13 23-2040 EA Cut 24" Groove Pipe.....	137.66	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 13 23-2041

Roll Grooved Pipe (23 21 13 23-2041)

Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.

23 21 13 23-2042	EA	Roll 3/4" Groove	7.77	
23 21 13 23-2043	EA	Roll 1" Groove	9.05	
23 21 13 23-2044	EA	Roll 1-1/4" Groove	10.32	
23 21 13 23-2045	EA	Roll 1-1/2" Groove	11.60	
23 21 13 23-2046	EA	Roll 2" Groove	17.80	
23 21 13 23-2047	EA	Roll 2-1/2" Groove	18.77	
23 21 13 23-2048	EA	Roll 3" Groove	20.64	
23 21 13 23-2049	EA	Roll 3-1/2" Groove	21.96	
23 21 13 23-2050	EA	Roll 4" Groove	24.01	
23 21 13 23-2051	EA	Roll 5" Groove	24.58	
23 21 13 23-2052	EA	Roll 6" Groove	25.82	
23 21 13 23-2053	EA	Roll 8" Groove	31.29	
23 21 13 23-2054	EA	Roll 10" Groove	35.60	
23 21 13 23-2055	EA	Roll 12" Groove	44.89	
23 21 13 23-2056	EA	Roll 14" Groove	68.83	
23 21 13 23-2057	EA	Roll 16" Groove	73.74	
23 21 13 23-2058	EA	Roll 18" Groove	76.48	
23 21 13 23-2059	EA	Roll 20" Groove	82.60	
23 21 13 23-2060	EA	Roll 24" Groove	89.78	

23 21 13 23-2061

Standard Gaskets (23 21 13 23-2061)

Note: For use on replacement of existing gaskets.

23 21 13 23-2062	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	39.71	
23 21 13 23-2063	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	40.79	
23 21 13 23-2064	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	42.49	
23 21 13 23-2065	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	46.49	
23 21 13 23-2066	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	47.26	
23 21 13 23-2067	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	55.94	
23 21 13 23-2068	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	61.19	
23 21 13 23-2069	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	76.10	
23 21 13 23-2070	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	76.72	
23 21 13 23-2071	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	96.91	
23 21 13 23-2072	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	104.36	
23 21 13 23-2073	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	142.40	
23 21 13 23-2074	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	179.82	
23 21 13 23-2075	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	211.15	
23 21 13 23-2076	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	293.99	
23 21 13 23-2077	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	396.88	
23 21 13 23-2078	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	472.98	
23 21 13 23-2079	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	709.53	
23 21 13 23-2080	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	976.16	

23 21 13 23-2081

Copper Grooved-Joint Pipe Fittings (23 21 13 23)

Note: Couplings are not included with fittings.

23 21 13 23-2082

Grooved Fittings (23 21 13 23-2081)

23 21 13 23-2083

Grooved 90 Degree Elbows (23 21 13 23-2082)

23 21 13 23-2084	EA	2" Copper 90 Degree Elbow, Grooved	76.19	21.14
23 21 13 23-2085	EA	2-1/2" Copper 90 Degree Elbow, Grooved	88.21	25.81
23 21 13 23-2086	EA	3" Copper 90 Degree Elbow, Grooved	113.84	31.25
23 21 13 23-2087	EA	4" Copper 90 Degree Elbow, Grooved	200.25	41.24
23 21 13 23-2088	EA	5" Copper 90 Degree Elbow, Grooved	436.72	51.61
23 21 13 23-2089	EA	6" Copper 90 Degree Elbow, Grooved	667.25	67.56
23 21 13 23-2090	EA	8" Copper 90 Degree Elbow, Grooved	1,159.86	80.39

23 21 13 23-2091

Grooved 45 Degree Elbows (23 21 13 23-2082)

23 21 13 23-2092	EA	2" Copper 45 Degree Elbow, Grooved	76.19	21.14
23 21 13 23-2093	EA	2-1/2" Copper 45 Degree Elbow, Grooved	88.21	25.81
23 21 13 23-2094	EA	3" Copper 45 Degree Elbow, Grooved	113.84	31.25
23 21 13 23-2095	EA	4" Copper 45 Degree Elbow, Grooved	200.25	41.24
23 21 13 23-2096	EA	5" Copper 45 Degree Elbow, Grooved	436.72	51.61
23 21 13 23-2097	EA	6" Copper 45 Degree Elbow, Grooved	667.25	67.56
23 21 13 23-2098	EA	8" Copper 45 Degree Elbow, Grooved	1,159.86	80.39

23 21 13 23-2099

Grooved Tees (23 21 13 23-2082)

23 21 13 23-2100	EA	2" Copper Tee, Grooved	117.75	31.12
23 21 13 23-2101	EA	2-1/2" Copper Tee, Grooved	135.30	38.25
23 21 13 23-2102	EA	3" Copper Tee, Grooved	181.39	46.94
23 21 13 23-2103	EA	4" Copper Tee, Grooved	313.37	60.69
23 21 13 23-2104	EA	5" Copper Tee, Grooved	1,003.31	79.36
23 21 13 23-2105	EA	6" Copper Tee, Grooved	862.06	99.33
23 21 13 23-2106	EA	8" Copper Tee, Grooved	1,425.83	120.60



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2107 Grooved Reducing Tees (23 21 13 23-2082)					
		EA	2-1/2" Copper Tee, Reducing, Grooved.....	164.17	38.25
		EA	3" Copper Tee, Reducing, Grooved.....	242.68	46.94
		EA	4" Copper Tee, Reducing, Grooved.....	373.58	60.82
		EA	5" Copper Tee, Reducing, Grooved.....	928.31	79.49
		EA	6" Copper Tee, Reducing, Grooved.....	1,138.10	99.33
23 21 13 23-2113 Grooved X Cup Reducing Tees (23 21 13 23-2082)					
		EA	2" Copper Tee, Reducing, Grooved X Cup.....	133.19	31.12
		EA	2-1/2" Copper Tee, Reducing, Grooved X Cup.....	164.48	38.25
		EA	3" Copper Tee, Reducing, Grooved X Cup.....	256.57	46.94
		EA	4" Copper Tee, Reducing, Grooved X Cup.....	373.58	60.69
23 21 13 23-2118 Grooved Flanged Adapter Nipples (23 21 13 23-2082)					
		EA	2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	191.94	22.95
		EA	2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	207.71	27.88
		EA	3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	225.74	33.33
		EA	4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	264.23	44.87
		EA	5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	343.17	54.34
		EA	6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	401.99	73.39
23 21 13 23-2125 Grooved Concentric Reducers (23 21 13 23-2082)					
		EA	2-1/2" x 2" Copper Concentric Reducer, Grooved.....	95.80	23.60
		EA	3" x 2" Copper Concentric Reducer, Grooved.....	101.00	26.33
		EA	3" x 2-1/2" Copper Concentric Reducer, Grooved.....	111.06	31.25
		EA	4" x 2" Copper Concentric Reducer, Grooved.....	162.02	31.51
		EA	4" x 2-1/2" Copper Concentric Reducer, Grooved.....	166.57	33.71
		EA	4" x 3" Copper Concentric Reducer, Grooved.....	171.75	36.31
		EA	5" x 3" Copper Concentric Reducer, Grooved.....	361.83	41.50
		EA	5" x 4" Copper Concentric Reducer, Grooved.....	372.20	46.68
		EA	6" x 3" Copper Concentric Reducer, Grooved.....	400.39	49.28
		EA	6" x 4" Copper Concentric Reducer, Grooved.....	410.77	54.47
		EA	6" x 5" Copper Concentric Reducer, Grooved.....	421.15	59.65
		EA	8" x 6" Copper Concentric Reducer, Grooved.....	677.54	73.91
23 21 13 23-2138 Grooved X Cup Concentric Reducers (23 21 13 23-2082)					
		EA	2" x 1" Copper Concentric Reducer, Grooved X Cup.....	73.21	16.60
		EA	2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	74.51	17.24
		EA	2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	78.47	19.20
		EA	2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....	86.15	18.54
		EA	2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	87.43	19.20
		EA	2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	91.24	21.14
		EA	2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....	96.42	23.60
		EA	3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	108.30	23.60
		EA	3" x 2" Copper Concentric Reducer, Grooved X Cup.....	113.50	26.33
		EA	4" x 2" Copper Concentric Reducer, Grooved X Cup.....	176.07	31.38
23 21 13 23-2149 Grooved Standard Couplings (23 21 13 23-2082)					
		EA	2" Copper Standard Coupling, Grooved.....	32.85	10.63
		EA	2-1/2" Copper Standard Coupling, Grooved.....	39.18	12.97
		EA	3" Copper Standard Coupling, Grooved.....	45.53	15.43
		EA	4" Copper Standard Coupling, Grooved.....	63.81	20.74
		EA	5" Copper Standard Coupling, Grooved.....	89.91	25.81
		EA	6" Copper Standard Coupling, Grooved.....	118.12	33.71
		EA	8" Copper Standard Coupling, Grooved.....	159.14	40.20
23 21 13 23-2157 Grooved Caps (23 21 13 23-2082)					
		EA	2" Copper Cap, Grooved.....	44.50	10.63
		EA	2-1/2" Copper Cap, Grooved.....	60.40	12.97
		EA	3" Copper Cap, Grooved.....	73.74	15.43
		EA	4" Copper Cap, Grooved.....	105.68	20.61
		EA	5" Copper Cap, Grooved.....	165.77	25.81
		EA	6" Copper Cap, Grooved.....	198.92	33.71
23 21 13 23-2164 Grooved Valves (23 21 13 23-2081)					
23 21 13 23-2165 Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2164)					
			Note: Copper body.		
		EA	2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	462.68	13.87
			For Chain Wheel, Add	43.45	
			For Valve Bracket Insulation, Add	38.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2167	EA	3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	528.30	20.61
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2168	EA	4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	698.30	27.10
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2169	EA	6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	935.29	44.48
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2170	EA	8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	1,036.87	62.51
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2171		Grooved Butterfly Valves, Standard Trim, With Operator (23 21 13 23-2164)		
			Note: Copper body.		
23 21	13 23-2172	EA	2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	563.91	13.87
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2173	EA	3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	629.61	20.61
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2174	EA	4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	799.60	27.10
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2175	EA	6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	1,036.66	44.48
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2176	EA	8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body.....	1,138.18	62.51
			<i>For Chain Wheel, Add</i>	43.45	
			<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21	13 23-2177		Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23)		
			Note: Socket or back weld.		
23 21	13 23-2178		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2177)		
			Note: ASTM D1785 with D2466 fittings.		
23 21	13 23-2179		Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2178)		
23 21	13 23-2180	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	6.11	3.71
			<i>For Work In Restricted Working Space, Add</i>	1.67	
23 21	13 23-2181	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	7.65	4.63
			<i>For Work In Restricted Working Space, Add</i>	2.09	
23 21	13 23-2182	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	8.43	4.94
			<i>For Work In Restricted Working Space, Add</i>	2.22	
23 21	13 23-2183	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.31	5.31
			<i>For Work In Restricted Working Space, Add</i>	2.39	
23 21	13 23-2184	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	9.63	5.40
			<i>For Work In Restricted Working Space, Add</i>	2.43	
23 21	13 23-2185	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	11.79	6.47
			<i>For Work In Restricted Working Space, Add</i>	2.92	
23 21	13 23-2186	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	14.81	7.69
			<i>For Work In Restricted Working Space, Add</i>	3.46	
23 21	13 23-2187	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	18.20	9.30
			<i>For Work In Restricted Working Space, Add</i>	4.18	
23 21	13 23-2188	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	27.05	13.94
			<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21	13 23-2189	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	38.59	18.59
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-2190	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	49.49	22.16
			<i>For Work In Restricted Working Space, Add</i>	9.98	
23 21	13 23-2191	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe.....	86.83	24.76
			<i>For Work In Restricted Working Space, Add</i>	11.12	
23 21	13 23-2192		Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2178)		
23 21	13 23-2193	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	21.60	14.00
			<i>For Work In Restricted Working Space, Add</i>	6.28	
23 21	13 23-2194	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	28.85	18.54
			<i>For Work In Restricted Working Space, Add</i>	8.37	
23 21	13 23-2195	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	36.29	23.08
			<i>For Work In Restricted Working Space, Add</i>	10.37	
23 21	13 23-2196	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	52.08	32.68
			<i>For Work In Restricted Working Space, Add</i>	14.68	
23 21	13 23-2197	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	58.53	36.83
			<i>For Work In Restricted Working Space, Add</i>	16.55	
23 21	13 23-2198	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	75.36	46.81
			<i>For Work In Restricted Working Space, Add</i>	21.03	
23 21	13 23-2199	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	119.76	69.25
			<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21	13 23-2200	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	155.74	91.03
			<i>For Work In Restricted Working Space, Add</i>	40.95	
23 21	13 23-2201	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows.....	196.47	108.15
			<i>For Work In Restricted Working Space, Add</i>	48.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2202 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	267.55 55.58	123.58
23 21 13 23-2203 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	428.02 64.84	144.20
23 21 13 23-2204 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21 13 23-2205 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2178)</small>		
23 21 13 23-2206 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	21.95 6.28	14.00
23 21 13 23-2207 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	29.53 8.37	18.54
23 21 13 23-2208 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	37.25 10.37	23.08
23 21 13 23-2209 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	52.70 14.68	32.68
23 21 13 23-2210 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	59.90 16.55	36.83
23 21 13 23-2211 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	76.25 21.03	46.81
23 21 13 23-2212 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	119.76 31.12	69.25
23 21 13 23-2213 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	161.49 40.95	91.03
23 21 13 23-2214 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	206.94 48.63	108.15
23 21 13 23-2215 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	268.51 55.58	123.58
23 21 13 23-2216 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	416.45 64.84	144.20
23 21 13 23-2217 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	639.79 96.68	215.00
23 21 13 23-2218 Schedule 40 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2178)</small>		
23 21 13 23-2219 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	35.40 10.37	23.08
23 21 13 23-2220 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	42.72 12.55	27.88
23 21 13 23-2221 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	56.89 16.55	36.83
23 21 13 23-2222 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	72.83 21.03	46.81
23 21 13 23-2223 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	87.01 25.10	55.76
23 21 13 23-2224 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	108.60 31.12	69.25
23 21 13 23-2225 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	152.66 40.95	91.03
23 21 13 23-2226 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	183.26 48.63	108.15
23 21 13 23-2227 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	254.46 64.84	144.20
23 21 13 23-2228 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	408.13 83.66	185.96
23 21 13 23-2229 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	645.67 103.74	230.69
23 21 13 23-2230 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	1,690.19 155.04	344.67
23 21 13 23-2231 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2178)</small>		
23 21 13 23-2232 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	44.51 12.97	28.78
23 21 13 23-2233 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	53.68 15.68	34.88
23 21 13 23-2234 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	71.67 20.69	46.04
23 21 13 23-2235 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	91.91 26.29	58.48
23 21 13 23-2236 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	109.84 31.37	69.77
23 21 13 23-2237 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	137.29 38.90	86.49
23 21 13 23-2238 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	195.96 51.19	113.86
23 21 13 23-2239 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	235.78 60.79	135.12
23 21 13 23-2240 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	330.26 81.05	180.24
23 21 13 23-2241 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	551.07 104.53	232.38

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2242 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	902.10 129.61	288.13
23 21 13 23-2243 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	2,485.73 193.89	431.04
23 21 13 23-2244 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2245 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	22.31 6.51	14.27
23 21 13 23-2246 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	29.07 8.33	18.28
23 21 13 23-2247 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	38.82 11.13	24.51
23 21 13 23-2248 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	48.05 13.88	30.47
23 21 13 23-2249 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	58.70 16.71	36.70
23 21 13 23-2250 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	82.05 23.18	50.97
23 21 13 23-2251 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	113.96 32.03	70.41
23 21 13 23-2252 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	148.93 39.81	87.53
23 21 13 23-2253 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	194.70 46.31	101.92
23 21 13 23-2254 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	410.25 53.52	117.75
23 21 13 23-2255 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	496.67 71.78	157.94
23 21 13 23-2256 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2178)		
23 21 13 23-2257 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	22.36 6.28	14.00
23 21 13 23-2258 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.33 8.37	18.54
23 21 13 23-2259 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	36.36 10.37	23.08
23 21 13 23-2260 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	51.67 14.68	32.68
23 21 13 23-2261 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	58.33 16.55	36.83
23 21 13 23-2262 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	74.40 21.03	46.81
23 21 13 23-2263 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	109.97 31.12	69.25
23 21 13 23-2264 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	143.69 40.95	91.03
23 21 13 23-2265 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	178.32 48.63	108.15
23 21 13 23-2266 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2178)		
23 21 13 23-2267 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.84 6.28	14.00
23 21 13 23-2268 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	29.81 8.37	18.54
23 21 13 23-2269 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	37.32 10.37	23.08
23 21 13 23-2270 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	52.22 14.68	32.68
23 21 13 23-2271 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	59.56 16.55	36.83
23 21 13 23-2272 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	75.50 21.03	46.81
23 21 13 23-2273 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	111.20 31.12	69.25
23 21 13 23-2274 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	147.45 40.95	91.03
23 21 13 23-2275 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	176.14 48.63	108.15
23 21 13 23-2276 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2178)		
23 21 13 23-2277 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	21.60 6.28	14.00
23 21 13 23-2278 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.78 8.37	18.54
23 21 13 23-2279 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.61 10.37	23.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2280 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	50.57 14.68	32.68
23 21 13 23-2281 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	57.10 16.55	36.83
23 21 13 23-2282 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	72.69 21.03	46.81
23 21 13 23-2283 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	115.04 31.12	69.25
23 21 13 23-2284 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	151.70 40.95	91.03
23 21 13 23-2285 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	187.22 48.63	108.15
23 21 13 23-2286 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2178)		
23 21 13 23-2287 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	33.53 8.56	19.06
23 21 13 23-2288 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2178)		
23 21 13 23-2289 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	21.33 6.28	14.00
23 21 13 23-2290 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	28.44 8.37	18.54
23 21 13 23-2291 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	35.61 10.37	23.08
23 21 13 23-2292 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	50.30 14.68	32.68
23 21 13 23-2293 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	56.69 16.55	36.83
23 21 13 23-2294 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	72.42 21.03	46.81
23 21 13 23-2295 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	108.94 31.12	69.25
23 21 13 23-2296 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	144.65 40.95	91.03
23 21 13 23-2297 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	173.94 48.63	108.15
23 21 13 23-2298 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	222.78 55.58	123.58
23 21 13 23-2299 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	286.22 64.84	144.20
23 21 13 23-2300 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	553.43 69.50	154.57
23 21 13 23-2301 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2178)		
23 21 13 23-2302 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	38.59 10.37	23.08
23 21 13 23-2303 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	53.40 12.55	27.88
23 21 13 23-2304 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	68.12 16.55	36.83
23 21 13 23-2305 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	101.58 21.03	46.81
23 21 13 23-2306 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	116.52 25.10	55.76
23 21 13 23-2307 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	148.04 31.12	69.25
23 21 13 23-2308 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	216.88 40.95	91.03
23 21 13 23-2309 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	247.27 48.63	108.15
23 21 13 23-2310 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	385.01 64.84	144.20
23 21 13 23-2311 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21 13 23-2312 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21 13 23-2313 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,044.84 128.75	286.19
23 21 13 23-2314 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2178)		
23 21 13 23-2315 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	10.07 2.86	6.30
23 21 13 23-2316 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	13.24 3.77	8.30
23 21 13 23-2317 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	16.66 4.67	10.24
23 21 13 23-2318 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	23.78 6.68	14.69

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2319	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	26.47 7.45	16.34
23 21	13 23-2320	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	33.53 9.46	20.88
23 21	13 23-2321	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	53.18 14.00	30.87
23 21	13 23-2322	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	68.48 18.43	40.58
23 21	13 23-2323	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	89.10 21.88	48.11
23 21	13 23-2324	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	122.05 25.01	54.98
23 21	13 23-2325	EA	8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	226.66 29.18	64.19
23 21	13 23-2326	EA	10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	623.78 43.50	95.70
23 21	13 23-2327		Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <small>(23 21 13 23-2178)</small>		
23 21	13 23-2328	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges <i>For Work In Restricted Working Space, Add</i>	48.34 10.37	23.08
23 21	13 23-2329	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	62.92 12.55	27.88
23 21	13 23-2330	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	78.66 16.55	36.83
23 21	13 23-2331	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	94.26 21.03	46.81
23 21	13 23-2332	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	108.37 25.10	55.76
23 21	13 23-2333	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	136.60 31.12	69.25
23 21	13 23-2334	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	187.23 40.95	91.03
23 21	13 23-2335	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	218.10 48.63	108.15
23 21	13 23-2336	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	287.05 64.84	144.20
23 21	13 23-2337	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	390.27 83.63	185.96
23 21	13 23-2338	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	597.22 103.69	230.57
23 21	13 23-2339	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	995.55 128.54	285.80
23 21	13 23-2340		Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2177)</small> Note: ASTM D1785 with D2467 fittings.		
23 21	13 23-2341		Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2340)</small>		
23 21	13 23-2342	LF	1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.26 1.67	3.76
23 21	13 23-2343	LF	3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.85 2.09	4.67
23 21	13 23-2344	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.67 2.50	5.57
23 21	13 23-2345	LF	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.55 2.93	6.48
23 21	13 23-2346	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.28 3.34	7.39
23 21	13 23-2347	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.06 4.18	9.34
23 21	13 23-2348	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.99 4.60	10.24
23 21	13 23-2349	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	22.90 5.02	11.15
23 21	13 23-2350	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	29.98 6.28	14.00
23 21	13 23-2351	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	45.11 8.37	18.54
23 21	13 23-2352	LF	8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	59.49 9.98	22.17
23 21	13 23-2353	LF	10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	116.64 10.74	23.86
23 21	13 23-2354		Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2340)</small>		
23 21	13 23-2355	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	23.38 6.28 3.14	14.00
23 21	13 23-2356	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	31.11 8.37 4.18	18.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2357 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.78 10.37 5.19	23.08
23 21 13 23-2358 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	55.85 14.68 7.34	32.68
23 21 13 23-2359 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.57 16.55 8.28	36.83
23 21 13 23-2360 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	79.06 21.03 10.51	46.81
23 21 13 23-2361 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	124.76 31.12 15.56	69.25
23 21 13 23-2362 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.12 40.95 20.48	91.03
23 21 13 23-2363 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	197.97 48.63 24.32	108.15
23 21 13 23-2364 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	314.86 55.58 27.79	123.58
23 21 13 23-2365 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	497.85 64.84 32.42	144.20
23 21 13 23-2366 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	639.79 96.68 48.34	215.00
23 21 13 23-2367 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2340)</small>		
23 21 13 23-2368 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.64 6.28 3.14	14.00
23 21 13 23-2369 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	35.08 8.37 4.18	18.54
23 21 13 23-2370 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.40 10.37 5.19	23.08
23 21 13 23-2371 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.76 14.68 7.34	32.68
23 21 13 23-2372 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.47 16.55 8.28	36.83
23 21 13 23-2373 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	91.25 21.03 10.51	46.81
23 21 13 23-2374 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	148.24 31.12 15.56	69.25
23 21 13 23-2375 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	190.66 40.95 20.48	91.03
23 21 13 23-2376 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	259.67 48.63 24.32	108.15
23 21 13 23-2377 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	308.09 55.58 27.79	123.58
23 21 13 23-2378 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	482.46 64.84 32.42	144.20
23 21 13 23-2379 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	622.49 96.68 48.34	215.00
23 21 13 23-2380 Schedule 80 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2340)</small>		
23 21 13 23-2381 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.88 9.85 4.92	21.91
23 21 13 23-2382 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	49.22 12.55 6.27	27.88
23 21 13 23-2383 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	64.42 16.55 8.28	36.83
23 21 13 23-2384 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	95.63 21.03 10.51	46.81

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2385 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	109.20	55.76
For Work In Restricted Working Space, Add	25.10	
For Threaded Fittings, Add	12.55	
23 21 13 23-2386 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	135.71	69.25
For Work In Restricted Working Space, Add	31.12	
For Threaded Fittings, Add	15.56	
23 21 13 23-2387 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees	171.28	91.03
For Work In Restricted Working Space, Add	40.95	
For Threaded Fittings, Add	20.48	
23 21 13 23-2388 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	205.51	108.15
For Work In Restricted Working Space, Add	48.63	
For Threaded Fittings, Add	24.32	
23 21 13 23-2389 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	266.44	144.20
For Work In Restricted Working Space, Add	64.84	
For Threaded Fittings, Add	32.42	
23 21 13 23-2390 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	450.79	185.96
For Work In Restricted Working Space, Add	83.66	
For Threaded Fittings, Add	41.83	
23 21 13 23-2391 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	744.56	230.69
For Work In Restricted Working Space, Add	103.74	
For Threaded Fittings, Add	51.87	
23 21 13 23-2392 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees.....	1,690.27	344.67
For Work In Restricted Working Space, Add	155.04	
For Threaded Fittings, Add	77.52	
23 21 13 23-2393 Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2340)		
23 21 13 23-2394 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	52.09	27.36
For Work In Restricted Working Space, Add	12.31	
For Threaded Fittings, Add	6.16	
23 21 13 23-2395 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	63.87	34.88
For Work In Restricted Working Space, Add	15.68	
For Threaded Fittings, Add	7.84	
23 21 13 23-2396 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses	83.47	46.04
For Work In Restricted Working Space, Add	20.69	
For Threaded Fittings, Add	10.35	
23 21 13 23-2397 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	127.65	58.48
For Work In Restricted Working Space, Add	26.29	
For Threaded Fittings, Add	13.14	
23 21 13 23-2398 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	144.61	69.77
For Work In Restricted Working Space, Add	31.37	
For Threaded Fittings, Add	15.69	
23 21 13 23-2399 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	179.79	86.49
For Work In Restricted Working Space, Add	38.90	
For Threaded Fittings, Add	19.45	
23 21 13 23-2400 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses	225.16	113.86
For Work In Restricted Working Space, Add	51.19	
For Threaded Fittings, Add	25.59	
23 21 13 23-2401 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses	270.67	135.12
For Work In Restricted Working Space, Add	60.79	
For Threaded Fittings, Add	30.39	
23 21 13 23-2402 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses	349.05	180.24
For Work In Restricted Working Space, Add	81.05	
For Threaded Fittings, Add	40.52	
23 21 13 23-2403 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses	617.95	232.38
For Work In Restricted Working Space, Add	104.53	
For Threaded Fittings, Add	52.27	
23 21 13 23-2404 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses	1,057.12	288.13
For Work In Restricted Working Space, Add	129.61	
For Threaded Fittings, Add	64.80	
23 21 13 23-2405 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses	2,485.85	431.04
For Work In Restricted Working Space, Add	193.89	
For Threaded Fittings, Add	96.95	
23 21 13 23-2406 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2340)		
23 21 13 23-2407 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	29.33	18.54
For Work In Restricted Working Space, Add	8.37	
23 21 13 23-2408 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	38.76	23.08
For Work In Restricted Working Space, Add	10.37	
23 21 13 23-2409 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	55.50	32.68
For Work In Restricted Working Space, Add	14.68	
23 21 13 23-2410 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	64.15	36.83
For Work In Restricted Working Space, Add	16.55	
23 21 13 23-2411 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	82.89	46.81
For Work In Restricted Working Space, Add	21.03	
23 21 13 23-2412 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	125.92	69.25
For Work In Restricted Working Space, Add	31.12	
23 21 13 23-2413 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	171.76	91.03
For Work In Restricted Working Space, Add	40.95	
23 21 13 23-2414 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	210.98	108.15
For Work In Restricted Working Space, Add	48.63	
23 21 13 23-2415 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	239.48	123.58
For Work In Restricted Working Space, Add	55.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2416 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	336.48 64.84	144.20
23 21 13 23-2417 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	508.49 75.32	167.41
23 21 13 23-2418 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2340)		
23 21 13 23-2419 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	21.40 6.28	14.00
23 21 13 23-2420 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	30.56 8.37	18.54
23 21 13 23-2421 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	38.76 10.37	23.08
23 21 13 23-2422 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	57.42 14.68	32.68
23 21 13 23-2423 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	65.86 16.55	36.83
23 21 13 23-2424 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	83.17 21.03	46.81
23 21 13 23-2425 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	131.40 31.12	69.25
23 21 13 23-2426 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	187.71 40.95	91.03
23 21 13 23-2427 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	240.83 48.63	108.15
23 21 13 23-2428 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2340)		
23 21 13 23-2429 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	26.74 6.28	14.00
23 21 13 23-2430 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.33 8.37	18.54
23 21 13 23-2431 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	45.81 10.37	23.08
23 21 13 23-2432 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	62.08 14.68	32.68
23 21 13 23-2433 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	74.08 16.55	36.83
23 21 13 23-2434 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	94.74 21.03	46.81
23 21 13 23-2435 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	131.81 31.12	69.25
23 21 13 23-2436 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	167.65 40.95	91.03
23 21 13 23-2437 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	217.49 48.63	108.15
23 21 13 23-2438 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2340)		
23 21 13 23-2439 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.17 6.28	14.00
23 21 13 23-2440 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.19 8.37	18.54
23 21 13 23-2441 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	43.89 10.37	23.08
23 21 13 23-2442 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	64.06 14.68	32.68
23 21 13 23-2443 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	73.73 16.55	36.83
23 21 13 23-2444 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	102.40 21.03	46.81
23 21 13 23-2445 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	154.81 31.12	69.25
23 21 13 23-2446 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	194.01 40.95	91.03
23 21 13 23-2447 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	260.96 48.63	108.15
23 21 13 23-2448 Schedule 80 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2340)		
23 21 13 23-2449 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.44 6.28 3.14	14.00
23 21 13 23-2450 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.98 8.37 4.18	18.54
23 21 13 23-2451 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	40.88 10.37 5.19	23.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2452	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	58.58 14.68 7.34	32.68
23 21	13 23-2453	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	65.59 16.55 8.28	36.83
23 21	13 23-2454	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	81.18 21.03 10.51	46.81
23 21	13 23-2455	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	131.19 31.12 15.56	69.25
23 21	13 23-2456	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	168.06 40.95 20.48	91.03
23 21	13 23-2457	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	201.67 48.63 24.32	108.15
23 21	13 23-2458	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	270.36 55.58 27.79	123.58
23 21	13 23-2459	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	331.96 64.84 32.42	144.20
23 21	13 23-2460	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	573.97 69.50 34.75	154.57
23 21	13 23-2461		Schedule 80 Polyvinyl Chloride (PVC) Unions <small>(23 21 13 23-2340)</small>		
23 21	13 23-2462	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	44.71 10.37	23.08
23 21	13 23-2463	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	53.54 12.55	27.88
23 21	13 23-2464	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	68.53 16.55	36.83
23 21	13 23-2465	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	103.50 21.03	46.81
23 21	13 23-2466	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	126.65 25.10	55.76
23 21	13 23-2467	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	162.00 31.12	69.25
23 21	13 23-2468	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	244.98 40.95	91.03
23 21	13 23-2469	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	301.93 48.63	108.15
23 21	13 23-2470	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	385.43 64.84	144.20
23 21	13 23-2471	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	505.15 83.63	185.96
23 21	13 23-2472	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	719.15 103.69	230.57
23 21	13 23-2473	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,044.16 128.54	285.80
23 21	13 23-2474		Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions <small>(23 21 13 23-2340)</small>		
23 21	13 23-2475	EA	1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	49.22	28.81
23 21	13 23-2476	EA	3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	58.30	33.33
23 21	13 23-2477	EA	1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	70.21	39.30
23 21	13 23-2478	EA	1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	91.53	46.81
23 21	13 23-2479	EA	1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	110.07	55.76
23 21	13 23-2480	EA	2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	144.08	69.25
23 21	13 23-2481	EA	3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	303.48	134.22
23 21	13 23-2482	EA	4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	330.39	148.87
23 21	13 23-2483		Schedule 80 Polyvinyl Chloride (PVC) Caps <small>(23 21 13 23-2340)</small>		
23 21	13 23-2484	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	15.79 2.83 1.41	6.23
23 21	13 23-2485	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.27 3.77 1.88	8.30
23 21	13 23-2486	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	27.47 4.67 2.33	10.24
23 21	13 23-2487	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	36.40 6.61 3.30	14.53
23 21	13 23-2488	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.21 7.45 3.72	16.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2489 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.11 9.46 4.73	20.88
23 21 13 23-2490 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	90.98 14.00 7.00	30.87
23 21 13 23-2491 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	115.58 18.43 9.21	40.58
23 21 13 23-2492 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.03 21.88 10.94	48.11
23 21 13 23-2493 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	299.72 25.01 12.51	54.98
23 21 13 23-2494 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	394.46 29.18 14.59	64.19
23 21 13 23-2495 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	692.24 43.50 21.75	95.70
23 21 13 23-2496 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2340)		
23 21 13 23-2497 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.23 10.37 5.19	23.08
23 21 13 23-2498 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.92 12.55 6.27	27.88
23 21 13 23-2499 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	78.66 16.55 8.28	36.83
23 21 13 23-2500 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	94.26 21.03 10.51	46.81
23 21 13 23-2501 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	108.38 25.10 12.55	55.76
23 21 13 23-2502 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	136.60 31.12 15.56	69.25
23 21 13 23-2503 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	187.23 40.95 20.48	91.03
23 21 13 23-2504 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	218.10 48.63 24.32	108.15
23 21 13 23-2505 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.05 64.84 32.42	144.20
23 21 13 23-2506 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	390.28 83.63 41.81	185.96
23 21 13 23-2507 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	597.22 103.69 51.84	230.57
23 21 13 23-2508 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	995.55 128.54 64.27	285.80
23 21 13 23-2509 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2177)		
Note: In place pipe.		
23 21 13 23-2510 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.04 2.11	
23 21 13 23-2511 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.60 2.28	
23 21 13 23-2512 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.56 2.57	
23 21 13 23-2513 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.98 2.69	
23 21 13 23-2514 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.50 2.85	
23 21 13 23-2515 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.46 3.14	
23 21 13 23-2516 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.26 3.38	
23 21 13 23-2517 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.30 3.99	
23 21 13 23-2518 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.96 5.39	
23 21 13 23-2519 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	25.66 7.70	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2520 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	34.22 10.27	
23 21 13 23-2521 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	41.84 12.55	
23 21 13 23-2522 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2523 Small Diameter Tubing (23 21 13 23-2522)		
23 21 13 23-2524 Tubing (23 21 13 23-2523)		
23 21 13 23-2525 LF 1/4" Polyethylene Tubing..... <i>For Work In Restricted Working Space, Add</i>	4.04 1.17	
23 21 13 23-2526 LF 5/16" Polyethylene Tubing..... <i>For Work In Restricted Working Space, Add</i>	4.24 1.20	
23 21 13 23-2527 LF 3/8" Polyethylene Tubing..... <i>For Work In Restricted Working Space, Add</i>	4.39 1.22	
23 21 13 23-2528 LF 1/2" Polyethylene Tubing..... <i>For Work In Restricted Working Space, Add</i>	4.64 1.32	
23 21 13 23-2529 Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2530 Chrome Plated Nipples (23 21 13 23-2529)		
23 21 13 23-2531 Close (23 21 13 23-2530)		
23 21 13 23-2532 EA 1/4" Diameter Chrome Plated Nipple, Close.....	23.77	11.26
23 21 13 23-2533 EA 3/8" Diameter Chrome Plated Nipple, Close.....	23.17	12.25
23 21 13 23-2534 EA 1/2" Diameter Chrome Plated Nipple, Close.....	28.47	14.09
23 21 13 23-2535 EA 3/4" Diameter Chrome Plated Nipple, Close.....	37.16	17.89
23 21 13 23-2536 EA 1" Diameter Chrome Plated Nipple, Close.....	49.63	23.52
23 21 13 23-2537 EA 1-1/4" Diameter Chrome Plated Nipple, Close.....	70.19	32.81
23 21 13 23-2538 EA 1-1/2" Diameter Chrome Plated Nipple, Close.....	85.16	38.45
23 21 13 23-2539 EA 2" Diameter Chrome Plated Nipple, Close.....	109.23	47.89
23 21 13 23-2540 1-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2541 EA 1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	25.30	11.69
23 21 13 23-2542 EA 3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	24.40	12.67
23 21 13 23-2543 EA 1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	29.21	14.51
23 21 13 23-2544 EA 3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	38.43	18.31
23 21 13 23-2545 2" Nipples (23 21 13 23-2530)		
23 21 13 23-2546 EA 1/4" Diameter, 2" Length, Chrome Plated Nipple.....	26.32	12.25
23 21 13 23-2547 EA 3/8" Diameter, 2" Length, Chrome Plated Nipple.....	25.26	13.09
23 21 13 23-2548 EA 1/2" Diameter, 2" Length, Chrome Plated Nipple.....	31.28	15.07
23 21 13 23-2549 EA 3/4" Diameter, 2" Length, Chrome Plated Nipple.....	40.20	18.74
23 21 13 23-2550 EA 1" Diameter, 2" Length, Chrome Plated Nipple.....	52.37	24.37
23 21 13 23-2551 EA 1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	74.48	33.80
23 21 13 23-2552 EA 1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	90.09	39.43
23 21 13 23-2553 2-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2554 EA 1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	27.76	12.67
23 21 13 23-2555 EA 3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	26.17	13.66
23 21 13 23-2556 EA 1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	32.57	15.50
23 21 13 23-2557 EA 3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	41.17	19.30
23 21 13 23-2558 EA 1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	53.80	24.93
23 21 13 23-2559 EA 1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	78.49	34.22
23 21 13 23-2560 EA 1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	95.38	39.85
23 21 13 23-2561 EA 2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	120.90	49.30
23 21 13 23-2562 3" Nipples (23 21 13 23-2530)		
23 21 13 23-2563 EA 1/4" Diameter, 3" Length, Chrome Plated Nipple.....	28.91	13.09
23 21 13 23-2564 EA 3/8" Diameter, 3" Length, Chrome Plated Nipple.....	27.63	14.09
23 21 13 23-2565 EA 1/2" Diameter, 3" Length, Chrome Plated Nipple.....	32.07	15.07
23 21 13 23-2566 EA 3/4" Diameter, 3" Length, Chrome Plated Nipple.....	44.13	19.72
23 21 13 23-2567 EA 1" Diameter, 3" Length, Chrome Plated Nipple.....	59.69	25.35
23 21 13 23-2568 EA 1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	82.85	34.79
23 21 13 23-2569 EA 1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	107.69	40.42
23 21 13 23-2570 EA 2" Diameter, 3" Length, Chrome Plated Nipple.....	130.57	49.86
23 21 13 23-2571 3-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2572 EA 1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.18	13.66
23 21 13 23-2573 EA 3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	30.01	14.51
23 21 13 23-2574 EA 1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	35.31	16.48
23 21 13 23-2575 EA 3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	48.44	20.14
23 21 13 23-2576 EA 1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	62.05	25.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2577 EA 1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	91.28	35.21
23 21 13 23-2578 EA 1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	111.47	40.84
23 21 13 23-2579 EA 2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	138.30	50.28
23 21 13 23-2580 4" Nipples (23 21 13 23-2530)		
23 21 13 23-2581 EA 1/4" Diameter, 4" Length, Chrome Plated Nipple.....	31.45	14.09
23 21 13 23-2582 EA 3/8" Diameter, 4" Length, Chrome Plated Nipple.....	30.79	15.07
23 21 13 23-2583 EA 1/2" Diameter, 4" Length, Chrome Plated Nipple.....	35.43	15.92
23 21 13 23-2584 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	50.23	20.71
23 21 13 23-2585 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	64.30	26.34
23 21 13 23-2586 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	97.74	35.63
23 21 13 23-2587 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	119.10	41.26
23 21 13 23-2588 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	147.70	50.71
23 21 13 23-2589 4-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2590 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	32.60	14.51
23 21 13 23-2591 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	33.18	15.50
23 21 13 23-2592 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	38.82	17.33
23 21 13 23-2593 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	52.26	21.13
23 21 13 23-2594 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	71.75	26.76
23 21 13 23-2595 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	103.93	36.19
23 21 13 23-2596 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	122.58	41.84
23 21 13 23-2597 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	156.35	51.27
23 21 13 23-2598 5" Nipples (23 21 13 23-2530)		
23 21 13 23-2599 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	36.20	15.07
23 21 13 23-2600 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	34.71	15.92
23 21 13 23-2601 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	40.18	17.89
23 21 13 23-2602 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	54.20	21.55
23 21 13 23-2603 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	76.33	27.18
23 21 13 23-2604 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	109.58	36.62
23 21 13 23-2605 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	130.24	42.26
23 21 13 23-2606 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	161.99	51.69
23 21 13 23-2607 5-1/2" Nipples (23 21 13 23-2530)		
23 21 13 23-2608 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	37.37	15.50
23 21 13 23-2609 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	35.96	16.48
23 21 13 23-2610 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	43.77	18.31
23 21 13 23-2611 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	56.15	22.11
23 21 13 23-2612 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	78.78	27.75
23 21 13 23-2613 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	116.39	37.04
23 21 13 23-2614 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	136.37	42.68
23 21 13 23-2615 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	169.15	52.11
23 21 13 23-2616 6" Nipples (23 21 13 23-2530)		
23 21 13 23-2617 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	38.72	15.92
23 21 13 23-2618 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	36.70	16.91
23 21 13 23-2619 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	45.03	18.74
23 21 13 23-2620 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	57.75	22.54
23 21 13 23-2621 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	86.02	28.17
23 21 13 23-2622 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	120.63	37.60
23 21 13 23-2623 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	145.74	43.24
23 21 13 23-2624 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	175.69	52.68
23 21 13 23-2625 8" Nipples (23 21 13 23-2530)		
23 21 13 23-2626 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	43.26	17.89
23 21 13 23-2627 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	62.43	19.72
23 21 13 23-2628 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	75.79	23.52
23 21 13 23-2629 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	100.26	29.15
23 21 13 23-2630 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	143.11	38.45
23 21 13 23-2631 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	175.06	44.09
23 21 13 23-2632 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	215.51	53.52
23 21 13 23-2633 10" Nipples (23 21 13 23-2530)		
23 21 13 23-2634 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	49.29	17.89
23 21 13 23-2635 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	70.02	19.72
23 21 13 23-2636 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	84.58	23.52
23 21 13 23-2637 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	113.56	29.15
23 21 13 23-2638 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	171.59	38.45
23 21 13 23-2639 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	196.76	44.09
23 21 13 23-2640 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	250.19	53.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2641		12" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2642	EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	54.95	19.72
	23 21	13 23-2643	EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	73.31	20.71
	23 21	13 23-2644	EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	93.08	24.37
	23 21	13 23-2645	EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	132.60	30.98
	23 21	13 23-2646	EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	191.87	40.42
	23 21	13 23-2647	EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	280.81	55.49
23 21	13 23-2648		18" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2649	EA 3/8" Diameter, 18" Length, Chrome Plated Nipple.....	69.07	20.71
23 21	13 23-2650		24" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2651	EA 3/8" Diameter, 24" Length, Chrome Plated Nipple.....	82.59	21.55
23 21	13 23-2652		30" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2653	EA 3/8" Diameter, 30" Length, Chrome Plated Nipple.....	91.28	22.54
23 21	13 23-2654		36" Nipples <small>(23 21 13 23-2530)</small>		
	23 21	13 23-2655	EA 3/8" Diameter, 36" Length, Chrome Plated Nipple.....	100.00	23.52
23 21	13 23-2656		Chrome Plated Fittings <small>(23 21 13 23-2529)</small>		
23 21	13 23-2657		Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2658	EA 1/4" 90 Degree Elbow, Chrome Plated.....	29.86	13.09
	23 21	13 23-2659	EA 3/8" 90 Degree Elbow, Chrome Plated.....	30.62	14.09
	23 21	13 23-2660	EA 1/2" 90 Degree Elbow, Chrome Plated.....	34.26	15.07
	23 21	13 23-2661	EA 3/4" 90 Degree Elbow, Chrome Plated.....	43.85	19.72
	23 21	13 23-2662	EA 1" 90 Degree Elbow, Chrome Plated.....	59.20	25.35
	23 21	13 23-2663	EA 1-1/4" 90 Degree Elbow, Chrome Plated.....	90.08	34.79
	23 21	13 23-2664	EA 1-1/2" 90 Degree Elbow, Chrome Plated.....	107.90	40.42
	23 21	13 23-2665	EA 2" 90 Degree Elbow, Chrome Plated.....	146.44	49.86
23 21	13 23-2666		Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2667	EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	34.11	13.09
	23 21	13 23-2668	EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	35.28	14.09
	23 21	13 23-2669	EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	37.50	15.07
	23 21	13 23-2670	EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	48.63	19.72
	23 21	13 23-2671	EA 1" Street 90 Degree Elbow, Chrome Plated.....	68.02	25.35
	23 21	13 23-2672	EA 1-1/4" Street 90 Degree Elbow, Chrome Plated.....	99.12	34.79
	23 21	13 23-2673	EA 1-1/2" Street 90 Degree Elbow, Chrome Plated.....	120.56	40.42
	23 21	13 23-2674	EA 2" Street 90 Degree Elbow, Chrome Plated.....	176.23	49.86
23 21	13 23-2675		Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2676	EA 1/4" 45 Degree Elbow, Chrome Plated.....	30.79	13.09
	23 21	13 23-2677	EA 3/8" 45 Degree Elbow, Chrome Plated.....	31.96	14.09
	23 21	13 23-2678	EA 1/2" 45 Degree Elbow, Chrome Plated.....	35.22	15.07
	23 21	13 23-2679	EA 3/4" 45 Degree Elbow, Chrome Plated.....	47.50	19.72
	23 21	13 23-2680	EA 1" 45 Degree Elbow, Chrome Plated.....	63.29	25.35
	23 21	13 23-2681	EA 1-1/4" 45 Degree Elbow, Chrome Plated.....	94.98	34.79
	23 21	13 23-2682	EA 1-1/2" 45 Degree Elbow, Chrome Plated.....	114.46	40.42
	23 21	13 23-2683	EA 2" 45 Degree Elbow, Chrome Plated.....	164.46	49.86
23 21	13 23-2684		Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2685	EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	41.06	15.07
23 21	13 23-2686		Chrome Plated Couplings <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2687	EA 1/4" Coupling, Chrome Plated.....	29.28	13.09
	23 21	13 23-2688	EA 3/8" Coupling, Chrome Plated.....	30.69	14.09
	23 21	13 23-2689	EA 1/2" Coupling, Chrome Plated.....	34.50	15.07
	23 21	13 23-2690	EA 3/4" Coupling, Chrome Plated.....	43.94	19.72
	23 21	13 23-2691	EA 1" Coupling, Chrome Plated.....	57.19	25.35
	23 21	13 23-2692	EA 1-1/4" Coupling, Chrome Plated.....	82.73	34.79
	23 21	13 23-2693	EA 1-1/2" Coupling, Chrome Plated.....	101.75	40.42
	23 21	13 23-2694	EA 2" Coupling, Chrome Plated.....	138.93	49.86
23 21	13 23-2695		Chrome Plated Unions <small>(23 21 13 23-2656)</small>		
	23 21	13 23-2696	EA 1/4" Union, Chrome Plated.....	45.62	15.07
	23 21	13 23-2697	EA 3/8" Union, Chrome Plated.....	47.05	15.92
	23 21	13 23-2698	EA 1/2" Union, Chrome Plated.....	56.54	17.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2699 EA 3/4" Union, Chrome Plated	70.42	23.52
23 21 13 23-2700 EA 1" Union, Chrome Plated	89.13	30.00
23 21 13 23-2701 EA 1-1/4" Union, Chrome Plated	142.64	40.42
23 21 13 23-2702 EA 1-1/2" Union, Chrome Plated	177.06	47.89
23 21 13 23-2703 EA 2" Union, Chrome Plated	230.07	58.31
23 21 13 23-2704 Chrome Plated Caps (23 21 13 23-2656)		
23 21 13 23-2705 EA 1/4" Cap, Chrome Plated	19.18	6.62
23 21 13 23-2706 EA 3/8" Cap, Chrome Plated	19.88	7.04
23 21 13 23-2707 EA 1/2" Cap, Chrome Plated	22.57	7.46
23 21 13 23-2708 EA 3/4" Cap, Chrome Plated	28.28	9.86
23 21 13 23-2709 EA 1" Cap, Chrome Plated	33.83	12.67
23 21 13 23-2710 EA 1-1/4" Cap, Chrome Plated	49.62	17.33
23 21 13 23-2711 EA 1-1/2" Cap, Chrome Plated	64.77	20.14
23 21 13 23-2712 EA 2" Cap, Chrome Plated	93.98	26.34
23 21 13 23-2713 Chrome Plated Plugs (23 21 13 23-2656)		
23 21 13 23-2714 EA 1/4" Plug, Chrome Plated	15.94	6.62
23 21 13 23-2715 EA 3/8" Plug, Chrome Plated	16.64	7.04
23 21 13 23-2716 EA 1/2" Plug, Chrome Plated	19.16	7.46
23 21 13 23-2717 EA 3/4" Plug, Chrome Plated	25.85	9.86
23 21 13 23-2718 EA 1" Plug, Chrome Plated	31.98	12.67
23 21 13 23-2719 EA 1-1/4" Plug, Chrome Plated	43.24	17.33
23 21 13 23-2720 EA 1-1/2" Plug, Chrome Plated	53.07	20.14
23 21 13 23-2721 EA 2" Plug, Chrome Plated	73.63	26.34
23 21 13 23-2722 Chrome Plated Tees (23 21 13 23-2656)		
23 21 13 23-2723 EA 1/4" Chrome Plated Tee	41.81	19.72
23 21 13 23-2724 EA 3/8" Chrome Plated Tee	44.62	21.55
23 21 13 23-2725 EA 1/2" Chrome Plated Tee	49.60	23.52
23 21 13 23-2726 EA 3/4" Chrome Plated Tee	61.75	29.15
23 21 13 23-2727 EA 1" Chrome Plated Tee	86.94	37.60
23 21 13 23-2728 EA 1-1/4" Chrome Plated Tee	119.83	51.69
23 21 13 23-2729 EA 1-1/2" Chrome Plated Tee	152.04	60.14
23 21 13 23-2730 EA 2" Chrome Plated Tee	206.73	74.23
23 21 13 23-2731 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2656)		
23 21 13 23-2732 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	47.44	23.52
23 21 13 23-2733 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	55.89	29.15
23 21 13 23-2734 Chrome Plated Bell Reducers (23 21 13 23-2656)		
23 21 13 23-2735 EA 1/2" x 3/8" Bell Reducer, Chrome Plated	51.35	23.52
23 21 13 23-2736 EA 3/4" x 1/2" Bell Reducer, Chrome Plated	62.64	29.15
23 21 13 23-2737 EA 1" x 1/2" Bell Reducer, Chrome Plated	79.71	37.60
23 21 13 23-2738 Chrome Plated Reducing Tees (23 21 13 23-2656)		
23 21 13 23-2739 EA 3/4" x 1/2" Reducing Tee, Chrome Plated	67.61	29.15
23 21 13 23-2740 Chrome Plated Bushings (23 21 13 23-2656)		
23 21 13 23-2741 EA 3/8" x 1/4" Bushing, Chrome Plated	15.84	6.62
23 21 13 23-2742 EA 1/2" x 1/4" Bushing, Chrome Plated	17.05	7.04
23 21 13 23-2743 EA 1/2" x 3/8" Bushing, Chrome Plated	17.75	7.46
23 21 13 23-2744 EA 3/4" x 1/2" Bushing, Chrome Plated	22.63	9.86
23 21 13 23-2745 EA 1" x 3/4" Bushing, Chrome Plated	32.60	12.67
23 21 13 23-2746 EA 1-1/4" x 1" Bushing, Chrome Plated	47.45	17.33
23 21 13 23-2747 Aluminum Tubing Assemblies (23 21 13 23)		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2748 LF 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly	11.45	4.93
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2749 LF 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly	13.07	5.63
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2750 LF 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly	14.58	6.34
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2751 LF 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly	16.05	7.04
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2752 LF 3/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	17.73	7.74
23 21 13 23-2753 LF 1/2" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	20.01	8.45
23 21 13 23-2754 LF 5/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	23.32	9.73
23 21 13 23-2755 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	27.96	11.03
23 21 13 23-2756 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	32.08	12.31
23 21 13 23-2757 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly	37.07	12.97
23 21 16 Hydronic Piping Specialties (23 21)		
23 21 16 00-0001 Vent Valves (23 21 16)		
23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A)	79.81	21.14
23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74)	175.21	22.73
23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75)	167.68	22.73
23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H)	172.95	22.73
23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)	219.06	22.73
23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79)	165.61	22.73
23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)		
23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	277.39	35.42
For Flanged Inlet, Add	93.22	
23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow	316.44	41.98
For Flanged Inlet, Add	100.08	
23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	394.34	48.54
For Flanged Inlet, Add	135.01	
23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow	571.67	55.10
For Flanged Inlet, Add	237.54	
23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow	648.53	65.59
For Flanged Inlet, Add	262.60	
23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow	892.29	82.64
For Flanged Inlet, Add	383.75	
23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow	1,938.95	108.88
For Flanged Inlet, Add	1,021.15	
23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	593.91	35.42
For Flanged Inlet, Add	308.45	
23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow	718.92	41.98
For Flanged Inlet, Add	373.76	
23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,014.95	48.54
For Flanged Inlet, Add	557.03	
23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,041.50	55.10
For Flanged Inlet, Add	557.03	
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,484.56	65.59
For Flanged Inlet, Add	831.10	
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow	1,550.15	82.64
For Flanged Inlet, Add	831.10	
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow	2,536.07	108.88
For Flanged Inlet, Add	1,427.19	
23 21 16 00-0025 Y-Type Strainers (23 21 16)		
23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	86.47	15.78
For Galvanized Body, Add	20.69	
For Work In Restricted Working Space, Add	13.53	
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	87.17	16.07
For Galvanized Body, Add	20.69	
For Work In Restricted Working Space, Add	13.74	
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	111.38	21.70
For Galvanized Body, Add	24.70	
For Work In Restricted Working Space, Add	18.60	
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	140.71	25.92
For Galvanized Body, Add	33.37	
For Work In Restricted Working Space, Add	22.19	
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer	183.02	32.05
For Galvanized Body, Add	45.72	
For Work In Restricted Working Space, Add	27.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	208.76	34.52
<i>For Galvanized Body, Add</i>	55.07	
<i>For Work In Restricted Working Space, Add</i>	29.99	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	282.24	39.44
<i>For Galvanized Body, Add</i>	84.77	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	522.00	49.31
<i>For Galvanized Body, Add</i>	190.56	
<i>For Work In Restricted Working Space, Add</i>	42.27	
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	674.02	61.71
<i>For Galvanized Body, Add</i>	248.96	
<i>For Work In Restricted Working Space, Add</i>	52.83	
23 21 16 00-0036 Flanged, 125 LB, Iron Body , Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	330.31	147.93
<i>For Galvanized Body, Add</i>	72.47	
<i>For Work In Restricted Working Space, Add</i>	55.61	
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	391.66	187.81
<i>For Galvanized Body, Add</i>	78.42	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	673.65	239.52
<i>For Galvanized Body, Add</i>	186.95	
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	927.47	401.54
<i>For Galvanized Body, Add</i>	212.15	
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	979.45	404.43
<i>For Galvanized Body, Add</i>	237.34	
<i>For Work In Restricted Working Space, Add</i>	151.43	
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,153.25	449.37
<i>For Galvanized Body, Add</i>	294.77	
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,874.37	574.19
<i>For Galvanized Body, Add</i>	580.55	
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,461.63	699.02
<i>For Galvanized Body, Add</i>	1,293.93	
<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	3,939.04	624.12
<i>For Galvanized Body, Add</i>	1,345.40	
<i>For Work In Restricted Working Space, Add</i>	374.47	
23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	73.12	16.07
<i>For 300 LB Rating, Add</i>	46.46	
<i>For Work In Restricted Working Space, Add</i>	13.74	
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	97.52	21.70
<i>For 300 LB Rating, Add</i>	60.40	
<i>For Work In Restricted Working Space, Add</i>	18.60	
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	118.73	25.92
<i>For 300 LB Rating, Add</i>	76.09	
<i>For Work In Restricted Working Space, Add</i>	22.19	
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	147.62	32.05
<i>For 300 LB Rating, Add</i>	95.27	
<i>For Work In Restricted Working Space, Add</i>	27.47	
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	171.41	34.52
<i>For 300 LB Rating, Add</i>	123.73	
<i>For Work In Restricted Working Space, Add</i>	29.59	
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	230.93	39.44
<i>For 300 LB Rating, Add</i>	200.97	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	335.99	49.31
<i>For 300 LB Rating, Add</i>	331.67	
<i>For Work In Restricted Working Space, Add</i>	42.27	
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	580.63	61.71
<i>For 300 LB Rating, Add</i>	687.68	
<i>For Work In Restricted Working Space, Add</i>	52.83	
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	979.04	73.97
<i>For 300 LB Rating, Add</i>	1,305.09	
<i>For Work In Restricted Working Space, Add</i>	63.40	
23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	574.38	187.81
<i>For 300 LB Rating, Add</i>	203.74	
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	602.12	204.29
<i>For 300 LB Rating, Add</i>	207.58	
<i>For Work In Restricted Working Space, Add</i>	76.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0059	EA		3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	695.92	239.52
			<i>For 300 LB Rating, Add</i>	237.70	
			<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0060	EA		4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,465.78	401.54
			<i>For 300 LB Rating, Add</i>	577.56	
			<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0061	EA		6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	2,022.86	449.37
			<i>For 300 LB Rating, Add</i>	875.48	
			<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0062	EA		8" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	3,203.41	574.19
			<i>For 300 LB Rating, Add</i>	1,494.08	
			<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0063	EA		10" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	9,811.19	699.02
			<i>For 300 LB Rating, Add</i>	5,362.45	
			<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0064			Cast Iron Body, Suction Diffusers <small>(23 21 16)</small>		
			Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065	EA		2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	499.51	55.51
			<i>For Work In Restricted Working Space, Add</i>	27.18	
23 21 16 00-0066	EA		2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	525.92	61.57
			<i>For Work In Restricted Working Space, Add</i>	30.19	
23 21 16 00-0067	EA		2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	535.08	64.66
			<i>For Work In Restricted Working Space, Add</i>	31.71	
23 21 16 00-0068	EA		2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,024.94	204.29
			<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0069	EA		3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	556.23	75.24
			<i>For Work In Restricted Working Space, Add</i>	36.83	
23 21 16 00-0070	EA		3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	625.75	75.24
			<i>For Work In Restricted Working Space, Add</i>	36.83	
23 21 16 00-0071	EA		3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,075.36	222.37
			<i>For Work In Restricted Working Space, Add</i>	83.39	
23 21 16 00-0072	EA		3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,101.25	239.52
			<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0073	EA		4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,346.08	321.18
			<i>For Work In Restricted Working Space, Add</i>	120.44	
23 21 16 00-0074	EA		4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,590.92	401.54
			<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0075	EA		6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,805.15	403.81
			<i>For Work In Restricted Working Space, Add</i>	151.43	
23 21 16 00-0076	EA		6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	2,170.79	449.37
			<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0077	EA		8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	2,471.65	574.19
			<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0078	EA		8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	3,735.23	574.19
			<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0079	EA		10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	4,280.11	699.02
			<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0080	EA		10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	4,971.19	699.02
			<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0081			Duplex Strainers <small>(23 21 16)</small>		
23 21 16 00-0082			Iron Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0083			Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small>		
			Note: With brass or stainless steel basket.		
23 21 16 00-0084	EA		3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	767.24	35.08
			<i>For Work In Restricted Working Space, Add</i>	21.06	
23 21 16 00-0085	EA		1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	857.26	40.15
			<i>For Work In Restricted Working Space, Add</i>	24.11	
23 21 16 00-0086	EA		1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,158.03	47.20
			<i>For Work In Restricted Working Space, Add</i>	28.30	
23 21 16 00-0087	EA		1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,453.34	51.43
			<i>For Work In Restricted Working Space, Add</i>	30.86	
23 21 16 00-0088	EA		2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,944.61	62.69
			<i>For Work In Restricted Working Space, Add</i>	37.74	
23 21 16 00-0089	EA		2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,447.69	80.31
			<i>For Work In Restricted Working Space, Add</i>	48.17	
23 21 16 00-0090			Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small>		
			Note: With brass or stainless steel basket.		
23 21 16 00-0091	EA		2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,667.15	187.81
			<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0092	EA		2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,761.10	204.29
			<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0093	EA		3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	3,530.77	239.52
			<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0094	EA		4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	5,528.29	355.75
			<i>For Work In Restricted Working Space, Add</i>	133.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,728.70 169.12	449.37
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	20,317.17 213.98	574.19
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	28,028.79 262.13	699.02
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	31,967.57 528.92	881.26
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	37,842.17 374.47	998.60
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	47,260.68 411.92	1,098.45
23 21 16 00-0101 Bronze Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,413.44 21.06	35.22
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,568.81 24.11	40.15
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,290.70 28.30	47.20
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,007.13 30.86	51.43
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,883.21 37.74	62.69
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,771.11 48.17	80.31
23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,462.52 70.45	187.81
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,629.08 76.85	204.29
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,705.67 89.93	239.52
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	12,135.53 133.74	355.75
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	26,266.60 169.12	449.37
23 21 16 00-0115 Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,194.52 24.11	40.15
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,701.78 28.30	47.20
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,203.62 30.86	51.43
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,411.16 37.74	62.69
23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,555.42 70.45	187.81
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,105.29 76.85	204.29
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,016.39 89.93	239.52
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	11,756.48 133.74	355.75
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	20,013.85 169.12	449.37
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	38,908.83 213.98	574.19
23 21 16 00-0128 Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0130	EA		1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,462.10 24.11	40.15
23 21 16 00-0131	EA		1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,636.39 28.30	47.20
23 21 16 00-0132	EA		1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,797.16 30.86	51.43
23 21 16 00-0133	EA		2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,877.23 37.74	62.69
23 21 16 00-0134			Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		
23 21 16 00-0135	EA		2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	11,432.54 70.45	187.81
23 21 16 00-0136	EA		2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,021.88 76.85	204.29
23 21 16 00-0137	EA		3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	18,800.34 89.93	239.52
23 21 16 00-0138	EA		4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	23,003.52 133.74	355.75
23 21 16 00-0139	EA		6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	40,323.73 169.12	449.37
23 21 16 00-0140	EA		8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	74,391.01 213.98	574.19
23 21 16 00-0141			Pressure Regulating Valve <small>(23 21 16)</small>		
23 21 16 00-0142			Screwed Ends, Iron Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small> Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating		
23 21 16 00-0143	EA		1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	231.95 21.13	17.61
23 21 16 00-0144	EA		3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	284.12 23.48	19.72
23 21 16 00-0145	EA		1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	369.87 24.86	21.13
23 21 16 00-0146	EA		1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	624.44 28.17	23.66
23 21 16 00-0147	EA		1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	844.53 33.80	28.17
23 21 16 00-0148	EA		2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,212.55 51.87	43.18
23 21 16 00-0149	EA		2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,320.32 58.36	48.63
23 21 16 00-0150	EA		3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,451.24 64.84	140.70
23 21 16 00-0151			Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0141)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0152			Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153	EA		1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	385.45 28.37	23.67
23 21 16 00-0154	EA		3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	486.09 40.25	33.53
23 21 16 00-0155	EA		1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	622.94 49.15	40.85
23 21 16 00-0156	EA		1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	827.28 57.12	49.60
23 21 16 00-0157	EA		1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,102.15 65.03	56.36
23 21 16 00-0158	EA		2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,290.44 78.71	78.71
23 21 16 00-0159			Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160	EA		2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,896.07 71.55	190.21
23 21 16 00-0161	EA		3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,597.33 83.73	223.00
23 21 16 00-0162	EA		4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,650.66 140.55	373.86
23 21 16 00-0163	EA		6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	11,412.77 156.19	415.01
23 21 16 00-0164			Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0141)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0165				Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166	EA			1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,080.25	17.19
				<i>For Work In Restricted Working Space, Add</i>	25.78	
23 21 16 00-0167	EA			3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,123.50	17.19
				<i>For Work In Restricted Working Space, Add</i>	25.78	
23 21 16 00-0168	EA			1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,266.19	21.70
				<i>For Work In Restricted Working Space, Add</i>	32.55	
23 21 16 00-0169	EA			1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,665.80	27.61
				<i>For Work In Restricted Working Space, Add</i>	41.42	
23 21 16 00-0170	EA			1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	3,052.16	31.84
				<i>For Work In Restricted Working Space, Add</i>	47.76	
23 21 16 00-0171	EA			2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	3,781.96	37.47
				<i>For Work In Restricted Working Space, Add</i>	56.22	
23 21 16 00-0172				Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0173	EA			2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	4,674.04	190.21
				<i>For Work In Restricted Working Space, Add</i>	71.55	
23 21 16 00-0174	EA			3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	5,762.25	223.00
				<i>For Work In Restricted Working Space, Add</i>	83.73	
23 21 16 00-0175	EA			4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	8,738.88	373.86
				<i>For Work In Restricted Working Space, Add</i>	140.55	
23 21 16 00-0176	EA			6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	19,074.92	415.01
				<i>For Work In Restricted Working Space, Add</i>	156.19	
23 21 16 00-0177				Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
23 21 16 00-0178	EA			1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	258.51	18.31
23 21 16 00-0179	EA			3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	317.97	20.28
23 21 16 00-0180	EA			1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	417.06	21.55
23 21 16 00-0181	EA			1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	711.67	24.51
23 21 16 00-0182	EA			1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	964.83	29.29
23 21 16 00-0183	EA			2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,383.49	44.87
23 21 16 00-0184	EA			2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,498.94	48.88
23 21 16 00-0185	EA			3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	1,654.33	56.28
23 21 16 00-0186				Screwed Ends, Bronze Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
				Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187	EA			1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	191.38	17.61
23 21 16 00-0188	EA			3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	210.55	19.72
23 21 16 00-0189	EA			1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	257.72	21.83
23 21 16 00-0190	EA			1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	582.98	23.66
23 21 16 00-0191	EA			1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	634.83	28.17
23 21 16 00-0192	EA			2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	996.42	43.18
23 21 16 00-0193				Dual Unit Reducing And Relief Valve <small>(23 21 16)</small>		
23 21 16 00-0194	EA			1/2" Dual Unit Reducing And Relief Valve.....	217.79	42.98
23 21 16 00-0195				Safety Relief Valve <small>(23 21 16)</small>		
				Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196				Threaded Inlet, Bronze Body Safety Valves <small>(23 21 16 00-0195)</small>		
				Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197	EA			1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve.....	91.36	17.61
23 21 16 00-0198	EA			3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve.....	121.55	19.37
23 21 16 00-0199	EA			1" x 1" Threaded Inlet, Bronze Body Safety Valve.....	171.19	23.59
23 21 16 00-0200	EA			1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve.....	215.88	25.00
23 21 16 00-0201	EA			1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve.....	296.28	33.45
23 21 16 00-0202	EA			2" x 2" Threaded Inlet, Bronze Body Safety Valve.....	392.02	39.43
23 21 16 00-0203	EA			2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve.....	449.09	49.30
23 21 16 00-0204				Threaded, Bronze Body, Temperature And Pressure Relief Valves <small>(23 21 16)</small>		
23 21 16 00-0205	EA			1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	97.43	35.91
				<i>For Cast Iron Body, Add</i>	48.44	
23 21 16 00-0206	EA			3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	124.41	43.10
				<i>For Cast Iron Body, Add</i>	67.48	
23 21 16 00-0207	EA			1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	179.88	57.46
				<i>For Cast Iron Body, Add</i>	107.48	
23 21 16 00-0208	EA			1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	283.34	61.55
				<i>For Cast Iron Body, Add</i>	228.41	
23 21 16 00-0209	EA			1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	462.19	69.01
				<i>For Cast Iron Body, Add</i>	436.95	
23 21 16 00-0210	EA			2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve.....	542.74	99.20
				<i>For Cast Iron Body, Add</i>	475.80	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 16 00-0211		Horizontal Steel Expansion Tanks ^(23 21 16)		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.				
23 21 16 00-0212	EA	10 Gallon Horizontal Steel Expansion Tank.....	628.53	140.89
23 21 16 00-0213	EA	15 Gallon Horizontal Steel Expansion Tank.....	872.35	176.11
23 21 16 00-0214	EA	30 Gallon Horizontal Steel Expansion Tank.....	1,129.20	211.34
23 21 16 00-0215	EA	40 Gallon Horizontal Steel Expansion Tank.....	1,302.20	246.56
23 21 16 00-0216	EA	60 Gallon Horizontal Steel Expansion Tank.....	1,473.43	249.64
23 21 16 00-0217		Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.				
23 21 16 00-0218	EA	7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,563.51	105.67
23 21 16 00-0219	EA	10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,638.02	123.27
23 21 16 00-0220	EA	21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,424.45	140.89
23 21 16 00-0221	EA	33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,529.01	158.50
23 21 16 00-0222	EA	44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,412.52	176.11
23 21 16 00-0223	EA	55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,602.61	193.72
23 21 16 00-0224	EA	68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,275.77	211.34
23 21 16 00-0225	EA	77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,576.81	228.94
23 21 16 00-0226	EA	90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,041.96	246.56
23 21 16 00-0227	EA	110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,195.60	281.78
23 21 16 00-0228	EA	132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,502.64	317.00
23 21 16 00-0229	EA	158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,451.42	352.23
23 21 16 00-0230	EA	211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	8,655.56	422.67
23 21 16 00-0231		Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX)		
^(23 21 16)				
Note: ASME. Precharged with working pressure 125 psi				
23 21 16 00-0232	EA	8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,776.16	105.67
23 21 16 00-0233	EA	11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,839.11	123.27
23 21 16 00-0234	EA	22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,618.61	140.89
23 21 16 00-0235	EA	34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,799.44	158.50
23 21 16 00-0236	EA	44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,548.90	176.11
23 21 16 00-0237	EA	56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,736.67	193.72
23 21 16 00-0238	EA	67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,546.21	211.34
23 21 16 00-0239	EA	77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,914.28	228.94
23 21 16 00-0240	EA	91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,432.58	246.56
23 21 16 00-0241	EA	111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,579.29	281.78
23 21 16 00-0242	EA	132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,851.67	317.00
23 21 16 00-0243	EA	158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,943.74	352.23
23 21 16 00-0244	EA	211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,157.13	422.67
23 21 16 00-0245		Diaphragm Type (Residential Style) Steel Expansion Tanks ^(23 21 16)		
23 21 16 00-0246	EA	2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	91.79	12.97
23 21 16 00-0247	EA	4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	128.10	12.97
23 21 16 00-0248		Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks ^(23 21 16)		
23 21 16 00-0249	EA	15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,215.96	422.81
23 21 16 00-0250	EA	20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,253.64	422.81
23 21 16 00-0251	EA	30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,291.31	422.81
23 21 16 00-0252	EA	40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,389.26	422.81
23 21 16 00-0253	EA	47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,704.45	563.41
23 21 16 00-0254	EA	60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,930.28	563.70
23 21 16 00-0255	EA	80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,975.03	563.70
23 21 16 00-0256	EA	87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,019.78	704.44
23 21 16 00-0257	EA	120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,560.21	704.44
23 21 16 00-0258	EA	187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	6,354.52	845.06
23 21 16 00-0259	EA	264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,043.38	845.06
23 21 16 00-0260		ASME Construction Compression Tanks ^(23 21 16)		
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.				
23 21 16 00-0261	EA	15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	974.26	247.97
		<i>For Galvanized Steel Tanks, Add</i>	299.28	
23 21 16 00-0262	EA	24 Gallon, 13" x 51" ASME Construction Compression Tank	994.82	255.01
		<i>For Galvanized Steel Tanks, Add</i>	303.69	
23 21 16 00-0263	EA	30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,077.91	263.47
		<i>For Galvanized Steel Tanks, Add</i>	338.90	
23 21 16 00-0264	EA	40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,172.61	273.33
		<i>For Galvanized Steel Tanks, Add</i>	378.50	
23 21 16 00-0265	EA	60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,352.19	288.82
		<i>For Galvanized Steel Tanks, Add</i>	457.72	
23 21 16 00-0266	EA	80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,405.13	300.10
		<i>For Galvanized Steel Tanks, Add</i>	475.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0267 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	1,717.87 611.76	326.87
23 21 16 00-0268 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	1,869.59 668.97	350.82
23 21 16 00-0269 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	2,306.39 853.43	395.90
23 21 16 00-0270 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	2,905.44 1,109.09	453.66
23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	3,460.55 1,349.50	502.97
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	3,783.01 1,477.13	546.65
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,734.63 1,912.84	600.19
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,895.69 1,962.02	641.05
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,241.86 2,599.12	688.95
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	10,231.36 4,503.12	808.70
23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	211.73	39.44
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings	649.47	46.50
23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	77.44	22.73
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	94.57	30.63
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	126.13	37.08
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	183.23	46.97
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	77.44	22.73
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	94.57	30.63
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	126.13	37.08
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	183.23	46.97
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	93.53	17.61
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	137.61	24.66
23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	133.19	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	165.89	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	165.84	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	189.22	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	431.83	
23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,323.83	300.10
<i>For 300 PSIG, Add</i>	130.40	
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	1,622.64	343.77
<i>For 300 PSIG, Add</i>	165.12	
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	2,423.27	404.36
<i>For 300 PSIG, Add</i>	271.61	
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)	2,587.96	428.12
<i>For 300 PSIG, Add</i>	290.90	
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)	3,349.46	570.83
<i>For 300 PSIG, Add</i>	372.69	
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F)	4,201.83	679.05
<i>For 300 PSIG, Add</i>	476.08	
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F)	4,966.47	768.91
<i>For 300 PSIG, Add</i>	570.22	
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F)	7,046.19	922.45
<i>For 300 PSIG, Add</i>	847.22	
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F)	10,652.48	1,048.52
<i>For 300 PSIG, Add</i>	1,359.57	
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F)	14,339.26	1,356.84
<i>For 300 PSIG, Add</i>	1,842.50	
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	29,258.18	1,647.68
<i>For 300 PSIG, Add</i>	4,014.26	
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	36,090.70	1,977.21
<i>For 300 PSIG, Add</i>	4,964.24	
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	46,947.13	2,306.75
<i>For 300 PSIG, Add</i>	6,517.81	
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	54,897.27	2,636.29
<i>For 300 PSIG, Add</i>	7,635.44	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0312			Vortex Air Separators ^(23 21 16) Note: Without system strainer.		
23 21 16 00-0313	EA		2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	1,154.08	300.10
			<i>For 300 PSIG, Add</i>	104.94	
23 21 16 00-0314	EA		2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N).....	1,437.46	343.77
			<i>For 300 PSIG, Add</i>	137.35	
23 21 16 00-0315	EA		3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	2,376.98	404.36
			<i>For 300 PSIG, Add</i>	264.66	
23 21 16 00-0316	EA		3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F).....	2,181.58	428.12
			<i>For 300 PSIG, Add</i>	229.94	
23 21 16 00-0317	EA		4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	2,922.51	570.83
			<i>For 300 PSIG, Add</i>	308.64	
23 21 16 00-0318	EA		5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	3,754.30	679.05
			<i>For 300 PSIG, Add</i>	408.95	
23 21 16 00-0319	EA		6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	4,359.47	768.91
			<i>For 300 PSIG, Add</i>	479.17	
23 21 16 00-0320	EA		8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F).....	5,749.89	922.45
			<i>For 300 PSIG, Add</i>	652.78	
23 21 16 00-0321	EA		10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F).....	7,879.84	1,048.52
			<i>For 300 PSIG, Add</i>	943.67	
23 21 16 00-0322	EA		12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F).....	12,009.65	1,356.84
			<i>For 300 PSIG, Add</i>	1,493.06	
23 21 16 00-0323	EA		14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F).....	20,103.36	1,647.68
			<i>For 300 PSIG, Add</i>	2,641.03	
23 21 16 00-0324	EA		16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F).....	25,411.85	1,977.21
			<i>For 300 PSIG, Add</i>	3,362.41	
23 21 16 00-0325	EA		18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F).....	33,802.29	2,306.75
			<i>For 300 PSIG, Add</i>	4,546.08	
23 21 16 00-0326	EA		20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F).....	45,958.36	2,636.29
			<i>For 300 PSIG, Add</i>	6,294.60	
23 21 16 00-0327	EA		22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F).....	56,144.83	2,965.83
			<i>For 300 PSIG, Add</i>	7,747.67	
23 21 16 00-0328	EA		24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F).....	66,331.30	3,295.35
			<i>For 300 PSIG, Add</i>	9,200.75	
23 21 16 00-0329			Grooved, With Strainer, Vortex Air Separators ^(23 21 16)		
23 21 16 00-0330	EA		3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	2,252.48	342.49
23 21 16 00-0331	EA		4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	3,176.05	456.38
23 21 16 00-0332	EA		5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	3,996.21	542.73
23 21 16 00-0333	EA		6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	4,733.38	615.14
23 21 16 00-0334	EA		8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	6,756.29	738.16
23 21 16 00-0335	EA		10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	10,735.94	838.82
23 21 16 00-0336	EA		12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	16,245.92	1,085.60
23 21 16 00-0337			Grooved Vortex Air Separators ^(23 21 16) Note: Without system strainer.		
23 21 16 00-0338	EA		3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,830.67	342.49
23 21 16 00-0339	EA		4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	2,749.10	456.38
23 21 16 00-0340	EA		5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G).....	3,548.68	542.73
23 21 16 00-0341	EA		6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	4,126.38	615.14
23 21 16 00-0342	EA		8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	5,470.28	738.16
23 21 16 00-0343	EA		10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	7,922.15	838.82
23 21 16 00-0344	EA		12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	13,000.99	1,085.60
23 21 16 00-0345			Removable Head, Air Eliminator And Dirt Separator ^(23 21 16) Note: Spirovent VDN.		
23 21 16 00-0346	EA		2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,554.05	300.10
23 21 16 00-0347	EA		2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,856.46	343.77
23 21 16 00-0348	EA		3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,126.34	404.36
23 21 16 00-0349	EA		4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,924.43	619.91
23 21 16 00-0350	EA		5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	8,596.98	766.44
23 21 16 00-0351	EA		6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	11,015.41	867.88
23 21 16 00-0352	EA		8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	17,072.04	195.84
23 21 16 00-0353	EA		10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	25,061.00	1,183.48
23 21 16 00-0354	EA		12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	32,392.00	1,531.47
23 21 16 00-0355			Swivel Joints ^(23 21 16)		
23 21 16 00-0356			Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) ^(23 21 16 00-0356) Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357	EA		1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	333.50	37.05
23 21 16 00-0358	EA		1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	479.72	54.24
23 21 16 00-0359	EA		2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	665.93	63.40
23 21 16 00-0360	EA		3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,000.39	108.49
23 21 16 00-0361	EA		3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,270.08	149.83
23 21 16 00-0362	EA		4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,650.77	401.53
23 21 16 00-0363	EA		6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	2,981.32	507.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0364 Basket Strainers <small>(23 21 16)</small>		
23 21 16 00-0365 Bronze Body Basket Strainers <small>(23 21 16 00-0364)</small>		
23 21 16 00-0366 Screwed Ends, Bronze Body Basket Strainers <small>(23 21 16 00-0365)</small>		
23 21 16 00-0367 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	278.09	28.18
<i>For Work In Restricted Working Space, Add</i>	16.77	
23 21 16 00-0368 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	328.53	33.11
<i>For Work In Restricted Working Space, Add</i>	19.71	
23 21 16 00-0369 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	381.78	39.44
<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0370 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer	472.09	43.68
<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 16 00-0371 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer	555.95	49.31
<i>For Work In Restricted Working Space, Add</i>	29.56	
23 21 16 00-0372 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	817.12	56.36
<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0373 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer	1,153.11	75.38
<i>For Work In Restricted Working Space, Add</i>	45.34	
23 21 16 00-0374 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	1,605.17	80.31
<i>For Work In Restricted Working Space, Add</i>	48.09	
23 21 16 00-0375 Flanged, Bronze Body Basket Strainers <small>(23 21 16 00-0365)</small>		
23 21 16 00-0376 EA 2" Flanged, Bronze Body Basket Strainer.....	1,302.14	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0377 EA 2-1/2" Flanged, Bronze Body Basket Strainer	1,926.12	204.29
<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0378 EA 3" Flanged, Bronze Body Basket Strainer.....	2,187.54	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0379 EA 4" Flanged, Bronze Body Basket Strainer.....	3,697.89	401.54
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0380 EA 6" Flanged, Bronze Body Basket Strainer.....	6,880.53	449.37
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0381 EA 8" Flanged, Bronze Body Basket Strainer.....	12,439.31	574.19
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0382 Iron Body Basket Strainers <small>(23 21 16 00-0364)</small>		
23 21 16 00-0383 Screwed Ends, Iron Body Basket Strainers <small>(23 21 16 00-0382)</small>		
23 21 16 00-0384 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....	365.10	28.18
<i>For Work In Restricted Working Space, Add</i>	16.77	
23 21 16 00-0385 EA 3/4" Screwed Ends, Iron Body Basket Strainer.....	411.76	33.11
<i>For Work In Restricted Working Space, Add</i>	19.71	
23 21 16 00-0386 EA 1" Screwed Ends, Iron Body Basket Strainer.....	486.75	39.44
<i>For Work In Restricted Working Space, Add</i>	23.48	
23 21 16 00-0387 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer.....	634.74	43.68
<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 16 00-0388 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer.....	697.06	49.31
<i>For Work In Restricted Working Space, Add</i>	29.56	
23 21 16 00-0389 EA 2" Screwed Ends, Iron Body Basket Strainer.....	827.66	56.36
<i>For Work In Restricted Working Space, Add</i>	33.85	
23 21 16 00-0390 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer.....	1,172.31	75.38
<i>For Work In Restricted Working Space, Add</i>	45.34	
23 21 16 00-0391 EA 3" Screwed Ends, Iron Body Basket Strainer.....	1,323.30	80.31
<i>For Work In Restricted Working Space, Add</i>	48.09	
23 21 16 00-0392 Flanged, Iron Body Basket Strainers <small>(23 21 16 00-0382)</small>		
23 21 16 00-0393 EA 2" Flanged, Iron Body Basket Strainer.....	860.38	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
23 21 16 00-0394 EA 2-1/2" Flanged, Iron Body Basket Strainer.....	1,099.31	204.29
<i>For Work In Restricted Working Space, Add</i>	76.85	
23 21 16 00-0395 EA 3" Flanged, Iron Body Basket Strainer.....	1,197.30	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
23 21 16 00-0396 EA 4" Flanged, Iron Body Basket Strainer.....	1,854.03	401.54
<i>For Work In Restricted Working Space, Add</i>	150.95	
23 21 16 00-0397 EA 6" Flanged, Iron Body Basket Strainer.....	3,192.89	449.37
<i>For Work In Restricted Working Space, Add</i>	169.12	
23 21 16 00-0398 EA 8" Flanged, Iron Body Basket Strainer.....	5,563.64	574.19
<i>For Work In Restricted Working Space, Add</i>	213.98	
23 21 16 00-0399 EA 10" Flanged, Iron Body Basket Strainer.....	8,171.98	699.02
<i>For Work In Restricted Working Space, Add</i>	262.13	
23 21 16 00-0400 EA 12" Flanged, Iron Body Basket Strainer.....	10,420.47	881.26
<i>For Work In Restricted Working Space, Add</i>	528.70	
23 21 16 00-0401 EA 14" Flanged, Iron Body Basket Strainer.....	12,172.89	998.60
<i>For Work In Restricted Working Space, Add</i>	374.47	
23 21 16 00-0402 EA 16" Flanged, Iron Body Basket Strainer.....	12,796.35	1,098.45
<i>For Work In Restricted Working Space, Add</i>	411.92	
23 21 16 00-0403 Cast Steel Body Basket Strainers <small>(23 21 16 00-0364)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0404 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0403)		
23 21 16 00-0405 EA 1" Screwed Ends, Cast Steel Body Basket Strainer	786.40	39.44
For Work In Restricted Working Space, Add	23.48	
23 21 16 00-0406 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer	1,032.43	43.68
For Work In Restricted Working Space, Add	26.18	
23 21 16 00-0407 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer	1,163.68	49.31
For Work In Restricted Working Space, Add	29.55	
23 21 16 00-0408 EA 2" Screwed Ends, Cast Steel Body Basket Strainer	1,628.07	56.36
For Work In Restricted Working Space, Add	33.85	
23 21 16 00-0409 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer	2,281.46	75.38
For Work In Restricted Working Space, Add	45.33	
23 21 16 00-0410 EA 3" Screwed Ends, Cast Steel Body Basket Strainer	2,950.78	80.31
For Work In Restricted Working Space, Add	48.10	
23 21 16 00-0411 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0403)		
23 21 16 00-0412 EA 2" Flanged, Cast Steel Body Basket Strainer.....	2,440.19	187.81
For Work In Restricted Working Space, Add	70.45	
23 21 16 00-0413 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer	3,481.70	204.29
For Work In Restricted Working Space, Add	76.85	
23 21 16 00-0414 EA 3" Flanged, Cast Steel Body Basket Strainer.....	3,825.35	239.52
For Work In Restricted Working Space, Add	89.93	
23 21 16 00-0415 EA 4" Flanged, Cast Steel Body Basket Strainer.....	5,454.00	401.54
For Work In Restricted Working Space, Add	150.95	
23 21 16 00-0416 EA 6" Flanged, Cast Steel Body Basket Strainer.....	9,490.21	449.37
For Work In Restricted Working Space, Add	169.12	
23 21 16 00-0417 EA 8" Flanged, Cast Steel Body Basket Strainer.....	15,340.72	574.19
For Work In Restricted Working Space, Add	213.98	
23 21 16 00-0418 Stainless Steel Body Basket Strainers (23 21 16 00-0364)		
23 21 16 00-0419 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0418)		
23 21 16 00-0420 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer	481.33	39.44
For Work In Restricted Working Space, Add	23.48	
23 21 16 00-0421 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer	683.87	43.68
For Work In Restricted Working Space, Add	26.18	
23 21 16 00-0422 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer	709.07	49.31
For Work In Restricted Working Space, Add	29.55	
23 21 16 00-0423 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer	1,036.65	56.36
For Work In Restricted Working Space, Add	33.85	
23 21 16 00-0424 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer	1,462.02	75.38
For Work In Restricted Working Space, Add	45.33	
23 21 16 00-0425 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer	2,045.89	80.31
For Work In Restricted Working Space, Add	48.10	
23 21 16 00-0426 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0418)		
23 21 16 00-0427 EA 2" Flanged, Stainless Steel Body Basket Strainer	1,609.59	187.81
For Work In Restricted Working Space, Add	70.45	
23 21 16 00-0428 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer	2,397.13	204.29
For Work In Restricted Working Space, Add	76.85	
23 21 16 00-0429 EA 3" Flanged, Stainless Steel Body Basket Strainer	2,718.08	239.52
For Work In Restricted Working Space, Add	89.93	
23 21 16 00-0430 EA 4" Flanged, Stainless Steel Body Basket Strainer	4,593.58	401.54
For Work In Restricted Working Space, Add	150.95	
23 21 16 00-0431 EA 6" Flanged, Stainless Steel Body Basket Strainer	6,948.73	449.37
For Work In Restricted Working Space, Add	169.12	
23 21 16 00-0432 EA 8" Flanged, Stainless Steel Body Basket Strainer	11,966.86	574.19
For Work In Restricted Working Space, Add	213.98	
23 21 16 00-0433 Air Vents (23 21 16)		
23 21 16 00-0434 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0433)		
Note: With guided free floating lever.		
23 21 16 00-0435 EA 1/2" NPT, Cast Iron, Automatic Air Vent	336.52	40.85
23 21 16 00-0436 EA 3/4" NPT, Cast Iron, Automatic Air Vent	413.15	54.24
23 21 16 00-0437 EA 1" NPT, Cast Iron, Automatic Air Vent	919.43	56.36
23 21 16 00-0438 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,364.46	87.07
23 21 16 00-0439 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	2,257.98	93.69
23 21 16 00-0440 EA 2" NPT, Cast Iron, Automatic Air Vent	2,598.02	123.56
23 21 16 00-0441 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0433)		
Note: With guided free floating lever.		
23 21 16 00-0442 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,594.56	47.20
23 21 16 00-0443 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,994.97	54.24
23 21 16 00-0444 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,374.45	56.36
23 21 16 00-0445 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,891.87	87.35
23 21 16 00-0446 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	4,490.11	93.69
23 21 16 00-0447 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	6,590.80	123.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0448 Automatic Air Vent <small>(23 21 16 00-0433)</small>		
23 21 16 00-0449 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	235.43	54.24
23 21 16 00-0450 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	255.90	56.36
23 21 16 00-0451 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	366.89	87.07
23 21 16 00-0452 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	444.77	93.69
23 21 16 00-0453 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	555.88	100.96
23 21 16 00-0454 Manual Air Vent <small>(23 21 16 00-0433)</small>		
23 21 16 00-0455 EA Manual Air Vent	102.86	50.86
23 21 16 00-0456 Air Release Valves <small>(23 21 16 00-0433)</small>		
23 21 16 00-0457 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) <small>(23 21 16 00-0456)</small>		
Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0458 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	186.73	21.14
23 21 16 00-0459 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	192.37	23.95
23 21 16 00-0460 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	203.63	29.59
23 21 16 00-0461 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) <small>(23 21 16 00-0456)</small>		
Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0462 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....	734.23	29.59
23 21 16 00-0463 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	889.35	51.43
23 21 16 00-0464 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	1,170.26	119.90
23 21 16 00-0465 Cast Iron, Air/Vacuum Valves <small>(23 21 16 00-0456)</small>		
Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0466 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	358.70	21.14
23 21 16 00-0467 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	444.39	29.59
23 21 16 00-0468 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	767.82	51.43
23 21 16 00-0469 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,115.23	119.90
23 21 16 00-0470 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,748.92	201.27
23 21 16 00-0471 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,645.53	254.51
23 21 16 00-0472 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0456)</small>		
Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0473 EA 1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	637.01	29.59
23 21 16 00-0474 EA 2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	981.07	51.43
23 21 16 00-0475 EA 3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C)	1,791.67	119.90
23 21 16 00-0476 EA 4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,338.22	201.27
23 21 23 Hydronic Pumps <small>(23 21)</small>		
23 21 23 13 In-Line Centrifugal Hydronic Pumps <small>(23 21 23)</small>		
23 21 23 13-0001 Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small>		
Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002 EA 3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,205.62	376.23
<i>For Mechanical Seal, Add</i>		
	326.20	
<i>For Cast Steel Case, Add</i>		
	733.95	
23 21 23 13-0003 EA 5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	5,736.80	455.36
<i>For Mechanical Seal, Add</i>		
	349.69	
<i>For Cast Steel Case, Add</i>		
	786.81	
23 21 23 13-0004 EA 7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	6,647.96	540.99
<i>For Mechanical Seal, Add</i>		
	402.10	
<i>For Cast Steel Case, Add</i>		
	904.73	
23 21 23 13-0005 EA 10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	7,582.15	721.32
<i>For Mechanical Seal, Add</i>		
	433.59	
<i>For Cast Steel Case, Add</i>		
	975.59	
23 21 23 13-0006 EA 15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump	8,644.95	786.18
<i>For Mechanical Seal, Add</i>		
	502.89	
<i>For Cast Steel Case, Add</i>		
	1,131.51	
23 21 23 13-0007 EA 30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	12,556.90	865.32
<i>For Mechanical Seal, Add</i>		
	796.98	
<i>For Cast Steel Case, Add</i>		
	1,793.20	
23 21 23 13-0008 EA 40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	14,831.89	1,080.68
<i>For Mechanical Seal, Add</i>		
	927.08	
<i>For Cast Steel Case, Add</i>		
	2,085.94	
23 21 23 13-0009 EA 50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	20,316.19	1,235.06
<i>For Mechanical Seal, Add</i>		
	1,328.76	
<i>For Cast Steel Case, Add</i>		
	2,989.71	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 13-0010 EA 75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	25,513.89	1,294.43
For Mechanical Seal, Add	1,730.44	
For Cast Steel Case, Add	3,893.48	
23 21 23 13-0011 EA 100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	28,155.13	1,663.91
For Mechanical Seal, Add	1,852.97	
For Cast Steel Case, Add	4,169.19	
23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump <small>(23 21 23 13)</small>		
Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.		
23 21 23 13-0013 EA 1/2 HP, 1-1/2' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,049.46	216.01
23 21 23 13-0014 EA 3/4 HP, 2' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,498.44	246.89
23 21 23 13-0015 EA 1 HP, 3' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,809.79	276.46
23 21 23 13-0016 EA 1-1/2 HP, 3' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,015.46	300.59
23 21 23 13-0017 EA 2 HP, 4' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,190.86	329.14
23 21 23 13-0018 EA 3 HP, 5' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,361.60	363.77
23 21 23 13-0019 EA 5 HP, 6' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,144.57	432.01
23 21 23 13-0020 EA 7-1/2 HP, 6' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,177.74	531.78
23 21 23 13-0021 EA 10 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,133.99	576.01
23 21 23 13-0022 EA 15 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	10,614.40	609.87
23 21 23 13-0023 EA 20 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	13,508.20	648.02
23 21 23 13-0024 EA 25 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,240.12	669.69
23 21 23 13-0025 EA 30 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,972.04	691.22
23 21 23 13-0026 EA 40 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	17,699.58	740.65
23 21 23 13-0027 EA 50 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	18,932.10	766.03
23 21 23 13-0028 EA 60 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	21,110.64	1,106.42
23 21 23 13-0029 EA 75 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	25,589.38	2,212.86
23 21 23 13-0030 EA 100 HP, 8' Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	29,497.73	2,655.42
23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps <small>(23 21 23)</small>		
23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small>		
Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002 EA 5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T)	6,186.22	411.26
23 21 23 16-0003 EA 7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T)	6,920.63	411.77
23 21 23 16-0004 EA 10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T)	9,105.64	540.99
23 21 23 16-0005 EA 15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T)	10,023.64	665.53
23 21 23 16-0006 EA 15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T)	11,170.46	665.53
23 21 23 16-0007 EA 20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T)	10,911.57	721.32
23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T)	11,563.58	721.32
23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T)	12,628.06	756.35
23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T)	14,116.66	961.33
23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T)	14,979.57	1,080.68
23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T)	22,920.56	2,326.24
23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T)	32,966.63	2,790.98
23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS)	37,533.96	3,488.73
23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small>		
Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0016 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	4,618.64	302.27
For 300 LB Flanges, Add	1,018.39	
23 21 23 16-0017 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	5,729.67	324.34
For 300 LB Flanges, Add	1,310.79	
23 21 23 16-0018 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	7,157.28	346.39
For 300 LB Flanges, Add	1,645.17	
23 21 23 16-0019 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	8,399.38	411.26
For 300 LB Flanges, Add	1,914.51	
23 21 23 16-0020 EA 7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	8,827.06	411.77
For 300 LB Flanges, Add	2,012.16	
23 21 23 16-0021 EA 10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	9,343.77	540.99
For 300 LB Flanges, Add	2,092.69	
23 21 23 16-0022 EA 10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	9,536.19	540.99
For 300 LB Flanges, Add	2,140.80	
23 21 23 16-0023 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	9,962.41	540.99
For 300 LB Flanges, Add	2,247.35	
23 21 23 16-0024 EA 15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	11,615.39	665.53
For 300 LB Flanges, Add	2,604.46	
23 21 23 16-0025 EA 17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	11,817.51	665.01
For 300 LB Flanges, Add	2,642.92	
23 21 23 16-0026 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	12,445.13	721.32
For 300 LB Flanges, Add	2,786.95	
23 21 23 16-0027 EA 25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	13,639.58	756.35
For 300 LB Flanges, Add	3,059.64	
23 21 23 16-0028 EA 30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	15,209.19	961.33
For 300 LB Flanges, Add	3,369.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0029 EA 40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case <i>For 300 LB Flanges, Add</i>	17,241.36 3,823.84	1,080.68
23 21 23 16-0030 EA 60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case <i>For 300 LB Flanges, Add</i>	27,479.75 5,748.56	2,326.24
23 21 23 16-0031 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case <i>For 300 LB Flanges, Add</i>	32,713.25 6,832.66	2,790.98
23 21 23 16-0032 EA 100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case <i>For 300 LB Flanges, Add</i>	40,000.60 8,318.08	3,488.73
23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small>		
Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	4,453.27 977.04	302.27
23 21 23 16-0035 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	4,589.99 1,001.53	324.34
23 21 23 16-0036 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	4,726.87 1,026.04	346.39
23 21 23 16-0037 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	5,105.36 1,116.83	354.17
23 21 23 16-0038 EA 7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	8,101.20 1,839.97	411.26
23 21 23 16-0039 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	9,770.80 2,232.37	540.99
23 21 23 16-0040 EA 15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	11,007.35 2,508.59	583.80
23 21 23 16-0041 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	11,768.71 2,642.79	648.66
23 21 23 16-0042 EA 25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	12,978.35 2,953.33	647.84
23 21 23 16-0043 EA 40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	14,686.88 3,297.25	832.57
23 21 23 16-0044 EA 50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	18,391.53 4,149.33	930.74
23 21 23 16-0045 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	23,443.90 5,300.29	1,162.50
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP..... <i>For 300 LB Flanges, Add</i>	29,401.45 6,677.53	1,395.49
23 21 23 16-0047 EA 150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	34,719.06 7,932.18	1,549.99
23 21 23 16-0048 EA 200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	40,212.13 9,091.85	1,993.56
23 21 23 16-0049 Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small>		
Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050 EA 40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	26,596.14 6,349.65	665.53
23 21 23 16-0051 EA 50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	28,714.87 6,854.38	721.32
23 21 23 16-0052 EA 75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	38,197.40 9,130.27	915.24
23 21 23 16-0053 EA 100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	44,841.97 10,634.26	1,257.61
23 21 23 16-0054 EA 200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case..... <i>For 300 LB Flanges, Add</i>	62,132.18 14,764.73	1,676.81
23 21 23 16-0055 Cast Iron Close Coupling Pumps <small>(23 21 23 16)</small>		
23 21 23 16-0056 Foot Mounted Cast Iron Close Coupled Pumps <small>(23 21 23 16-0055)</small>		
23 21 23 16-0057 EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM)	5,551.29	389.20
23 21 23 16-0058 EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM)	6,020.33	389.20
23 21 23 16-0059 EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM)	6,680.51	410.83
23 21 23 16-0060 EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM)	7,095.43	410.83
23 21 23 16-0061 EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM)	8,129.30	432.01
23 21 23 16-0062 EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM)	9,639.59	520.11
23 21 23 16-0063 EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP)	12,627.67	640.73
23 21 23 16-0064 EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP)	13,522.89	693.47
23 21 23 16-0065 EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP)	15,627.27	748.94

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0066			Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt (23 21 23 16)		
23 21 23 16-0067	EA		1/3 HP, Centrifugal Pump, Polypropylene Body	1,422.62	201.05
23 21 23 16-0068	EA		1/2 HP, Centrifugal Pump, Polypropylene Body	1,517.06	213.17
23 21 23 16-0069	EA		3/4 HP, Centrifugal Pump, Polypropylene Body	1,758.95	226.97
23 21 23 23			Vertical-Turbine Hydronic Pumps (23 21 23)		
23 21 23 23-0001			Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps (23 21 23 23)		
			Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002	EA		2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage	9,503.80	961.33
			For Each Extra Column Assembly <60", Add	817.96	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	322.49	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	227.45	
23 21 23 23-0003	EA		3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage	10,780.27	1,080.68
			For Each Extra Column Assembly <60", Add	920.55	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	373.09	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	265.28	
23 21 23 23-0004	EA		15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage	12,701.17	930.74
			For Each Extra Column Assembly <60", Add	1,082.84	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	441.30	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	314.29	
23 21 23 23-0005	EA		25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage	14,800.39	1,074.03
			For Each Extra Column Assembly <60", Add	1,253.04	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	523.01	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	375.00	
23 21 23 23-0006	EA		50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage	18,043.65	1,162.50
			For Each Extra Column Assembly <60", Add	1,518.25	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	646.99	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	466.55	
23 21 23 23-0007	EA		100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage	23,570.31	1,395.49
			For Each Extra Column Assembly <60", Add	1,975.34	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	853.10	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	617.40	
23 21 23 23-0008	EA		150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage	28,298.28	1,744.36
			For Each Extra Column Assembly <60", Add	2,376.00	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,019.79	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	736.81	
23 21 23 23-0009	EA		200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage	44,381.86	1,993.56
			For Each Extra Column Assembly <60", Add	3,678.71	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,647.12	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,203.30	
23 21 23 23-0010	EA		250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage	57,856.75	2,326.24
			For Each Extra Column Assembly <60", Add	4,778.06	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	2,164.75	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	1,586.19	
23 21 23 23-0011	EA		300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage	80,449.34	2,790.98
			For Each Extra Column Assembly <60", Add	6,615.37	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	3,038.55	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	2,234.06	
23 21 29			Automatic Condensate Pump Units (23 21)		
23 21 29 00-0001			Automatic Shallow Pan Condensate Pump (23 21 29)		
23 21 29 00-0002	EA		1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS)	249.84	42.16
23 21 29 00-0003	EA		1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS)	270.54	42.16
23 21 29 00-0004	EA		1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS)	419.76	48.65
23 21 29 00-0005			Automatic Condensate Pump With Tank (23 21 29)		
23 21 29 00-0006	EA		1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL)	138.17	32.43
23 21 29 00-0007	EA		1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20)	147.01	32.43
23 21 29 00-0008	EA		1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS)	243.07	42.16
23 21 29 00-0009	EA		1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS)	262.81	48.65
23 21 29 00-0010	EA		1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS)	480.91	55.14
			Condensate Pump		
23 22			Steam and Condensate Piping and Pumps (23 20)		
23 22 16			Steam and Condensate Heating Piping Specialties (23 22)		
23 22 16 00-0001			Steam Temperature Regulator, Iron Body (23 22 16)		
23 22 16 00-0002			Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
			Note: Up to 150 PSI.		
23 22 16 00-0003	EA		1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,289.68	20.28
23 22 16 00-0004	EA		3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,359.71	27.32
23 22 16 00-0005	EA		1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,803.30	33.66



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0006	EA		1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,993.57	42.54
23 22 16 00-0007	EA		1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,048.10	48.87
23 22 16 00-0008	EA		2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,418.01	53.17
23 22 16 00-0009	EA		2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,092.07	97.39
23 22 16 00-0010	EA		3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,444.21	106.20
23 22 16 00-0011	EA		4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,691.90	248.59
23 22 16 00-0012	EA		6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,996.25	291.77
23 22 16 00-0013			Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0001)</small>		
23 22 16 00-0014	EA		1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,907.40	20.28
23 22 16 00-0015	EA		3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,978.38	27.32
23 22 16 00-0016	EA		1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,068.96	33.66
23 22 16 00-0017	EA		1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,477.58	42.54
23 22 16 00-0018	EA		1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,655.85	48.87
23 22 16 00-0019	EA		2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,014.82	53.17
23 22 16 00-0020	EA		2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,627.82	97.39
23 22 16 00-0021	EA		3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,335.16	106.20
23 22 16 00-0022	EA		4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,736.37	248.59
23 22 16 00-0023	EA		6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,520.24	291.77
23 22 16 00-0024			Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0001)</small>		
23 22 16 00-0025	EA		1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,596.14	20.28
23 22 16 00-0026	EA		3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,637.06	27.32
23 22 16 00-0027	EA		1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,887.78	33.66
23 22 16 00-0028	EA		1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,147.20	42.54
23 22 16 00-0029	EA		1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,263.60	48.87
23 22 16 00-0030	EA		2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,680.82	53.17
23 22 16 00-0031	EA		2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,811.34	97.39
23 22 16 00-0032	EA		3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,670.41	106.20
23 22 16 00-0033	EA		4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,043.73	248.59
23 22 16 00-0034	EA		6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,408.84	291.77
23 22 16 00-0035			Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0001)</small>		
23 22 16 00-0036	EA		1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,323.98	20.28
23 22 16 00-0037	EA		3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,361.27	27.32
23 22 16 00-0038	EA		1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,652.01	33.66
23 22 16 00-0039	EA		1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,809.51	42.54
23 22 16 00-0040	EA		1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,958.68	48.87
23 22 16 00-0041	EA		2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,310.40	53.17
23 22 16 00-0042	EA		2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,175.26	97.39
23 22 16 00-0043	EA		3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,903.04	106.20
23 22 16 00-0044	EA		4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,276.35	248.59
23 22 16 00-0045	EA		6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	8,641.47	291.77
23 22 16 00-0046			High Temperature Safety Relief Valve <small>(23 22 16)</small>		
Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.					
23 22 16 00-0047			Cast Iron Body Safety Valve, Steam Or Water <small>(23 22 16 00-0046)</small>		
Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.					
23 22 16 00-0048			Threaded <small>(23 22 16 00-0047)</small>		
23 22 16 00-0049	EA		3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	494.49	21.13
23 22 16 00-0050	EA		1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	519.99	25.00
23 22 16 00-0051	EA		1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	577.12	31.69
23 22 16 00-0052	EA		1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	708.50	35.21
23 22 16 00-0053	EA		2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	905.55	43.31
23 22 16 00-0054	EA		2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	1,389.76	49.30
23 22 16 00-0055	EA		3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	1,508.57	56.69
23 22 16 00-0056			Flanged <small>(23 22 16 00-0047)</small>		
23 22 16 00-0057	EA		1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	3,395.24	147.88
23 22 16 00-0058	EA		2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	3,965.81	222.30
23 22 16 00-0059	EA		2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	4,370.67	204.67
23 22 16 00-0060	EA		2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,320.95	295.61
23 22 16 00-0061	EA		3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,654.20	220.45
23 22 16 00-0062	EA		3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	6,652.72	295.61
23 22 16 00-0063	EA		4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	11,113.48	419.50
23 22 16 00-0064	EA		6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	22,010.12	468.50
23 22 16 00-0065			Bronze Body Safety Valve, Threaded, Steam <small>(23 22 16 00-0046)</small>		
Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0066 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	535.03	19.37
23 22 16 00-0067 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	549.11	21.13
23 22 16 00-0068 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	641.49	23.24
23 22 16 00-0069 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	707.84	25.00
23 22 16 00-0070 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	818.35	28.17
23 22 16 00-0071 EA 1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	825.24	31.69
23 22 16 00-0072 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	926.38	33.45
23 22 16 00-0073 EA 1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,008.53	35.21
23 22 16 00-0074 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,392.61	39.43
23 22 16 00-0075 EA 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,522.13	43.31
23 22 16 00-0076 EA 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,814.25	49.30
23 22 16 00-0077 Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)		
Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	260.08	19.37
23 22 16 00-0079 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	295.62	21.13
23 22 16 00-0080 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Water	404.64	23.24
23 22 16 00-0081 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	445.07	25.00
23 22 16 00-0082 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	637.34	28.17
23 22 16 00-0083 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	856.10	33.45
23 22 16 00-0084 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,241.24	39.43
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	285.30	42.27
For Work In Restricted Working Space, Add	25.36	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	288.82	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap	417.12	46.92
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	666.73	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	981.17	78.90
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,263.77	117.41
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	301.14	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	389.36	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	485.55	64.04
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	651.12	78.27
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,173.37	117.36
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	375.33	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	407.32	46.92
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	534.51	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	758.84	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,282.73	117.40
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	478.16	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	531.37	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	803.84	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	832.30	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,591.22	117.41
For Work In Restricted Working Space, Add	70.45	
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	484.69	44.03
For Work In Restricted Working Space, Add	26.42	
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	531.37	46.96
For Work In Restricted Working Space, Add	28.18	
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap	803.84	64.03
For Work In Restricted Working Space, Add	38.42	
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap	832.30	78.20
For Work In Restricted Working Space, Add	46.96	
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap	1,591.22	117.40
For Work In Restricted Working Space, Add	70.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0114 Thermostatic Steam Traps <small>(23 22 16 00-0085)</small>		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	160.26	42.27
<i>For Work In Restricted Working Space, Add</i>	25.36	
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	249.63	44.03
<i>For Work In Restricted Working Space, Add</i>	26.42	
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	303.23	46.92
<i>For Work In Restricted Working Space, Add</i>	28.18	
23 22 16 00-0118 Thermodynamic Steam Traps <small>(23 22 16 00-0085)</small>		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	317.68	38.04
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	440.37	42.27
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	540.18	44.03
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	715.81	46.92
23 22 16 00-0123 Steam Moisture Separator <small>(23 22 16 00-0085)</small>		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	663.75	70.45
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	716.90	95.10
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	858.42	107.08
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2).....	1,327.50	122.57
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,650.34	187.81
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,448.09	204.29
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,826.22	239.52
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	3,876.72	401.53
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	7,420.50	507.20
23 22 16 00-0133 Steam/Condensate Meter <small>(23 22 16)</small>		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	5,468.14	116.71
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0135 EA 2" Steam/Condensate Meter.....	6,171.17	137.14
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter.....	6,553.17	170.19
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0137 EA 3" Steam/Condensate Meter.....	6,962.39	223.69
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0138 EA 4" Steam/Condensate Meter.....	7,877.94	347.53
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0139 EA 6" Steam/Condensate Meter.....	13,445.06	439.60
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0140 EA 8" Steam/Condensate Meter.....	13,956.05	555.01
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0141 EA 10" Steam/Condensate Meter.....	14,630.17	680.80
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 22 Steam and Condensate Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0142 EA 12" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	15,369.08 1,220.00 567.00 905.00 79.82 64.52	826.68
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	16,389.57 1,220.00 567.00 905.00 79.82 64.52	972.56
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	16,988.55 1,220.00 567.00 905.00 79.82 64.52	1,069.82

23 22 23 Steam Condensate Pumps (23 22)

23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)

23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)

Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,503.90	660.34
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,206.28	678.51
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,354.12	723.91
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,689.68	731.70
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,121.51	796.56
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,035.95	796.56
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,138.53	851.05
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,478.76	889.97
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,556.92	928.90

23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,870.69	705.75
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,728.19	723.91
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,872.53	771.91
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,474.90	834.18
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,138.53	852.35
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,308.62	882.18
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,501.62	928.90
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,536.73	988.57

23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,201.25	809.53
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,035.92	874.40
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,721.02	864.03
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,278.21	882.18
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,412.62	919.81
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,556.92	928.90
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,665.98	988.57

23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,990.41	877.00
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,355.63	895.16
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,996.84	901.65
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,520.15	980.78
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	10,254.42	1,057.33
23 22 23 13-0035 Duplex Condensate Pumps And Motors <small>(23 22 23 13)</small>		
<small>Note: Cast iron receiver, float switch, alternator assembly.</small>		
23 22 23 13-0036 20 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,117.84	886.08
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,365.96	973.00
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,765.37	980.78
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,323.25	1,069.00
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,389.75	1,069.00
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,535.35	1,152.04
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	8,914.83	1,202.64
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	9,137.93	1,262.31
23 22 23 13-0045 30 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,322.54	954.84
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,576.07	1,043.05
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,169.77	1,017.12
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	7,535.35	1,152.04
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	7,750.77	1,194.84
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	8,833.81	1,262.31
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	9,274.16	1,353.12
23 22 23 13-0053 40 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,782.50	1,126.09
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,382.13	1,176.69
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,769.02	1,194.84
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,993.64	1,254.52
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	9,139.45	1,262.31
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	9,310.65	1,353.12
23 22 23 13-0060 50 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,034.92	1,126.09
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,515.52	1,237.66
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	8,166.35	1,344.04
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	14,136.10	1,455.61

23 23 Refrigerant Piping (23 20)

23 23 13 Refrigerant Piping Valves (23 23)

23 23 13 00-0001 Ball Valves (23 23 13)

23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated	52.65	14.09
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated	54.92	14.09
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated	68.77	14.09
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated	92.20	15.50
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated	125.48	17.61
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated	200.46	21.69
23 23 13 00-0009 Shut-Off Valves (23 23 13)		
23 23 13 00-0010 Packless (23 23 13 00-0009)		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless	61.27	14.66
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless	75.13	16.07
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless	147.20	21.98
23 23 13 00-0014 Packed (23 23 13 00-0009)		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed	257.05	31.98
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed	341.33	39.16
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed	413.49	44.10
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed	582.86	50.30
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed	1,003.34	140.89
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed	1,311.08	176.11
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed	1,854.51	234.86
23 23 13 00-0022 Check Valves (23 23 13)		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration	80.08	14.09
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration	226.82	15.50
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration	264.05	17.61
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration	353.74	18.74
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration	460.88	21.70
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration	673.07	25.64
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration	943.31	37.61
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration	1,238.14	49.31
23 23 13 00-0031 Solenoid Valves (23 23 13)		
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration	218.37	14.09
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration	223.40	14.09
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration	277.23	15.50
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration	277.23	15.50
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration	385.77	17.61
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration	614.12	18.74
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration	1,117.34	21.70
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration	1,137.04	25.64
23 23 16 Refrigerant Piping Specialties (23 23)		
23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)		
Note: Based on outside diameter. Nitrogenized. Lengths up to 100' See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing	5.73	3.35
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing	5.98	3.44
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing	6.24	3.54
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing	6.63	3.59
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing	6.81	3.65
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing	7.58	3.83
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing	8.25	3.87
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing	8.96	4.01
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing	11.42	4.71
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	14.36	5.39
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	20.34	6.38
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	24.37	7.14
23 23 16 00-0014 Type L Drawn, ACR Copper Tubing (23 23 16)		
Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	7.52	3.94
For Medical Applications "Oxygen Clean", Add	0.68	
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	8.31	3.94
For Medical Applications "Oxygen Clean", Add	0.72	
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	8.81	3.94
For Medical Applications "Oxygen Clean", Add	0.74	
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	12.74	5.92
For Medical Applications "Oxygen Clean", Add	1.08	
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	13.90	6.34
For Medical Applications "Oxygen Clean", Add	1.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	15.88 1.27	6.34
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	19.63 1.54	7.32
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	23.62 1.82	8.45
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	33.01 2.44	10.56
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	49.56 3.68	15.92
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	63.85 4.67	19.73
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	79.95 5.76	23.38
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	98.59 7.04	28.18
23 23 16 00-0028 Refrigeration Fittings (23 23 16)		
23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)		
23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0031 EA 3/8" Brass Flare Union.....	29.75	15.22
23 23 16 00-0032 EA 1/2" Brass Flare Union.....	29.75	15.22
23 23 16 00-0033 EA 5/8" Brass Flare Union.....	31.56	15.22
23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union	30.85	15.22
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union	30.85	15.22
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union	36.90	15.22
23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)		
23 23 16 00-0039 EA 3/8" Brass Flare Tee.....	48.37	25.35
23 23 16 00-0040 EA 1/2" Brass Flare Tee.....	51.08	25.35
23 23 16 00-0041 EA 5/8" Brass Flare Tee.....	65.78	25.35
23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union	24.78	15.22
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union	26.59	15.22
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union	29.17	15.22
23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union	27.11	15.22
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union	29.56	15.22
23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut	25.88	15.22
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut	26.59	15.22
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut	34.45	15.22
23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut.....	24.86	15.22
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	26.49	15.22
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	26.83	15.22
23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028)		
Note: Soldered.		
23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058)		
Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	24.36	15.22
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	24.07	15.22
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	24.50	15.22
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	25.39	15.92
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	35.44	20.99
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	35.24	21.56
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling	45.98	26.77
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling	65.29	36.63
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling	78.18	42.98
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling	100.94	52.13
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling	170.16	79.18
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling	226.29	104.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling.....	344.96	123.70
23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows <small>(23 23 16 00-0058)</small>		
Note: C x C		
23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.53	15.22
23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	28.24	15.22
23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	30.43	15.92
23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	43.37	20.99
23 23 16 00-0079 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	44.02	21.56
23 23 16 00-0080 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	55.79	26.77
23 23 16 00-0081 EA 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	70.94	36.63
23 23 16 00-0082 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	89.46	42.98
23 23 16 00-0083 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	123.58	52.13
23 23 16 00-0084 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	209.72	79.18
23 23 16 00-0085 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	270.56	104.12
23 23 16 00-0086 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	478.29	123.70
23 23 16 00-0087 ACR Wrought Copper Long Radius 90 Degree Elbows <small>(23 23 16 00-0058)</small>		
Note: C x C		
23 23 16 00-0088 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow.....	33.10	15.22
23 23 16 00-0089 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	30.53	15.22
23 23 16 00-0090 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow.....	32.57	15.22
23 23 16 00-0091 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	32.77	15.92
23 23 16 00-0092 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow.....	40.51	20.99
23 23 16 00-0093 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	43.72	21.56
23 23 16 00-0094 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	58.48	26.77
23 23 16 00-0095 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	84.79	36.63
23 23 16 00-0096 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	104.56	42.98
23 23 16 00-0097 EA 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	183.52	52.13
23 23 16 00-0098 EA 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	285.59	79.18
23 23 16 00-0099 EA 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	377.17	104.12
23 23 16 00-0100 EA 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow.....	777.51	123.70
23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow <small>(23 23 16 00-0058)</small>		
Note: C x C		
23 23 16 00-0102 EA 1/4" ACR Wrought Copper 45 Degree Elbow.....	36.62	15.22
23 23 16 00-0103 EA 3/8" ACR Wrought Copper 45 Degree Elbow.....	33.10	15.22
23 23 16 00-0104 EA 1/2" ACR Wrought Copper 45 Degree Elbow.....	31.59	15.22
23 23 16 00-0105 EA 5/8" ACR Wrought Copper 45 Degree Elbow.....	27.50	15.92
23 23 16 00-0106 EA 3/4" ACR Wrought Copper 45 Degree Elbow.....	47.12	20.99
23 23 16 00-0107 EA 7/8" ACR Wrought Copper 45 Degree Elbow.....	38.52	21.56
23 23 16 00-0108 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow.....	55.75	26.77
23 23 16 00-0109 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow.....	75.93	36.63
23 23 16 00-0110 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow.....	89.77	42.98
23 23 16 00-0111 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow.....	120.29	52.13
23 23 16 00-0112 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow.....	208.62	79.18
23 23 16 00-0113 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow.....	281.67	104.12
23 23 16 00-0114 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow.....	452.88	123.70
23 23 16 00-0115 ACR Wrought Copper Tee <small>(23 23 16 00-0058)</small>		
Note: C x C x C		
23 23 16 00-0116 EA 1/4" ACR Wrought Copper Tee.....	49.07	25.35
23 23 16 00-0117 EA 3/8" ACR Wrought Copper Tee.....	49.69	25.35
23 23 16 00-0118 EA 1/2" ACR Wrought Copper Tee.....	47.39	25.35
23 23 16 00-0119 EA 5/8" ACR Wrought Copper Tee.....	51.15	31.98
23 23 16 00-0120 EA 3/4" ACR Wrought Copper Tee.....	69.20	31.98
23 23 16 00-0121 EA 7/8" ACR Wrought Copper Tee.....	56.58	32.40
23 23 16 00-0122 EA 1-1/8" ACR Wrought Copper Tee.....	89.22	42.98
23 23 16 00-0123 EA 1-3/8" ACR Wrought Copper Tee.....	111.52	52.13
23 23 16 00-0124 EA 1-5/8" ACR Wrought Copper Tee.....	144.29	61.85
23 23 16 00-0125 EA 2-1/8" ACR Wrought Copper Tee.....	204.04	82.42
23 23 16 00-0126 EA 2-5/8" ACR Wrought Copper Tee.....	432.00	179.91
23 23 16 00-0127 EA 3-1/8" ACR Wrought Copper Tee.....	529.51	197.81
23 23 16 00-0128 EA 4-1/8" ACR Wrought Copper Tee.....	893.25	219.79
23 23 16 00-0129 ACR Wrought Copper Male Adapter <small>(23 23 16 00-0058)</small>		
Note: C x M		
23 23 16 00-0130 EA 1/4" ACR Wrought Copper Male Adapter.....	40.13	15.22
23 23 16 00-0131 EA 3/8" ACR Wrought Copper Male Adapter.....	45.76	15.22
23 23 16 00-0132 EA 1/2" ACR Wrought Copper Male Adapter.....	36.40	15.22
23 23 16 00-0133 ACR Wrought Copper Female Adapter <small>(23 23 16 00-0058)</small>		
Note: C x F		
23 23 16 00-0134 EA 1/4" ACR Wrought Copper Female Adapter.....	37.91	15.22



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 23 16 00-0135	EA		3/8" ACR Wrought Copper Female Adapter	34.68	15.22
	23 23 16 00-0136	EA		1/2" ACR Wrought Copper Female Adapter	35.90	15.22
23 23 16 00-0137				ACR Wrought Copper Cap (23 23 16 00-0058)		
				Note: C		
	23 23 16 00-0138	EA		1/4" ACR Wrought Copper Cap	17.87	10.14
	23 23 16 00-0139	EA		3/8" ACR Wrought Copper Cap	16.84	10.14
	23 23 16 00-0140	EA		1/2" ACR Wrought Copper Cap	17.84	10.14
23 23 16 00-0141				ACR Wrought Copper P-Trap (23 23 16 00-0058)		
	23 23 16 00-0142	EA		5/8" ACR Wrought Copper P-Trap	106.64	12.97
	23 23 16 00-0143	EA		3/4" ACR Wrought Copper P-Trap	143.73	14.27
	23 23 16 00-0144	EA		7/8" ACR Wrought Copper P-Trap	126.96	14.27
	23 23 16 00-0145	EA		1-1/8" ACR Wrought Copper P-Trap	171.14	15.57
	23 23 16 00-0146	EA		1-3/8" ACR Wrought Copper P-Trap	296.23	15.57
	23 23 16 00-0147	EA		1-5/8" ACR Wrought Copper P-Trap	414.84	16.87
	23 23 16 00-0148	EA		2-1/8" ACR Wrought Copper P-Trap	739.48	18.17
23 23 16 00-0149				Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)		
	23 23 16 00-0150	EA		1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	61.73	19.46
	23 23 16 00-0151	EA		3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	74.56	23.35
	23 23 16 00-0152	EA		1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	89.56	28.54
	23 23 16 00-0153	EA		5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	99.36	32.43
	23 23 16 00-0154	EA		7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	132.03	41.52
	23 23 16 00-0155	EA		1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	154.57	50.60
	23 23 16 00-0156	EA		1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	227.40	59.68
	23 23 16 00-0157	EA		1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	285.59	81.73
	23 23 16 00-0158	EA		2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	351.73	101.19
23 23 16 00-0159				Filter Driers, Solder Connections (23 23 16)		
23 23 16 00-0160				Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0159)		
	23 23 16 00-0161	EA		5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	476.81	11.68
	23 23 16 00-0162	EA		7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	493.45	14.27
	23 23 16 00-0163	EA		1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	633.27	14.27
	23 23 16 00-0164	EA		1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	644.93	15.57
	23 23 16 00-0165	EA		1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	729.75	16.87
	23 23 16 00-0166	EA		2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	842.85	18.17
	23 23 16 00-0167	EA		2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	989.18	19.46
	23 23 16 00-0168	EA		3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,235.17	19.46
23 23 16 00-0169				Sealed In-Line Filter Driers, Solder Connections (23 23 16 00-0159)		
	23 23 16 00-0170	EA		1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections	97.12	11.68
	23 23 16 00-0171	EA		3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections	124.15	11.68
	23 23 16 00-0172	EA		1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections	157.57	12.97
	23 23 16 00-0173	EA		1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	180.47	12.97
	23 23 16 00-0174	EA		5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections	199.65	12.97
	23 23 16 00-0175	EA		5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections	222.42	12.97
	23 23 16 00-0176	EA		7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	251.25	14.27
	23 23 16 00-0177	EA		7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	341.50	14.27
	23 23 16 00-0178	EA		1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	376.37	14.27
23 23 16 00-0179				Bi-Flow Filter Driers, Solder Connections (23 23 16 00-0159)		
	23 23 16 00-0180	EA		1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	125.38	11.68
	23 23 16 00-0181	EA		3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	144.26	11.68
	23 23 16 00-0182	EA		1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	174.03	12.97
	23 23 16 00-0183	EA		3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	152.24	11.68
	23 23 16 00-0184	EA		1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	190.48	12.97
	23 23 16 00-0185	EA		5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	225.25	12.97
23 23 16 00-0186				Refrigerant Compressor Discharge Mufflers (23 23 16)		
	23 23 16 00-0187	EA		3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	118.62	11.68
	23 23 16 00-0188	EA		1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	131.18	11.68
	23 23 16 00-0189	EA		5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	157.36	11.68
	23 23 16 00-0190	EA		7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	212.27	14.27
	23 23 16 00-0191	EA		1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	278.50	14.27
	23 23 16 00-0192	EA		1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	331.73	15.57
	23 23 16 00-0193	EA		1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	418.92	16.87
	23 23 16 00-0194	EA		2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	717.86	18.17
	23 23 16 00-0195	EA		2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	814.10	19.46
	23 23 16 00-0196	EA		3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,009.61	19.46

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 23 16 00-0197	Expansion Valves And Vibration Absorbers <small>(23 23 16)</small>			
23 23 16 00-0198	Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>			
	Note: Outside diameter pipe sizes. Sporlan TP-S.			
23 23 16 00-0199	EA	3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	229.56	11.68
23 23 16 00-0200	EA	1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	319.00	12.97
23 23 16 00-0201	EA	5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	523.64	12.97
23 23 16 00-0202	EA	7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	621.75	14.27
23 23 16 00-0203	EA	7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	686.62	14.27
23 23 16 00-0204	Electric Expansion Valves <small>(23 23 16 00-0197)</small>			
	Note: Sporlan SEI or SEH.			
23 23 16 00-0205	EA	1/2 To 11 Ton Electric Expansion Valve	594.35	16.21
	Note: Sporlan SEI.			
23 23 16 00-0206	EA	25 Ton Electric Expansion Valve	685.51	16.87
	Note: Sporlan SEI.			
23 23 16 00-0207	EA	50 Ton Electric Expansion Valve	777.15	17.51
	Note: Sporlan SEI.			
23 23 16 00-0208	EA	100 Ton Electric Expansion Valve	918.40	17.51
	Note: Sporlan SEH.			
23 23 16 00-0209	EA	175 Ton Electric Expansion Valve	1,032.55	18.17
	Note: Sporlan SEH.			
23 23 16 00-0210	Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>			
23 23 16 00-0211	EA	1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	61.27	16.87
23 23 16 00-0212	EA	3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	64.23	19.46
23 23 16 00-0213	EA	1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	82.39	24.65
23 23 16 00-0214	EA	5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	90.47	29.84
23 23 16 00-0215	EA	3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	107.40	36.32
23 23 16 00-0216	EA	7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	123.55	41.52
23 23 16 00-0217	EA	1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	176.37	15.57
23 23 16 00-0218	EA	1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	241.47	16.87
23 23 16 00-0219	EA	1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	296.39	16.87
23 23 16 00-0220	EA	2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	393.86	18.17
23 23 16 00-0221	EA	2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	653.33	19.46
23 23 16 00-0222	EA	3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	851.17	19.46
23 23 16 00-0223	Accumulator, Refrigerant Suction Line <small>(23 23 16)</small>			
23 23 16 00-0224	EA	3/4" Accumulator, Refrigeration Suction Line.....	199.82	59.03
23 23 16 00-0225	EA	7/8" Accumulator, Refrigeration Suction Line.....	271.53	81.08
23 23 16 00-0226	EA	1-1/8" Accumulator, Refrigeration Suction Line	330.68	108.07
23 23 16 00-0227	EA	1 3/8" Accumulator, Refrigeration Suction Line.....	452.32	129.73
23 23 16 00-0228	EA	1-5/8" Accumulator, Refrigeration Suction Line	613.38	162.17
23 23 16 00-0229	EA	2-1/8" Accumulator, Refrigeration Suction Line	914.45	216.27
23 23 16 00-0230	Special Chemicals/Component <small>(23 23 16)</small>			
23 23 16 00-0231	GAL	Special Chemical, Inhibited Propylene Glycol, 100%.....	34.21	
23 23 16 00-0232	GAL	Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	10.06	
23 23 16 00-0233	GAL	Special Chemical, Inhibited Ethylene Glycol, 100%.....	23.60	
23 23 16 00-0234	EA	Internal Coil/Refrigerant Piping Flush	323.64	
	Note: Up to 10 ton AC system.			
23 23 23	Refrigerants <small>(23 23)</small>			
23 23 23 00-0001	Refrigerant <small>(23 23 23)</small>			
23 23 23 00-0002	LB	R-113 Refrigerant	24.82	
23 23 23 00-0003	LB	R-123 Refrigerant	18.21	
23 23 23 00-0004	LB	R-134A Refrigerant.....	6.49	
23 23 23 00-0005	LB	R-404A Refrigerant.....	11.61	
23 23 23 00-0006	LB	R-407C Refrigerant.....	11.49	
23 23 23 00-0007	LB	R-408A Refrigerant.....	26.19	
23 23 23 00-0008	LB	R-410A Refrigerant.....	11.26	
23 23 23 00-0009	LB	R-500 Refrigerant	22.25	
23 23 23 00-0010	LB	R-507 Refrigerant	7.16	

23 25 HVAC Water Treatment (23 20)**23 25 13 Water Treatment for Closed-Loop Hydronic Systems** (23 25)

23 25 13 00-0001	Polyethylene Chemical Storage Tanks <small>(23 25 13)</small>			
23 25 13 00-0002	EA	15 Gallon Chemical Storage Tank, Polyethylene.....	374.10	108.34
23 25 13 00-0003	Gas Chlorinator <small>(23 25 13)</small>			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,336.04	492.95
<i>For Booster Pump, Add</i>	<i>541.91</i>	
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,526.57	563.37
<i>For Booster Pump, Add</i>	<i>619.48</i>	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	2,053.51	426.75
<i>For Booster Pump, Add</i>	<i>748.43</i>	
23 25 13 00-0007 Bypass Shot Feeders <small>(23 25 13)</small> Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG.....	1,258.44	367.14
23 25 13 00-0010 Floor Mount, 175 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,857.92	552.66
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,451.67	731.70
23 25 13 00-0013 Floor Mount, 150 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	1,857.92	552.66
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	2,451.67	731.70
23 25 13 00-0016 Floor Mount, 300 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	2,242.63	552.66
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	2,851.14	731.70

23 30 HVAC Air Distribution (23)

23 31 HVAC Ducts and Casings (23 30)

Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 23 05 29 00-0001 for threaded rod.

23 31 13 Metal Ducts (23 31)

23 31 13 13 Rectangular Metal Ducts (23 31 13)

23 31 13 13-0001 Steel Sheet Metal Duct (23 31 13 13)
Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer.

23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork (23 31 13 13-0001)

Note: SMACNA weight for galvanized steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF

23 31 13 13-0003 LB 2" WG And Less (Class C), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	12.77	3.45
<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	<i>0.43</i>	
<i>For Up To 200, Add</i>	<i>4.48</i>	
<i>For >200 To 500, Add</i>	<i>2.84</i>	
<i>For >500 To 1,000, Add</i>	<i>1.94</i>	
<i>For >1,000 To 2,000, Add</i>	<i>1.09</i>	
<i>For >2,000 To 5,000, Add</i>	<i>0.49</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.18</i>	
<i>For Elevated Installation >10' To 15', Add</i>	<i>0.64</i>	
<i>For Elevated Installation >15' To 20', Add</i>	<i>1.27</i>	
<i>For Elevated Installation >20' To 25', Add</i>	<i>1.59</i>	
<i>For Elevated Installation >25' To 30', Add</i>	<i>2.23</i>	
<i>For Elevated Installation >30' To 35', Add</i>	<i>2.55</i>	
<i>For Elevated Installation >35' To 40', Add</i>	<i>3.18</i>	
<i>For Elevated Installation >40', Add</i>	<i>3.50</i>	
23 31 13 13-0004 LB 3" WG (Class B), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	14.36	3.45
<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	<i>0.43</i>	
<i>For Up To 200, Add</i>	<i>4.96</i>	
<i>For >200 To 500, Add</i>	<i>3.12</i>	
<i>For >500 To 1,000, Add</i>	<i>2.16</i>	
<i>For >1,000 To 2,000, Add</i>	<i>1.21</i>	
<i>For >2,000 To 5,000, Add</i>	<i>0.55</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>3.66</i>	
<i>For Elevated Installation >10' To 15', Add</i>	<i>0.73</i>	
<i>For Elevated Installation >15' To 20', Add</i>	<i>1.46</i>	
<i>For Elevated Installation >20' To 25', Add</i>	<i>1.83</i>	
<i>For Elevated Installation >25' To 30', Add</i>	<i>2.56</i>	
<i>For Elevated Installation >30' To 35', Add</i>	<i>2.93</i>	
<i>For Elevated Installation >35' To 40', Add</i>	<i>3.66</i>	
<i>For Elevated Installation >40', Add</i>	<i>4.03</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0005	LB	4" Or 6" WG (Class A), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	17.01	3.45
			<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	0.43	
			<i>For Up To 200, Add</i>	5.75	
			<i>For >200 To 500, Add</i>	3.60	
			<i>For >500 To 1,000, Add</i>	2.53	
			<i>For >1,000 To 2,000, Add</i>	1.43	
			<i>For >2,000 To 5,000, Add</i>	0.66	
			<i>For Work In Restricted Working Space, Add</i>	4.46	
			<i>For Elevated Installation >10' To 15', Add</i>	0.89	
			<i>For Elevated Installation >15' To 20', Add</i>	1.78	
			<i>For Elevated Installation >20' To 25', Add</i>	2.23	
			<i>For Elevated Installation >25' To 30', Add</i>	3.12	
			<i>For Elevated Installation >30' To 35', Add</i>	3.56	
			<i>For Elevated Installation >35' To 40', Add</i>	4.46	
			<i>For Elevated Installation >40', Add</i>	4.90	
23 31 13	13-0006		Alloy 3003-H14, Aluminum Sheet Metal Ductwork <small>(23 31 13 13-0001)</small>		
			Note: SMACNA weight for aluminum ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.224 LB/SF; 24 gauge - 0.282 LB/SF; 22 gauge - 0.352 LB/SF; 20 gauge - 0.451 LB/SF; 18 gauge - 0.563 LB/SF; 16 gauge - 0.718 LB/SF; 14 gauge - 0.901 LB/SF; 12 gauge - 0.141 LB/SF		
23 31 13	13-0007	LB	2" WG And Less (Class C), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	24.50	3.45
			<i>For Work In Restricted Working Space, Add</i>	6.29	
			<i>For Up To 200, Add</i>	8.41	
			<i>For >200 To 500, Add</i>	5.29	
			<i>For >500 To 1,000, Add</i>	3.68	
			<i>For >1,000 To 2,000, Add</i>	2.07	
			<i>For >2,000 To 5,000, Add</i>	0.94	
			<i>For Elevated Installation >10' To 15', Add</i>	1.26	
			<i>For Elevated Installation >15' To 20', Add</i>	2.52	
			<i>For Elevated Installation >20' To 25', Add</i>	3.15	
			<i>For Elevated Installation >25' To 30', Add</i>	4.40	
			<i>For Elevated Installation >30' To 35', Add</i>	5.03	
			<i>For Elevated Installation >35' To 40', Add</i>	6.29	
			<i>For Elevated Installation >40', Add</i>	6.92	
23 31 13	13-0008	LB	3" WG (Class B), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	27.65	3.45
			<i>For Work In Restricted Working Space, Add</i>	7.24	
			<i>For Up To 200, Add</i>	9.35	
			<i>For >200 To 500, Add</i>	5.86	
			<i>For >500 To 1,000, Add</i>	4.12	
			<i>For >1,000 To 2,000, Add</i>	2.32	
			<i>For >2,000 To 5,000, Add</i>	1.07	
			<i>For Elevated Installation >10' To 15', Add</i>	1.45	
			<i>For Elevated Installation >15' To 20', Add</i>	2.89	
			<i>For Elevated Installation >20' To 25', Add</i>	3.62	
			<i>For Elevated Installation >25' To 30', Add</i>	5.07	
			<i>For Elevated Installation >30' To 35', Add</i>	5.79	
			<i>For Elevated Installation >35' To 40', Add</i>	7.24	
			<i>For Elevated Installation >40', Add</i>	7.96	
23 31 13	13-0009	LB	4" Or 6" WG (Class A), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	32.89	3.45
			<i>For Work In Restricted Working Space, Add</i>	8.81	
			<i>For Up To 200, Add</i>	10.93	
			<i>For >200 To 500, Add</i>	6.80	
			<i>For >500 To 1,000, Add</i>	4.85	
			<i>For >1,000 To 2,000, Add</i>	2.74	
			<i>For >2,000 To 5,000, Add</i>	1.28	
			<i>For Elevated Installation >10' To 15', Add</i>	1.76	
			<i>For Elevated Installation >15' To 20', Add</i>	3.52	
			<i>For Elevated Installation >20' To 25', Add</i>	4.40	
			<i>For Elevated Installation >25' To 30', Add</i>	6.17	
			<i>For Elevated Installation >30' To 35', Add</i>	7.05	
			<i>For Elevated Installation >35' To 40', Add</i>	8.81	
			<i>For Elevated Installation >40', Add</i>	9.69	
23 31 13	13-0010		Type 304, Stainless Steel Sheet Metal Ductwork <small>(23 31 13 13-0001)</small>		
			Note: SMACNA weight for stainless steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.748 LB/SF; 24 gauge - 0.987 LB/SF; 22 gauge - 1.231 LB/SF; 20 gauge - 1.491 LB/SF; 18 gauge - 2.016 LB/SF; 16 gauge - 2.499 LB/SF; 14 gauge - 3.154 LB/SF; 12 gauge - 4.427 LB/SF		
23 31 13	13-0011	LB	2" WG And Less (Class C), Type 304, Stainless Steel Sheet Metal Ductwork	17.42	4.59
			<i>For Work In Restricted Working Space, Add</i>	3.87	
			<i>For Welded Seams, Add</i>	6.67	
			<i>For Up To 200, Add</i>	6.59	
			<i>For >200 To 500, Add</i>	4.27	
			<i>For >500 To 1,000, Add</i>	2.76	
			<i>For >1,000 To 2,000, Add</i>	1.53	
			<i>For >2,000 To 5,000, Add</i>	0.65	
			<i>For Elevated Installation >10' To 15', Add</i>	0.77	
			<i>For Elevated Installation >15' To 20', Add</i>	1.55	
			<i>For Elevated Installation >20' To 25', Add</i>	1.93	
			<i>For Elevated Installation >25' To 30', Add</i>	2.71	
			<i>For Elevated Installation >30' To 35', Add</i>	3.09	
			<i>For Elevated Installation >35' To 40', Add</i>	3.87	
			<i>For Elevated Installation >40', Add</i>	4.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0012 LB 3" WG (Class B), Type 304, Stainless Steel Sheet Metal Ductwork.....	20.08	4.59
<i>For Work In Restricted Working Space, Add</i>	4.67	
<i>For Welded Seams, Add</i>	8.00	
<i>For Up To 200, Add</i>	7.38	
<i>For >200 To 500, Add</i>	4.75	
<i>For >500 To 1,000, Add</i>	3.13	
<i>For >1,000 To 2,000, Add</i>	1.74	
<i>For >2,000 To 5,000, Add</i>	0.76	
<i>For Elevated Installation >10' To 15', Add</i>	0.93	
<i>For Elevated Installation >15' To 20', Add</i>	1.87	
<i>For Elevated Installation >20' To 25', Add</i>	2.33	
<i>For Elevated Installation >25' To 30', Add</i>	3.27	
<i>For Elevated Installation >30' To 35', Add</i>	3.73	
<i>For Elevated Installation >35' To 40', Add</i>	4.67	
<i>For Elevated Installation >40', Add</i>	5.13	
23 31 13 13-0013 LB 4" Or 6" WG (Class A), Type 304, Stainless Steel Sheet Metal Ductwork.....	22.56	4.59
<i>For Work In Restricted Working Space, Add</i>	5.41	
<i>For Welded Seams, Add</i>	9.24	
<i>For Up To 200, Add</i>	8.13	
<i>For >200 To 500, Add</i>	5.19	
<i>For >500 To 1,000, Add</i>	3.48	
<i>For >1,000 To 2,000, Add</i>	1.94	
<i>For >2,000 To 5,000, Add</i>	0.86	
<i>For Elevated Installation >10' To 15', Add</i>	1.08	
<i>For Elevated Installation >15' To 20', Add</i>	2.16	
<i>For Elevated Installation >20' To 25', Add</i>	2.70	
<i>For Elevated Installation >25' To 30', Add</i>	3.79	
<i>For Elevated Installation >30' To 35', Add</i>	4.33	
<i>For Elevated Installation >35' To 40', Add</i>	5.41	
<i>For Elevated Installation >40', Add</i>	5.95	
23 31 13 13-0014 Galvanized Steel Sheet Metal Ductwork By LF <small>(23 31 13 13-0001)</small>		
<p>Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.</p>		
23 31 13 13-0015 30 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0016 LF 4" x 4", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	13.17	7.08
<i>For 3" WG (Class B), Add</i>	1.77	
<i>For 4" Or 6" WG (Class A), Add</i>	3.78	
<i>For 10" WG (Class A), Add</i>	5.44	
<i>For Work In Restricted Working Space, Add</i>	3.55	
23 31 13 13-0017 LF 4" x 6", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	16.45	8.86
<i>For 3" WG (Class B), Add</i>	2.22	
<i>For 4" Or 6" WG (Class A), Add</i>	4.73	
<i>For 10" WG (Class A), Add</i>	6.79	
<i>For Work In Restricted Working Space, Add</i>	4.43	
23 31 13 13-0018 LF 4" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.75	10.63
<i>For 3" WG (Class B), Add</i>	2.66	
<i>For 4" Or 6" WG (Class A), Add</i>	5.67	
<i>For 10" WG (Class A), Add</i>	8.15	
<i>For Work In Restricted Working Space, Add</i>	5.32	
23 31 13 13-0019 LF 4" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.03	12.40
<i>For 3" WG (Class B), Add</i>	3.10	
<i>For 4" Or 6" WG (Class A), Add</i>	6.61	
<i>For 10" WG (Class A), Add</i>	9.51	
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 31 13 13-0020 LF 4" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
<i>For 3" WG (Class B), Add</i>	3.54	
<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
<i>For 10" WG (Class A), Add</i>	10.87	
<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0021 LF 4" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
<i>For 3" WG (Class B), Add</i>	3.99	
<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
<i>For 10" WG (Class A), Add</i>	12.23	
<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0022 LF 4" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
<i>For 3" WG (Class B), Add</i>	4.43	
<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
<i>For 10" WG (Class A), Add</i>	13.59	
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0023 LF 6" x 6", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.75	10.63
<i>For 3" WG (Class B), Add</i>	2.66	
<i>For 4" Or 6" WG (Class A), Add</i>	5.67	
<i>For 10" WG (Class A), Add</i>	8.15	
<i>For Work In Restricted Working Space, Add</i>	5.32	
23 31 13 13-0024 LF 6" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.03	12.40
<i>For 3" WG (Class B), Add</i>	3.10	
<i>For 4" Or 6" WG (Class A), Add</i>	6.61	
<i>For 10" WG (Class A), Add</i>	9.51	
<i>For Work In Restricted Working Space, Add</i>	6.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0025	LF		6" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
			<i>For 3" WG (Class B), Add</i>	3.54	
			<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
			<i>For 10" WG (Class A), Add</i>	10.87	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0026	LF		6" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
			<i>For 3" WG (Class B), Add</i>	3.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
			<i>For 10" WG (Class A), Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0027	LF		6" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0028	LF		6" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
			<i>For 3" WG (Class B), Add</i>	4.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
			<i>For 10" WG (Class A), Add</i>	14.95	
			<i>For Work In Restricted Working Space, Add</i>	9.75	
23 31 13 13-0029	LF		8" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	26.34	14.18
			<i>For 3" WG (Class B), Add</i>	3.54	
			<i>For 4" Or 6" WG (Class A), Add</i>	7.56	
			<i>For 10" WG (Class A), Add</i>	10.87	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
23 31 13 13-0030	LF		8" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.62	15.95
			<i>For 3" WG (Class B), Add</i>	3.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.51	
			<i>For 10" WG (Class A), Add</i>	12.23	
			<i>For Work In Restricted Working Space, Add</i>	7.97	
23 31 13 13-0031	LF		8" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0032	LF		8" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
			<i>For 3" WG (Class B), Add</i>	4.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
			<i>For 10" WG (Class A), Add</i>	14.95	
			<i>For Work In Restricted Working Space, Add</i>	9.75	
23 31 13 13-0033	LF		8" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
			<i>For 3" WG (Class B), Add</i>	5.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.34	
			<i>For 10" WG (Class A), Add</i>	16.30	
			<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0034	LF		8" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
			<i>For 3" WG (Class B), Add</i>	5.76	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.28	
			<i>For 10" WG (Class A), Add</i>	17.66	
			<i>For Work In Restricted Working Space, Add</i>	11.52	
23 31 13 13-0035	LF		8" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
			<i>For 3" WG (Class B), Add</i>	6.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.23	
			<i>For 10" WG (Class A), Add</i>	19.02	
			<i>For Work In Restricted Working Space, Add</i>	12.40	
23 31 13 13-0036	LF		8" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
			<i>For 3" WG (Class B), Add</i>	6.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.17	
			<i>For 10" WG (Class A), Add</i>	20.37	
			<i>For Work In Restricted Working Space, Add</i>	13.29	
23 31 13 13-0037	LF		8" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
			<i>For 3" WG (Class B), Add</i>	7.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.12	
			<i>For 10" WG (Class A), Add</i>	21.73	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
23 31 13 13-0038	LF		10" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	32.91	17.72
			<i>For 3" WG (Class B), Add</i>	4.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.45	
			<i>For 10" WG (Class A), Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
23 31 13 13-0039	LF		10" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.21	19.49
			<i>For 3" WG (Class B), Add</i>	4.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.40	
			<i>For 10" WG (Class A), Add</i>	14.95	
			<i>For Work In Restricted Working Space, Add</i>	9.75	
23 31 13 13-0040	LF		10" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
			<i>For 3" WG (Class B), Add</i>	5.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.34	
			<i>For 10" WG (Class A), Add</i>	16.30	
			<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0041	LF		10" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
			<i>For 3" WG (Class B), Add</i>	5.76	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.28	
			<i>For 10" WG (Class A), Add</i>	17.66	
			<i>For Work In Restricted Working Space, Add</i>	11.52	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0042 LF 10" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
For 3" WG (Class B), Add	6.20	
For 4" Or 6" WG (Class A), Add	13.23	
For 10" WG (Class A), Add	19.02	
For Work In Restricted Working Space, Add	12.40	
23 31 13 13-0043 LF 10" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
For 3" WG (Class B), Add	6.64	
For 4" Or 6" WG (Class A), Add	14.17	
For 10" WG (Class A), Add	20.37	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0044 LF 10" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
For 3" WG (Class B), Add	7.09	
For 4" Or 6" WG (Class A), Add	15.12	
For 10" WG (Class A), Add	21.73	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0045 LF 10" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
For 3" WG (Class B), Add	7.53	
For 4" Or 6" WG (Class A), Add	16.06	
For 10" WG (Class A), Add	23.09	
For Work In Restricted Working Space, Add	15.06	
23 31 13 13-0046 LF 12" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.48	21.26
For 3" WG (Class B), Add	5.31	
For 4" Or 6" WG (Class A), Add	11.34	
For 10" WG (Class A), Add	16.30	
For Work In Restricted Working Space, Add	10.63	
23 31 13 13-0047 LF 12" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.78	23.03
For 3" WG (Class B), Add	5.76	
For 4" Or 6" WG (Class A), Add	12.28	
For 10" WG (Class A), Add	17.66	
For Work In Restricted Working Space, Add	11.52	
23 31 13 13-0048 LF 12" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
For 3" WG (Class B), Add	6.20	
For 4" Or 6" WG (Class A), Add	13.23	
For 10" WG (Class A), Add	19.02	
For Work In Restricted Working Space, Add	12.40	
23 31 13 13-0049 LF 12" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
For 3" WG (Class B), Add	6.64	
For 4" Or 6" WG (Class A), Add	14.17	
For 10" WG (Class A), Add	20.37	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0050 LF 12" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
For 3" WG (Class B), Add	7.09	
For 4" Or 6" WG (Class A), Add	15.12	
For 10" WG (Class A), Add	21.73	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0051 LF 12" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
For 3" WG (Class B), Add	7.53	
For 4" Or 6" WG (Class A), Add	16.06	
For 10" WG (Class A), Add	23.09	
For Work In Restricted Working Space, Add	15.06	
23 31 13 13-0052 LF 12" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
For 3" WG (Class B), Add	7.97	
For 4" Or 6" WG (Class A), Add	17.01	
For 10" WG (Class A), Add	24.45	
For Work In Restricted Working Space, Add	15.95	
23 31 13 13-0053 LF 14" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.06	24.81
For 3" WG (Class B), Add	6.20	
For 4" Or 6" WG (Class A), Add	13.23	
For 10" WG (Class A), Add	19.02	
For Work In Restricted Working Space, Add	12.40	
23 31 13 13-0054 LF 14" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.36	26.58
For 3" WG (Class B), Add	6.64	
For 4" Or 6" WG (Class A), Add	14.17	
For 10" WG (Class A), Add	20.37	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0055 LF 14" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
For 3" WG (Class B), Add	7.09	
For 4" Or 6" WG (Class A), Add	15.12	
For 10" WG (Class A), Add	21.73	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0056 LF 14" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
For 3" WG (Class B), Add	7.53	
For 4" Or 6" WG (Class A), Add	16.06	
For 10" WG (Class A), Add	23.09	
For Work In Restricted Working Space, Add	15.06	
23 31 13 13-0057 LF 14" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
For 3" WG (Class B), Add	7.97	
For 4" Or 6" WG (Class A), Add	17.01	
For 10" WG (Class A), Add	24.45	
For Work In Restricted Working Space, Add	15.95	
23 31 13 13-0058 LF 14" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
For 3" WG (Class B), Add	8.42	
For 4" Or 6" WG (Class A), Add	17.96	
For 10" WG (Class A), Add	25.81	
For Work In Restricted Working Space, Add	16.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0059 LF 16" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	52.64	28.35
For 3" WG (Class B), Add	7.09	
For 4" Or 6" WG (Class A), Add	15.12	
For 10" WG (Class A), Add	21.73	
For Work In Restricted Working Space, Add	14.17	
23 31 13 13-0060 LF 16" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.95	30.12
For 3" WG (Class B), Add	7.53	
For 4" Or 6" WG (Class A), Add	16.06	
For 10" WG (Class A), Add	23.09	
For Work In Restricted Working Space, Add	15.06	
23 31 13 13-0061 LF 16" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
For 3" WG (Class B), Add	7.97	
For 4" Or 6" WG (Class A), Add	17.01	
For 10" WG (Class A), Add	24.45	
For Work In Restricted Working Space, Add	15.95	
23 31 13 13-0062 LF 16" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
For 3" WG (Class B), Add	8.42	
For 4" Or 6" WG (Class A), Add	17.96	
For 10" WG (Class A), Add	25.81	
For Work In Restricted Working Space, Add	16.83	
23 31 13 13-0063 LF 16" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
For 3" WG (Class B), Add	8.86	
For 4" Or 6" WG (Class A), Add	18.90	
For 10" WG (Class A), Add	27.17	
For Work In Restricted Working Space, Add	17.72	
23 31 13 13-0064 LF 18" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.24	31.89
For 3" WG (Class B), Add	7.97	
For 4" Or 6" WG (Class A), Add	17.01	
For 10" WG (Class A), Add	24.45	
For Work In Restricted Working Space, Add	15.95	
23 31 13 13-0065 LF 18" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.53	33.67
For 3" WG (Class B), Add	8.42	
For 4" Or 6" WG (Class A), Add	17.96	
For 10" WG (Class A), Add	25.81	
For Work In Restricted Working Space, Add	16.83	
23 31 13 13-0066 LF 18" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
For 3" WG (Class B), Add	8.86	
For 4" Or 6" WG (Class A), Add	18.90	
For 10" WG (Class A), Add	27.17	
For Work In Restricted Working Space, Add	17.72	
23 31 13 13-0067 LF 18" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.09	37.21
For 3" WG (Class B), Add	9.30	
For 4" Or 6" WG (Class A), Add	19.84	
For 10" WG (Class A), Add	28.52	
For Work In Restricted Working Space, Add	18.60	
23 31 13 13-0068 LF 20" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	65.81	35.43
For 3" WG (Class B), Add	8.86	
For 4" Or 6" WG (Class A), Add	18.90	
For 10" WG (Class A), Add	27.17	
For Work In Restricted Working Space, Add	17.72	
23 31 13 13-0069 LF 20" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.09	37.21
For 3" WG (Class B), Add	9.30	
For 4" Or 6" WG (Class A), Add	19.84	
For 10" WG (Class A), Add	28.52	
For Work In Restricted Working Space, Add	18.60	
23 31 13 13-0070 LF 20" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.39	38.98
For 3" WG (Class B), Add	9.74	
For 4" Or 6" WG (Class A), Add	20.79	
For 10" WG (Class A), Add	29.88	
For Work In Restricted Working Space, Add	19.49	
23 31 13 13-0071 LF 22" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.39	38.98
For 3" WG (Class B), Add	9.74	
For 4" Or 6" WG (Class A), Add	20.79	
For 10" WG (Class A), Add	29.88	
For Work In Restricted Working Space, Add	19.49	
23 31 13 13-0072 LF 22" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.68	40.75
For 3" WG (Class B), Add	10.19	
For 4" Or 6" WG (Class A), Add	21.73	
For 10" WG (Class A), Add	31.24	
For Work In Restricted Working Space, Add	20.38	
23 31 13 13-0073 LF 24" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.99	42.53
For 3" WG (Class B), Add	10.63	
For 4" Or 6" WG (Class A), Add	22.68	
For 10" WG (Class A), Add	32.60	
For Work In Restricted Working Space, Add	21.26	
23 31 13 13-0074 28 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0075 LF 4" x 4", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	15.66	8.44
For 3" WG (Class B), Add	2.11	
For 4" Or 6" WG (Class A), Add	4.50	
For 10" WG (Class A), Add	6.47	
For Work In Restricted Working Space, Add	4.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0076 LF 4" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.59	10.54
<i>For 3" WG (Class B), Add</i>	2.64	
<i>For 4" Or 6" WG (Class A), Add</i>	5.63	
<i>For 10" WG (Class A), Add</i>	8.09	
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 31 13 13-0077 LF 4" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.51	12.65
<i>For 3" WG (Class B), Add</i>	3.17	
<i>For 4" Or 6" WG (Class A), Add</i>	6.75	
<i>For 10" WG (Class A), Add</i>	9.71	
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 31 13 13-0078 LF 4" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.42	14.77
<i>For 3" WG (Class B), Add</i>	3.69	
<i>For 4" Or 6" WG (Class A), Add</i>	7.88	
<i>For 10" WG (Class A), Add</i>	11.32	
<i>For Work In Restricted Working Space, Add</i>	7.38	
23 31 13 13-0079 LF 4" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
<i>For 3" WG (Class B), Add</i>	4.22	
<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
<i>For 10" WG (Class A), Add</i>	12.94	
<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13 13-0080 LF 4" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
<i>For 3" WG (Class B), Add</i>	4.75	
<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
<i>For 10" WG (Class A), Add</i>	14.55	
<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13 13-0081 LF 4" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
<i>For 3" WG (Class B), Add</i>	5.27	
<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
<i>For 10" WG (Class A), Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13 13-0082 LF 6" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.51	12.65
<i>For 3" WG (Class B), Add</i>	3.17	
<i>For 4" Or 6" WG (Class A), Add</i>	6.75	
<i>For 10" WG (Class A), Add</i>	9.71	
<i>For Work In Restricted Working Space, Add</i>	6.33	
23 31 13 13-0083 LF 6" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.42	14.77
<i>For 3" WG (Class B), Add</i>	3.69	
<i>For 4" Or 6" WG (Class A), Add</i>	7.88	
<i>For 10" WG (Class A), Add</i>	11.32	
<i>For Work In Restricted Working Space, Add</i>	7.38	
23 31 13 13-0084 LF 6" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
<i>For 3" WG (Class B), Add</i>	4.22	
<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
<i>For 10" WG (Class A), Add</i>	12.94	
<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13 13-0085 LF 6" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
<i>For 3" WG (Class B), Add</i>	4.75	
<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
<i>For 10" WG (Class A), Add</i>	14.55	
<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13 13-0086 LF 6" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
<i>For 3" WG (Class B), Add</i>	5.27	
<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
<i>For 10" WG (Class A), Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13 13-0087 LF 6" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
<i>For 3" WG (Class B), Add</i>	5.80	
<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
<i>For 10" WG (Class A), Add</i>	17.79	
<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31 13 13-0088 LF 8" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.34	16.89
<i>For 3" WG (Class B), Add</i>	4.22	
<i>For 4" Or 6" WG (Class A), Add</i>	9.00	
<i>For 10" WG (Class A), Add</i>	12.94	
<i>For Work In Restricted Working Space, Add</i>	8.44	
23 31 13 13-0089 LF 8" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.26	18.98
<i>For 3" WG (Class B), Add</i>	4.75	
<i>For 4" Or 6" WG (Class A), Add</i>	10.12	
<i>For 10" WG (Class A), Add</i>	14.55	
<i>For Work In Restricted Working Space, Add</i>	9.49	
23 31 13 13-0090 LF 8" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
<i>For 3" WG (Class B), Add</i>	5.27	
<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
<i>For 10" WG (Class A), Add</i>	16.17	
<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31 13 13-0091 LF 8" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
<i>For 3" WG (Class B), Add</i>	5.80	
<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
<i>For 10" WG (Class A), Add</i>	17.79	
<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31 13 13-0092 LF 8" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
<i>For 3" WG (Class B), Add</i>	6.33	
<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
<i>For 10" WG (Class A), Add</i>	19.41	
<i>For Work In Restricted Working Space, Add</i>	12.66	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-0093	LF	8" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
			<i>For 3" WG (Class B), Add</i>	6.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
			<i>For 10" WG (Class A), Add</i>	21.02	
			<i>For Work In Restricted Working Space, Add</i>	13.71	
23 31	13 13-0094	LF	8" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
			<i>For 3" WG (Class B), Add</i>	7.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
			<i>For 10" WG (Class A), Add</i>	22.64	
			<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31	13 13-0095	LF	8" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
			<i>For 3" WG (Class B), Add</i>	7.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
			<i>For 10" WG (Class A), Add</i>	24.26	
			<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31	13 13-0096	LF	8" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
			<i>For 3" WG (Class B), Add</i>	8.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
			<i>For 10" WG (Class A), Add</i>	25.88	
			<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31	13 13-0097	LF	10" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	39.17	21.10
			<i>For 3" WG (Class B), Add</i>	5.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.25	
			<i>For 10" WG (Class A), Add</i>	16.17	
			<i>For Work In Restricted Working Space, Add</i>	10.55	
23 31	13 13-0098	LF	10" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.11	23.21
			<i>For 3" WG (Class B), Add</i>	5.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.38	
			<i>For 10" WG (Class A), Add</i>	17.79	
			<i>For Work In Restricted Working Space, Add</i>	11.60	
23 31	13 13-0099	LF	10" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
			<i>For 3" WG (Class B), Add</i>	6.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
			<i>For 10" WG (Class A), Add</i>	19.41	
			<i>For Work In Restricted Working Space, Add</i>	12.66	
23 31	13 13-0100	LF	10" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
			<i>For 3" WG (Class B), Add</i>	6.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
			<i>For 10" WG (Class A), Add</i>	21.02	
			<i>For Work In Restricted Working Space, Add</i>	13.71	
23 31	13 13-0101	LF	10" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
			<i>For 3" WG (Class B), Add</i>	7.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
			<i>For 10" WG (Class A), Add</i>	22.64	
			<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31	13 13-0102	LF	10" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
			<i>For 3" WG (Class B), Add</i>	7.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
			<i>For 10" WG (Class A), Add</i>	24.26	
			<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31	13 13-0103	LF	10" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
			<i>For 3" WG (Class B), Add</i>	8.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
			<i>For 10" WG (Class A), Add</i>	25.88	
			<i>For Work In Restricted Working Space, Add</i>	16.88	
23 31	13 13-0104	LF	10" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
			<i>For 3" WG (Class B), Add</i>	8.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	19.13	
			<i>For 10" WG (Class A), Add</i>	27.50	
			<i>For Work In Restricted Working Space, Add</i>	17.93	
23 31	13 13-0105	LF	12" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	47.01	25.31
			<i>For 3" WG (Class B), Add</i>	6.33	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.50	
			<i>For 10" WG (Class A), Add</i>	19.41	
			<i>For Work In Restricted Working Space, Add</i>	12.66	
23 31	13 13-0106	LF	12" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.92	27.42
			<i>For 3" WG (Class B), Add</i>	6.86	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.62	
			<i>For 10" WG (Class A), Add</i>	21.02	
			<i>For Work In Restricted Working Space, Add</i>	13.71	
23 31	13 13-0107	LF	12" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
			<i>For 3" WG (Class B), Add</i>	7.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.75	
			<i>For 10" WG (Class A), Add</i>	22.64	
			<i>For Work In Restricted Working Space, Add</i>	14.77	
23 31	13 13-0108	LF	12" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
			<i>For 3" WG (Class B), Add</i>	7.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.87	
			<i>For 10" WG (Class A), Add</i>	24.26	
			<i>For Work In Restricted Working Space, Add</i>	15.82	
23 31	13 13-0109	LF	12" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
			<i>For 3" WG (Class B), Add</i>	8.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.00	
			<i>For 10" WG (Class A), Add</i>	25.88	
			<i>For Work In Restricted Working Space, Add</i>	16.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0110 LF 12" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
For 3" WG (Class B), Add	8.97	
For 4" Or 6" WG (Class A), Add	19.13	
For 10" WG (Class A), Add	27.50	
For Work In Restricted Working Space, Add	17.93	
23 31 13 13-0111 LF 12" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0112 LF 12" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.85	29.54
For 3" WG (Class B), Add	7.38	
For 4" Or 6" WG (Class A), Add	15.75	
For 10" WG (Class A), Add	22.64	
For Work In Restricted Working Space, Add	14.77	
23 31 13 13-0113 LF 14" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.76	31.64
For 3" WG (Class B), Add	7.91	
For 4" Or 6" WG (Class A), Add	16.87	
For 10" WG (Class A), Add	24.26	
For Work In Restricted Working Space, Add	15.82	
23 31 13 13-0114 LF 14" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
For 3" WG (Class B), Add	8.44	
For 4" Or 6" WG (Class A), Add	18.00	
For 10" WG (Class A), Add	25.88	
For Work In Restricted Working Space, Add	16.88	
23 31 13 13-0115 LF 14" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
For 3" WG (Class B), Add	8.97	
For 4" Or 6" WG (Class A), Add	19.13	
For 10" WG (Class A), Add	27.50	
For Work In Restricted Working Space, Add	17.93	
23 31 13 13-0116 LF 14" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0117 LF 14" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
For 3" WG (Class B), Add	10.02	
For 4" Or 6" WG (Class A), Add	21.38	
For 10" WG (Class A), Add	30.73	
For Work In Restricted Working Space, Add	20.04	
23 31 13 13-0118 LF 16" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.69	33.75
For 3" WG (Class B), Add	8.44	
For 4" Or 6" WG (Class A), Add	18.00	
For 10" WG (Class A), Add	25.88	
For Work In Restricted Working Space, Add	16.88	
23 31 13 13-0119 LF 16" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.62	35.87
For 3" WG (Class B), Add	8.97	
For 4" Or 6" WG (Class A), Add	19.13	
For 10" WG (Class A), Add	27.50	
For Work In Restricted Working Space, Add	17.93	
23 31 13 13-0120 LF 16" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0121 LF 16" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
For 3" WG (Class B), Add	10.02	
For 4" Or 6" WG (Class A), Add	21.38	
For 10" WG (Class A), Add	30.73	
For Work In Restricted Working Space, Add	20.04	
23 31 13 13-0122 LF 16" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
For 3" WG (Class B), Add	10.55	
For 4" Or 6" WG (Class A), Add	22.50	
For 10" WG (Class A), Add	32.34	
For Work In Restricted Working Space, Add	21.09	
23 31 13 13-0123 LF 18" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.52	37.96
For 3" WG (Class B), Add	9.49	
For 4" Or 6" WG (Class A), Add	20.25	
For 10" WG (Class A), Add	29.11	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0124 LF 18" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.45	40.08
For 3" WG (Class B), Add	10.02	
For 4" Or 6" WG (Class A), Add	21.38	
For 10" WG (Class A), Add	30.73	
For Work In Restricted Working Space, Add	20.04	
23 31 13 13-0125 LF 18" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
For 3" WG (Class B), Add	10.55	
For 4" Or 6" WG (Class A), Add	22.50	
For 10" WG (Class A), Add	32.34	
For Work In Restricted Working Space, Add	21.09	
23 31 13 13-0126 LF 18" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	82.27	44.30
For 3" WG (Class B), Add	11.07	
For 4" Or 6" WG (Class A), Add	23.63	
For 10" WG (Class A), Add	33.96	
For Work In Restricted Working Space, Add	22.15	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0127	LF 20" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	78.35	42.19
			For 3" WG (Class B), Add	10.55	
			For 4" Or 6" WG (Class A), Add	22.50	
			For 10" WG (Class A), Add	32.34	
			For Work In Restricted Working Space, Add	21.09	
23 31	13	13-0128	LF 20" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	82.27	44.30
			For 3" WG (Class B), Add	11.07	
			For 4" Or 6" WG (Class A), Add	23.63	
			For 10" WG (Class A), Add	33.96	
			For Work In Restricted Working Space, Add	22.15	
23 31	13	13-0129	LF 20" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.20	46.41
			For 3" WG (Class B), Add	11.60	
			For 4" Or 6" WG (Class A), Add	24.75	
			For 10" WG (Class A), Add	35.58	
			For Work In Restricted Working Space, Add	23.21	
23 31	13	13-0130	LF 22" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.20	46.41
			For 3" WG (Class B), Add	11.60	
			For 4" Or 6" WG (Class A), Add	24.75	
			For 10" WG (Class A), Add	35.58	
			For Work In Restricted Working Space, Add	23.21	
23 31	13	13-0131	LF 22" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.10	48.52
			For 3" WG (Class B), Add	12.13	
			For 4" Or 6" WG (Class A), Add	25.87	
			For 10" WG (Class A), Add	37.19	
			For Work In Restricted Working Space, Add	24.26	
23 31	13	13-0132	LF 24" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork.....	94.02	50.63
			For 3" WG (Class B), Add	12.66	
			For 4" Or 6" WG (Class A), Add	27.00	
			For 10" WG (Class A), Add	38.81	
			For Work In Restricted Working Space, Add	25.31	
23 31 13 13-0133 26 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>					
23 31	13	13-0134	LF 4" x 4", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	18.19	9.78
			For 3" WG (Class B), Add	2.45	
			For 4" Or 6" WG (Class A), Add	5.22	
			For 10" WG (Class A), Add	7.51	
			For Work In Restricted Working Space, Add	4.90	
23 31	13	13-0135	LF 4" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	22.72	12.23
			For 3" WG (Class B), Add	3.06	
			For 4" Or 6" WG (Class A), Add	6.52	
			For 10" WG (Class A), Add	9.38	
			For Work In Restricted Working Space, Add	6.12	
23 31	13	13-0136	LF 4" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.27	14.69
			For 3" WG (Class B), Add	3.67	
			For 4" Or 6" WG (Class A), Add	7.83	
			For 10" WG (Class A), Add	11.26	
			For Work In Restricted Working Space, Add	7.34	
23 31	13	13-0137	LF 4" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.81	17.14
			For 3" WG (Class B), Add	4.28	
			For 4" Or 6" WG (Class A), Add	9.14	
			For 10" WG (Class A), Add	13.13	
			For Work In Restricted Working Space, Add	8.57	
23 31	13	13-0138	LF 4" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
			For 3" WG (Class B), Add	4.89	
			For 4" Or 6" WG (Class A), Add	10.44	
			For 10" WG (Class A), Add	15.01	
			For Work In Restricted Working Space, Add	9.79	
23 31	13	13-0139	LF 4" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.89	22.02
			For 3" WG (Class B), Add	5.51	
			For 4" Or 6" WG (Class A), Add	11.74	
			For 10" WG (Class A), Add	16.88	
			For Work In Restricted Working Space, Add	11.01	
23 31	13	13-0140	LF 4" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
			For 3" WG (Class B), Add	6.12	
			For 4" Or 6" WG (Class A), Add	13.05	
			For 10" WG (Class A), Add	18.76	
			For Work In Restricted Working Space, Add	12.24	
23 31	13	13-0141	LF 6" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.27	14.69
			For 3" WG (Class B), Add	3.67	
			For 4" Or 6" WG (Class A), Add	7.83	
			For 10" WG (Class A), Add	11.26	
			For Work In Restricted Working Space, Add	7.34	
23 31	13	13-0142	LF 6" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.81	17.14
			For 3" WG (Class B), Add	4.28	
			For 4" Or 6" WG (Class A), Add	9.14	
			For 10" WG (Class A), Add	13.13	
			For Work In Restricted Working Space, Add	8.57	
23 31	13	13-0143	LF 6" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
			For 3" WG (Class B), Add	4.89	
			For 4" Or 6" WG (Class A), Add	10.44	
			For 10" WG (Class A), Add	15.01	
			For Work In Restricted Working Space, Add	9.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0144 LF 6" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.90	22.02
<i>For 3" WG (Class B), Add</i>	5.51	
<i>For 4" Or 6" WG (Class A), Add</i>	11.74	
<i>For 10" WG (Class A), Add</i>	16.88	
<i>For Work In Restricted Working Space, Add</i>	11.01	
23 31 13 13-0145 LF 6" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0146 LF 6" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.00	26.92
<i>For 3" WG (Class B), Add</i>	6.73	
<i>For 4" Or 6" WG (Class A), Add</i>	14.36	
<i>For 10" WG (Class A), Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	13.46	
23 31 13 13-0147 LF 8" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	36.35	19.58
<i>For 3" WG (Class B), Add</i>	4.89	
<i>For 4" Or 6" WG (Class A), Add</i>	10.44	
<i>For 10" WG (Class A), Add</i>	15.01	
<i>For Work In Restricted Working Space, Add</i>	9.79	
23 31 13 13-0148 LF 8" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	40.90	22.02
<i>For 3" WG (Class B), Add</i>	5.51	
<i>For 4" Or 6" WG (Class A), Add</i>	11.74	
<i>For 10" WG (Class A), Add</i>	16.88	
<i>For Work In Restricted Working Space, Add</i>	11.01	
23 31 13 13-0149 LF 8" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0150 LF 8" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	50.00	26.92
<i>For 3" WG (Class B), Add</i>	6.73	
<i>For 4" Or 6" WG (Class A), Add</i>	14.36	
<i>For 10" WG (Class A), Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	13.46	
23 31 13 13-0151 LF 8" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.66	
<i>For 10" WG (Class A), Add</i>	22.52	
<i>For Work In Restricted Working Space, Add</i>	14.69	
23 31 13 13-0152 LF 8" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
<i>For 3" WG (Class B), Add</i>	7.95	
<i>For 4" Or 6" WG (Class A), Add</i>	16.97	
<i>For 10" WG (Class A), Add</i>	24.39	
<i>For Work In Restricted Working Space, Add</i>	15.91	
23 31 13 13-0153 LF 8" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
<i>For 3" WG (Class B), Add</i>	8.57	
<i>For 4" Or 6" WG (Class A), Add</i>	18.27	
<i>For 10" WG (Class A), Add</i>	26.27	
<i>For Work In Restricted Working Space, Add</i>	17.13	
23 31 13 13-0154 LF 8" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
<i>For 3" WG (Class B), Add</i>	9.18	
<i>For 4" Or 6" WG (Class A), Add</i>	19.58	
<i>For 10" WG (Class A), Add</i>	28.14	
<i>For Work In Restricted Working Space, Add</i>	18.35	
23 31 13 13-0155 LF 8" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
<i>For 3" WG (Class B), Add</i>	9.79	
<i>For 4" Or 6" WG (Class A), Add</i>	20.88	
<i>For 10" WG (Class A), Add</i>	30.02	
<i>For Work In Restricted Working Space, Add</i>	19.58	
23 31 13 13-0156 LF 10" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	45.45	24.47
<i>For 3" WG (Class B), Add</i>	6.12	
<i>For 4" Or 6" WG (Class A), Add</i>	13.05	
<i>For 10" WG (Class A), Add</i>	18.76	
<i>For Work In Restricted Working Space, Add</i>	12.24	
23 31 13 13-0157 LF 10" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.99	26.92
<i>For 3" WG (Class B), Add</i>	6.73	
<i>For 4" Or 6" WG (Class A), Add</i>	14.36	
<i>For 10" WG (Class A), Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	13.46	
23 31 13 13-0158 LF 10" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.66	
<i>For 10" WG (Class A), Add</i>	22.52	
<i>For Work In Restricted Working Space, Add</i>	14.69	
23 31 13 13-0159 LF 10" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
<i>For 3" WG (Class B), Add</i>	7.95	
<i>For 4" Or 6" WG (Class A), Add</i>	16.97	
<i>For 10" WG (Class A), Add</i>	24.39	
<i>For Work In Restricted Working Space, Add</i>	15.91	
23 31 13 13-0160 LF 10" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
<i>For 3" WG (Class B), Add</i>	8.57	
<i>For 4" Or 6" WG (Class A), Add</i>	18.27	
<i>For 10" WG (Class A), Add</i>	26.27	
<i>For Work In Restricted Working Space, Add</i>	17.13	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0161	LF 10" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0162	LF 10" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	
23 31	13	13-0163	LF 10" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
			For 3" WG (Class B), Add	10.40	
			For 4" Or 6" WG (Class A), Add	22.19	
			For 10" WG (Class A), Add	31.90	
			For Work In Restricted Working Space, Add	20.80	
23 31	13	13-0164	LF 12" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.55	29.37
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.66	
			For 10" WG (Class A), Add	22.52	
			For Work In Restricted Working Space, Add	14.69	
23 31	13	13-0165	LF 12" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	59.09	31.81
			For 3" WG (Class B), Add	7.95	
			For 4" Or 6" WG (Class A), Add	16.97	
			For 10" WG (Class A), Add	24.39	
			For Work In Restricted Working Space, Add	15.91	
23 31	13	13-0166	LF 12" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
			For 3" WG (Class B), Add	8.57	
			For 4" Or 6" WG (Class A), Add	18.27	
			For 10" WG (Class A), Add	26.27	
			For Work In Restricted Working Space, Add	17.13	
23 31	13	13-0167	LF 12" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0168	LF 12" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	
23 31	13	13-0169	LF 12" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
			For 3" WG (Class B), Add	10.40	
			For 4" Or 6" WG (Class A), Add	22.19	
			For 10" WG (Class A), Add	31.90	
			For Work In Restricted Working Space, Add	20.80	
23 31	13	13-0170	LF 12" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
			For 3" WG (Class B), Add	11.01	
			For 4" Or 6" WG (Class A), Add	23.49	
			For 10" WG (Class A), Add	33.77	
			For Work In Restricted Working Space, Add	22.03	
23 31	13	13-0171	LF 14" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.62	34.26
			For 3" WG (Class B), Add	8.57	
			For 4" Or 6" WG (Class A), Add	18.27	
			For 10" WG (Class A), Add	26.27	
			For Work In Restricted Working Space, Add	17.13	
23 31	13	13-0172	LF 14" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	68.18	36.70
			For 3" WG (Class B), Add	9.18	
			For 4" Or 6" WG (Class A), Add	19.58	
			For 10" WG (Class A), Add	28.14	
			For Work In Restricted Working Space, Add	18.35	
23 31	13	13-0173	LF 14" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	
23 31	13	13-0174	LF 14" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
			For 3" WG (Class B), Add	10.40	
			For 4" Or 6" WG (Class A), Add	22.19	
			For 10" WG (Class A), Add	31.90	
			For Work In Restricted Working Space, Add	20.80	
23 31	13	13-0175	LF 14" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
			For 3" WG (Class B), Add	11.01	
			For 4" Or 6" WG (Class A), Add	23.49	
			For 10" WG (Class A), Add	33.77	
			For Work In Restricted Working Space, Add	22.03	
23 31	13	13-0176	LF 14" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
			For 3" WG (Class B), Add	11.63	
			For 4" Or 6" WG (Class A), Add	24.80	
			For 10" WG (Class A), Add	35.65	
			For Work In Restricted Working Space, Add	23.25	
23 31	13	13-0177	LF 16" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	72.71	39.15
			For 3" WG (Class B), Add	9.79	
			For 4" Or 6" WG (Class A), Add	20.88	
			For 10" WG (Class A), Add	30.02	
			For Work In Restricted Working Space, Add	19.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0178 LF 16" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.27	41.61
<i>For 3" WG (Class B), Add</i>	10.40	
<i>For 4" Or 6" WG (Class A), Add</i>	22.19	
<i>For 10" WG (Class A), Add</i>	31.90	
<i>For Work In Restricted Working Space, Add</i>	20.80	
23 31 13 13-0179 LF 16" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0180 LF 16" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
<i>For 3" WG (Class B), Add</i>	11.63	
<i>For 4" Or 6" WG (Class A), Add</i>	24.80	
<i>For 10" WG (Class A), Add</i>	35.65	
<i>For Work In Restricted Working Space, Add</i>	23.25	
23 31 13 13-0181 LF 16" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
<i>For 3" WG (Class B), Add</i>	12.24	
<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
<i>For 10" WG (Class A), Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13 13-0182 LF 18" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	81.81	44.05
<i>For 3" WG (Class B), Add</i>	11.01	
<i>For 4" Or 6" WG (Class A), Add</i>	23.49	
<i>For 10" WG (Class A), Add</i>	33.77	
<i>For Work In Restricted Working Space, Add</i>	22.03	
23 31 13 13-0183 LF 18" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.37	46.50
<i>For 3" WG (Class B), Add</i>	11.63	
<i>For 4" Or 6" WG (Class A), Add</i>	24.80	
<i>For 10" WG (Class A), Add</i>	35.65	
<i>For Work In Restricted Working Space, Add</i>	23.25	
23 31 13 13-0184 LF 18" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
<i>For 3" WG (Class B), Add</i>	12.24	
<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
<i>For 10" WG (Class A), Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13 13-0185 LF 18" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	95.44	51.39
<i>For 3" WG (Class B), Add</i>	12.85	
<i>For 4" Or 6" WG (Class A), Add</i>	27.41	
<i>For 10" WG (Class A), Add</i>	39.40	
<i>For Work In Restricted Working Space, Add</i>	25.70	
23 31 13 13-0186 LF 20" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.90	48.95
<i>For 3" WG (Class B), Add</i>	12.24	
<i>For 4" Or 6" WG (Class A), Add</i>	26.10	
<i>For 10" WG (Class A), Add</i>	37.52	
<i>For Work In Restricted Working Space, Add</i>	24.47	
23 31 13 13-0187 LF 20" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	95.44	51.39
<i>For 3" WG (Class B), Add</i>	12.85	
<i>For 4" Or 6" WG (Class A), Add</i>	27.41	
<i>For 10" WG (Class A), Add</i>	39.40	
<i>For Work In Restricted Working Space, Add</i>	25.70	
23 31 13 13-0188 LF 20" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.97	53.83
<i>For 3" WG (Class B), Add</i>	13.46	
<i>For 4" Or 6" WG (Class A), Add</i>	28.71	
<i>For 10" WG (Class A), Add</i>	41.27	
<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13 13-0189 LF 22" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.97	53.83
<i>For 3" WG (Class B), Add</i>	13.46	
<i>For 4" Or 6" WG (Class A), Add</i>	28.71	
<i>For 10" WG (Class A), Add</i>	41.27	
<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13 13-0190 LF 22" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	104.53	56.28
<i>For 3" WG (Class B), Add</i>	14.07	
<i>For 4" Or 6" WG (Class A), Add</i>	30.02	
<i>For 10" WG (Class A), Add</i>	43.15	
<i>For Work In Restricted Working Space, Add</i>	28.14	
23 31 13 13-0191 LF 24" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	109.09	58.73
<i>For 3" WG (Class B), Add</i>	14.68	
<i>For 4" Or 6" WG (Class A), Add</i>	31.32	
<i>For 10" WG (Class A), Add</i>	45.03	
<i>For Work In Restricted Working Space, Add</i>	29.37	
23 31 13 13-0192 24 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0193 LF 4" x 4", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.70	15.19
<i>For 3" WG (Class B), Add</i>	3.80	
<i>For 4" Or 6" WG (Class A), Add</i>	8.10	
<i>For 10" WG (Class A), Add</i>	11.65	
<i>For Work In Restricted Working Space, Add</i>	7.60	
23 31 13 13-0194 LF 4" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	34.62	18.98
<i>For 3" WG (Class B), Add</i>	4.75	
<i>For 4" Or 6" WG (Class A), Add</i>	10.13	
<i>For 10" WG (Class A), Add</i>	14.56	
<i>For Work In Restricted Working Space, Add</i>	9.50	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0195 LF 4" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.78
For 3" WG (Class B), Add	5.70	
For 4" Or 6" WG (Class A), Add	12.15	
For 10" WG (Class A), Add	17.47	
For Work In Restricted Working Space, Add	11.39	
23 31 13 13-0196 LF 4" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	48.46	26.59
For 3" WG (Class B), Add	6.65	
For 4" Or 6" WG (Class A), Add	14.18	
For 10" WG (Class A), Add	20.38	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0197 LF 4" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0198 LF 4" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	
23 31 13 13-0199 LF 4" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0200 LF 6" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.78
For 3" WG (Class B), Add	5.70	
For 4" Or 6" WG (Class A), Add	12.15	
For 10" WG (Class A), Add	17.47	
For Work In Restricted Working Space, Add	11.39	
23 31 13 13-0201 LF 6" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	48.46	26.59
For 3" WG (Class B), Add	6.65	
For 4" Or 6" WG (Class A), Add	14.18	
For 10" WG (Class A), Add	20.38	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0202 LF 6" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0203 LF 6" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	
23 31 13 13-0204 LF 6" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0205 LF 6" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
For 3" WG (Class B), Add	10.44	
For 4" Or 6" WG (Class A), Add	22.28	
For 10" WG (Class A), Add	32.03	
For Work In Restricted Working Space, Add	20.89	
23 31 13 13-0206 LF 8" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	55.39	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0207 LF 8" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	62.32	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	
23 31 13 13-0208 LF 8" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0209 LF 8" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
For 3" WG (Class B), Add	10.44	
For 4" Or 6" WG (Class A), Add	22.28	
For 10" WG (Class A), Add	32.03	
For Work In Restricted Working Space, Add	20.89	
23 31 13 13-0210 LF 8" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
For 3" WG (Class B), Add	11.39	
For 4" Or 6" WG (Class A), Add	24.31	
For 10" WG (Class A), Add	34.94	
For Work In Restricted Working Space, Add	22.79	
23 31 13 13-0211 LF 8" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
For 3" WG (Class B), Add	12.34	
For 4" Or 6" WG (Class A), Add	26.33	
For 10" WG (Class A), Add	37.85	
For Work In Restricted Working Space, Add	24.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0212 LF 8" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0213 LF 8" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0214 LF 8" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0215 LF 10" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	69.25	37.97
<i>For 3" WG (Class B), Add</i>	9.50	
<i>For 4" Or 6" WG (Class A), Add</i>	20.26	
<i>For 10" WG (Class A), Add</i>	29.12	
<i>For Work In Restricted Working Space, Add</i>	18.99	
23 31 13 13-0216 LF 10" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	76.17	41.78
<i>For 3" WG (Class B), Add</i>	10.44	
<i>For 4" Or 6" WG (Class A), Add</i>	22.28	
<i>For 10" WG (Class A), Add</i>	32.03	
<i>For Work In Restricted Working Space, Add</i>	20.89	
23 31 13 13-0217 LF 10" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0218 LF 10" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0219 LF 10" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0220 LF 10" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0221 LF 10" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0222 LF 10" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0223 LF 10" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0224 LF 10" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0225 LF 10" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0226 LF 12" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.10	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0227 LF 12" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	90.01	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0228 LF 12" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0229 LF 12" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
For 3" WG (Class B), Add	14.24	
For 4" Or 6" WG (Class A), Add	30.38	
For 10" WG (Class A), Add	43.67	
For Work In Restricted Working Space, Add	28.48	
23 31 13 13-0230 LF 12" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0231 LF 12" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0232 LF 12" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
For 3" WG (Class B), Add	17.09	
For 4" Or 6" WG (Class A), Add	36.46	
For 10" WG (Class A), Add	52.41	
For Work In Restricted Working Space, Add	34.18	
23 31 13 13-0233 LF 12" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	
23 31 13 13-0234 LF 12" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0235 LF 12" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0236 LF 14" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	96.94	53.17
For 3" WG (Class B), Add	13.29	
For 4" Or 6" WG (Class A), Add	28.36	
For 10" WG (Class A), Add	40.76	
For Work In Restricted Working Space, Add	26.58	
23 31 13 13-0237 LF 14" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	103.86	56.97
For 3" WG (Class B), Add	14.24	
For 4" Or 6" WG (Class A), Add	30.38	
For 10" WG (Class A), Add	43.67	
For Work In Restricted Working Space, Add	28.48	
23 31 13 13-0238 LF 14" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0239 LF 14" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0240 LF 14" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
For 3" WG (Class B), Add	17.09	
For 4" Or 6" WG (Class A), Add	36.46	
For 10" WG (Class A), Add	52.41	
For Work In Restricted Working Space, Add	34.18	
23 31 13 13-0241 LF 14" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	
23 31 13 13-0242 LF 14" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0243 LF 14" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0244 LF 14" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0245 LF 16" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	110.79	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0246 LF 16" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	117.71	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0247 LF 16" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0248 LF 16" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0249 LF 16" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0250 LF 16" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0251 LF 16" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0252 LF 16" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0253 LF 18" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.64	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0254 LF 18" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	131.56	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0255 LF 18" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0256 LF 18" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0257 LF 18" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0258 LF 18" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0259 LF 18" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0260 LF 20" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	138.48	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0261 LF 20" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	145.40	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0262 LF 20" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0263 LF 20" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0264 LF 20" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0265 LF 20" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0266 LF 22" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	152.33	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0267 LF 22" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	159.25	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0268 LF 22" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0269 LF 22" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0270 LF 22" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0271 LF 24" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.19	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0272 LF 24" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.11	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0273 LF 24" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0274 LF 24" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	186.96	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0275 LF 26" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	180.04	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0276 LF 26" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	186.96	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0277 LF 26" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	193.88	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0278 LF 28" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	193.88	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0279 LF 28" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	200.80	110.13
For 3" WG (Class B), Add	27.53	
For 4" Or 6" WG (Class A), Add	58.74	
For 10" WG (Class A), Add	84.43	
For Work In Restricted Working Space, Add	55.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0280 LF 30" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.74	113.93
For 3" WG (Class B), Add	28.48	
For 4" Or 6" WG (Class A), Add	60.76	
For 10" WG (Class A), Add	87.35	
For Work In Restricted Working Space, Add	56.97	
23 31 13 13-0281 22 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0282 LF 4" x 4", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	28.21	15.19
For 3" WG (Class B), Add	3.80	
For 4" Or 6" WG (Class A), Add	8.10	
For 10" WG (Class A), Add	11.65	
For Work In Restricted Working Space, Add	7.60	
23 31 13 13-0283 LF 4" x 6", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.27	18.98
For 3" WG (Class B), Add	4.75	
For 4" Or 6" WG (Class A), Add	10.13	
For 10" WG (Class A), Add	14.56	
For Work In Restricted Working Space, Add	9.50	
23 31 13 13-0284 LF 4" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.31	22.78
For 3" WG (Class B), Add	5.70	
For 4" Or 6" WG (Class A), Add	12.15	
For 10" WG (Class A), Add	17.47	
For Work In Restricted Working Space, Add	11.39	
23 31 13 13-0285 LF 4" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.37	26.59
For 3" WG (Class B), Add	6.65	
For 4" Or 6" WG (Class A), Add	14.18	
For 10" WG (Class A), Add	20.38	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0286 LF 4" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0287 LF 4" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	
23 31 13 13-0288 LF 4" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0289 LF 6" x 6", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.31	22.78
For 3" WG (Class B), Add	5.70	
For 4" Or 6" WG (Class A), Add	12.15	
For 10" WG (Class A), Add	17.47	
For Work In Restricted Working Space, Add	11.39	
23 31 13 13-0290 LF 6" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.37	26.59
For 3" WG (Class B), Add	6.65	
For 4" Or 6" WG (Class A), Add	14.18	
For 10" WG (Class A), Add	20.38	
For Work In Restricted Working Space, Add	13.29	
23 31 13 13-0291 LF 6" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0292 LF 6" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	
23 31 13 13-0293 LF 6" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0294 LF 6" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
For 3" WG (Class B), Add	10.44	
For 4" Or 6" WG (Class A), Add	22.28	
For 10" WG (Class A), Add	32.03	
For Work In Restricted Working Space, Add	20.89	
23 31 13 13-0295 LF 8" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	56.42	30.39
For 3" WG (Class B), Add	7.59	
For 4" Or 6" WG (Class A), Add	16.20	
For 10" WG (Class A), Add	23.29	
For Work In Restricted Working Space, Add	15.19	
23 31 13 13-0296 LF 8" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	63.48	34.18
For 3" WG (Class B), Add	8.55	
For 4" Or 6" WG (Class A), Add	18.23	
For 10" WG (Class A), Add	26.21	
For Work In Restricted Working Space, Add	17.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0297 LF 8" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0298 LF 8" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
For 3" WG (Class B), Add	10.44	
For 4" Or 6" WG (Class A), Add	22.28	
For 10" WG (Class A), Add	32.03	
For Work In Restricted Working Space, Add	20.89	
23 31 13 13-0299 LF 8" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
For 3" WG (Class B), Add	11.39	
For 4" Or 6" WG (Class A), Add	24.31	
For 10" WG (Class A), Add	34.94	
For Work In Restricted Working Space, Add	22.79	
23 31 13 13-0300 LF 8" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
For 3" WG (Class B), Add	12.34	
For 4" Or 6" WG (Class A), Add	26.33	
For 10" WG (Class A), Add	37.85	
For Work In Restricted Working Space, Add	24.68	
23 31 13 13-0301 LF 8" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
For 3" WG (Class B), Add	13.29	
For 4" Or 6" WG (Class A), Add	28.36	
For 10" WG (Class A), Add	40.76	
For Work In Restricted Working Space, Add	26.58	
23 31 13 13-0302 LF 8" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
For 3" WG (Class B), Add	14.24	
For 4" Or 6" WG (Class A), Add	30.38	
For 10" WG (Class A), Add	43.67	
For Work In Restricted Working Space, Add	28.48	
23 31 13 13-0303 LF 8" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0304 LF 10" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	70.54	37.97
For 3" WG (Class B), Add	9.50	
For 4" Or 6" WG (Class A), Add	20.26	
For 10" WG (Class A), Add	29.12	
For Work In Restricted Working Space, Add	18.99	
23 31 13 13-0305 LF 10" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	77.59	41.78
For 3" WG (Class B), Add	10.44	
For 4" Or 6" WG (Class A), Add	22.28	
For 10" WG (Class A), Add	32.03	
For Work In Restricted Working Space, Add	20.89	
23 31 13 13-0306 LF 10" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
For 3" WG (Class B), Add	11.39	
For 4" Or 6" WG (Class A), Add	24.31	
For 10" WG (Class A), Add	34.94	
For Work In Restricted Working Space, Add	22.79	
23 31 13 13-0307 LF 10" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
For 3" WG (Class B), Add	12.34	
For 4" Or 6" WG (Class A), Add	26.33	
For 10" WG (Class A), Add	37.85	
For Work In Restricted Working Space, Add	24.68	
23 31 13 13-0308 LF 10" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
For 3" WG (Class B), Add	13.29	
For 4" Or 6" WG (Class A), Add	28.36	
For 10" WG (Class A), Add	40.76	
For Work In Restricted Working Space, Add	26.58	
23 31 13 13-0309 LF 10" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
For 3" WG (Class B), Add	14.24	
For 4" Or 6" WG (Class A), Add	30.38	
For 10" WG (Class A), Add	43.67	
For Work In Restricted Working Space, Add	28.48	
23 31 13 13-0310 LF 10" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0311 LF 10" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0312 LF 10" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
For 3" WG (Class B), Add	17.09	
For 4" Or 6" WG (Class A), Add	36.46	
For 10" WG (Class A), Add	52.41	
For Work In Restricted Working Space, Add	34.18	
23 31 13 13-0313 LF 10" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0314 LF 10" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0315 LF 10" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0316 LF 12" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	84.64	45.57
<i>For 3" WG (Class B), Add</i>	11.39	
<i>For 4" Or 6" WG (Class A), Add</i>	24.31	
<i>For 10" WG (Class A), Add</i>	34.94	
<i>For Work In Restricted Working Space, Add</i>	22.79	
23 31 13 13-0317 LF 12" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.69	49.37
<i>For 3" WG (Class B), Add</i>	12.34	
<i>For 4" Or 6" WG (Class A), Add</i>	26.33	
<i>For 10" WG (Class A), Add</i>	37.85	
<i>For Work In Restricted Working Space, Add</i>	24.68	
23 31 13 13-0318 LF 12" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0319 LF 12" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 31 13 13-0320 LF 12" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
<i>For 3" WG (Class B), Add</i>	15.19	
<i>For 4" Or 6" WG (Class A), Add</i>	32.41	
<i>For 10" WG (Class A), Add</i>	46.58	
<i>For Work In Restricted Working Space, Add</i>	30.38	
23 31 13 13-0321 LF 12" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
<i>For 3" WG (Class B), Add</i>	16.14	
<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
<i>For 10" WG (Class A), Add</i>	49.50	
<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13 13-0322 LF 12" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0323 LF 12" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0324 LF 12" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0325 LF 12" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0326 LF 12" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0327 LF 12" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0328 LF 12" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0329 LF 14" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	98.74	53.17
<i>For 3" WG (Class B), Add</i>	13.29	
<i>For 4" Or 6" WG (Class A), Add</i>	28.36	
<i>For 10" WG (Class A), Add</i>	40.76	
<i>For Work In Restricted Working Space, Add</i>	26.58	
23 31 13 13-0330 LF 14" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	105.79	56.97
<i>For 3" WG (Class B), Add</i>	14.24	
<i>For 4" Or 6" WG (Class A), Add</i>	30.38	
<i>For 10" WG (Class A), Add</i>	43.67	
<i>For Work In Restricted Working Space, Add</i>	28.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0331 LF 14" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0332 LF 14" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0333 LF 14" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
For 3" WG (Class B), Add	17.09	
For 4" Or 6" WG (Class A), Add	36.46	
For 10" WG (Class A), Add	52.41	
For Work In Restricted Working Space, Add	34.18	
23 31 13 13-0334 LF 14" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	
23 31 13 13-0335 LF 14" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0336 LF 14" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0337 LF 14" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0338 LF 14" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0339 LF 14" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0340 LF 14" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0341 LF 16" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	112.85	60.76
For 3" WG (Class B), Add	15.19	
For 4" Or 6" WG (Class A), Add	32.41	
For 10" WG (Class A), Add	46.58	
For Work In Restricted Working Space, Add	30.38	
23 31 13 13-0342 LF 16" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	119.90	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0343 LF 16" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
For 3" WG (Class B), Add	17.09	
For 4" Or 6" WG (Class A), Add	36.46	
For 10" WG (Class A), Add	52.41	
For Work In Restricted Working Space, Add	34.18	
23 31 13 13-0344 LF 16" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
For 3" WG (Class B), Add	18.04	
For 4" Or 6" WG (Class A), Add	38.48	
For 10" WG (Class A), Add	55.32	
For Work In Restricted Working Space, Add	36.08	
23 31 13 13-0345 LF 16" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0346 LF 16" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0347 LF 16" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0348 LF 16" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0349 LF 16" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0350 LF 16" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0351 LF 16" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0352 LF 16" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
<i>For 3" WG (Class B), Add</i>	25.64	
<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
<i>For 10" WG (Class A), Add</i>	78.61	
<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0353 LF 16" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0354 LF 16" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0355 LF 16" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0356 LF 18" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	126.96	68.35
<i>For 3" WG (Class B), Add</i>	17.09	
<i>For 4" Or 6" WG (Class A), Add</i>	36.46	
<i>For 10" WG (Class A), Add</i>	52.41	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 31 13 13-0357 LF 18" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	134.01	72.16
<i>For 3" WG (Class B), Add</i>	18.04	
<i>For 4" Or 6" WG (Class A), Add</i>	38.48	
<i>For 10" WG (Class A), Add</i>	55.32	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 31 13 13-0358 LF 18" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
<i>For 3" WG (Class B), Add</i>	18.99	
<i>For 4" Or 6" WG (Class A), Add</i>	40.51	
<i>For 10" WG (Class A), Add</i>	58.23	
<i>For Work In Restricted Working Space, Add</i>	37.97	
23 31 13 13-0359 LF 18" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
<i>For 3" WG (Class B), Add</i>	19.94	
<i>For 4" Or 6" WG (Class A), Add</i>	42.53	
<i>For 10" WG (Class A), Add</i>	61.14	
<i>For Work In Restricted Working Space, Add</i>	39.87	
23 31 13 13-0360 LF 18" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0361 LF 18" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0362 LF 18" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0363 LF 18" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0364 LF 18" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0365 LF 18" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0366 LF 18" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0367 LF 18" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
For 3" WG (Class B), Add	27.53	
For 4" Or 6" WG (Class A), Add	58.74	
For 10" WG (Class A), Add	84.43	
For Work In Restricted Working Space, Add	55.07	
23 31 13 13-0368 LF 18" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
For 3" WG (Class B), Add	28.48	
For 4" Or 6" WG (Class A), Add	60.76	
For 10" WG (Class A), Add	87.35	
For Work In Restricted Working Space, Add	56.97	
23 31 13 13-0369 LF 18" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
For 3" WG (Class B), Add	29.43	
For 4" Or 6" WG (Class A), Add	62.79	
For 10" WG (Class A), Add	90.26	
For Work In Restricted Working Space, Add	58.86	
23 31 13 13-0370 LF 18" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
For 3" WG (Class B), Add	30.38	
For 4" Or 6" WG (Class A), Add	64.81	
For 10" WG (Class A), Add	93.17	
For Work In Restricted Working Space, Add	60.76	
23 31 13 13-0371 LF 20" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.05	75.96
For 3" WG (Class B), Add	18.99	
For 4" Or 6" WG (Class A), Add	40.51	
For 10" WG (Class A), Add	58.23	
For Work In Restricted Working Space, Add	37.97	
23 31 13 13-0372 LF 20" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	148.11	79.76
For 3" WG (Class B), Add	19.94	
For 4" Or 6" WG (Class A), Add	42.53	
For 10" WG (Class A), Add	61.14	
For Work In Restricted Working Space, Add	39.87	
23 31 13 13-0373 LF 20" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
For 3" WG (Class B), Add	20.89	
For 4" Or 6" WG (Class A), Add	44.56	
For 10" WG (Class A), Add	64.05	
For Work In Restricted Working Space, Add	41.77	
23 31 13 13-0374 LF 20" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.58	
For 10" WG (Class A), Add	66.96	
For Work In Restricted Working Space, Add	43.67	
23 31 13 13-0375 LF 20" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
For 3" WG (Class B), Add	22.79	
For 4" Or 6" WG (Class A), Add	48.61	
For 10" WG (Class A), Add	69.88	
For Work In Restricted Working Space, Add	45.57	
23 31 13 13-0376 LF 20" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
For 3" WG (Class B), Add	23.74	
For 4" Or 6" WG (Class A), Add	50.64	
For 10" WG (Class A), Add	72.79	
For Work In Restricted Working Space, Add	47.47	
23 31 13 13-0377 LF 20" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
For 3" WG (Class B), Add	24.69	
For 4" Or 6" WG (Class A), Add	52.66	
For 10" WG (Class A), Add	75.70	
For Work In Restricted Working Space, Add	49.37	
23 31 13 13-0378 LF 20" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
For 3" WG (Class B), Add	25.64	
For 4" Or 6" WG (Class A), Add	54.69	
For 10" WG (Class A), Add	78.61	
For Work In Restricted Working Space, Add	51.27	
23 31 13 13-0379 LF 20" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
For 3" WG (Class B), Add	26.58	
For 4" Or 6" WG (Class A), Add	56.71	
For 10" WG (Class A), Add	81.52	
For Work In Restricted Working Space, Add	53.17	
23 31 13 13-0380 LF 20" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
For 3" WG (Class B), Add	27.53	
For 4" Or 6" WG (Class A), Add	58.74	
For 10" WG (Class A), Add	84.43	
For Work In Restricted Working Space, Add	55.07	
23 31 13 13-0381 LF 20" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
For 3" WG (Class B), Add	28.48	
For 4" Or 6" WG (Class A), Add	60.76	
For 10" WG (Class A), Add	87.35	
For Work In Restricted Working Space, Add	56.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0382 LF 20" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0383 LF 20" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0384 LF 20" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0385 LF 20" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0386 LF 22" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	155.16	83.54
<i>For 3" WG (Class B), Add</i>	20.89	
<i>For 4" Or 6" WG (Class A), Add</i>	44.56	
<i>For 10" WG (Class A), Add</i>	64.05	
<i>For Work In Restricted Working Space, Add</i>	41.77	
23 31 13 13-0387 LF 22" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.21	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.58	
<i>For 10" WG (Class A), Add</i>	66.96	
<i>For Work In Restricted Working Space, Add</i>	43.67	
23 31 13 13-0388 LF 22" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
<i>For 3" WG (Class B), Add</i>	22.79	
<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
<i>For 10" WG (Class A), Add</i>	69.88	
<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0389 LF 22" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
<i>For 3" WG (Class B), Add</i>	23.74	
<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
<i>For 10" WG (Class A), Add</i>	72.79	
<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0390 LF 22" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
<i>For 3" WG (Class B), Add</i>	24.69	
<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
<i>For 10" WG (Class A), Add</i>	75.70	
<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0391 LF 22" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
<i>For 3" WG (Class B), Add</i>	25.64	
<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
<i>For 10" WG (Class A), Add</i>	78.61	
<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0392 LF 22" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0393 LF 22" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0394 LF 22" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0395 LF 22" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0396 LF 22" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0397 LF 22" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0398 LF 22" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0399	LF	22" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
		<i>For 3" WG (Class B), Add</i>	33.23	
		<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
		<i>For 10" WG (Class A), Add</i>	101.90	
		<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13 13-0400	LF	24" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	169.28	91.15
		<i>For 3" WG (Class B), Add</i>	22.79	
		<i>For 4" Or 6" WG (Class A), Add</i>	48.61	
		<i>For 10" WG (Class A), Add</i>	69.88	
		<i>For Work In Restricted Working Space, Add</i>	45.57	
23 31 13 13-0401	LF	24" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	176.33	94.94
		<i>For 3" WG (Class B), Add</i>	23.74	
		<i>For 4" Or 6" WG (Class A), Add</i>	50.64	
		<i>For 10" WG (Class A), Add</i>	72.79	
		<i>For Work In Restricted Working Space, Add</i>	47.47	
23 31 13 13-0402	LF	24" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
		<i>For 3" WG (Class B), Add</i>	24.69	
		<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
		<i>For 10" WG (Class A), Add</i>	75.70	
		<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0403	LF	24" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
		<i>For 3" WG (Class B), Add</i>	25.64	
		<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
		<i>For 10" WG (Class A), Add</i>	78.61	
		<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0404	LF	24" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
		<i>For 3" WG (Class B), Add</i>	26.58	
		<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
		<i>For 10" WG (Class A), Add</i>	81.52	
		<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0405	LF	24" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
		<i>For 3" WG (Class B), Add</i>	27.53	
		<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
		<i>For 10" WG (Class A), Add</i>	84.43	
		<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0406	LF	24" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
		<i>For 3" WG (Class B), Add</i>	28.48	
		<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
		<i>For 10" WG (Class A), Add</i>	87.35	
		<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0407	LF	24" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
		<i>For 3" WG (Class B), Add</i>	29.43	
		<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
		<i>For 10" WG (Class A), Add</i>	90.26	
		<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0408	LF	24" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
		<i>For 3" WG (Class B), Add</i>	30.38	
		<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
		<i>For 10" WG (Class A), Add</i>	93.17	
		<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0409	LF	24" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
		<i>For 3" WG (Class B), Add</i>	31.33	
		<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
		<i>For 10" WG (Class A), Add</i>	96.08	
		<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0410	LF	24" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
		<i>For 3" WG (Class B), Add</i>	32.28	
		<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
		<i>For 10" WG (Class A), Add</i>	98.99	
		<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0411	LF	24" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
		<i>For 3" WG (Class B), Add</i>	33.23	
		<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
		<i>For 10" WG (Class A), Add</i>	101.90	
		<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13 13-0412	LF	24" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
		<i>For 3" WG (Class B), Add</i>	34.18	
		<i>For 4" Or 6" WG (Class A), Add</i>	72.91	
		<i>For 10" WG (Class A), Add</i>	104.81	
		<i>For Work In Restricted Working Space, Add</i>	68.36	
23 31 13 13-0413	LF	26" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.38	98.74
		<i>For 3" WG (Class B), Add</i>	24.69	
		<i>For 4" Or 6" WG (Class A), Add</i>	52.66	
		<i>For 10" WG (Class A), Add</i>	75.70	
		<i>For Work In Restricted Working Space, Add</i>	49.37	
23 31 13 13-0414	LF	26" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	190.44	102.54
		<i>For 3" WG (Class B), Add</i>	25.64	
		<i>For 4" Or 6" WG (Class A), Add</i>	54.69	
		<i>For 10" WG (Class A), Add</i>	78.61	
		<i>For Work In Restricted Working Space, Add</i>	51.27	
23 31 13 13-0415	LF	26" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
		<i>For 3" WG (Class B), Add</i>	26.58	
		<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
		<i>For 10" WG (Class A), Add</i>	81.52	
		<i>For Work In Restricted Working Space, Add</i>	53.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0416 LF 26" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0417 LF 26" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0418 LF 26" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0419 LF 26" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0420 LF 26" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0421 LF 26" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0422 LF 26" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
<i>For 3" WG (Class B), Add</i>	33.23	
<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
<i>For 10" WG (Class A), Add</i>	101.90	
<i>For Work In Restricted Working Space, Add</i>	66.46	
23 31 13 13-0423 LF 26" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
<i>For 3" WG (Class B), Add</i>	34.18	
<i>For 4" Or 6" WG (Class A), Add</i>	72.91	
<i>For 10" WG (Class A), Add</i>	104.81	
<i>For Work In Restricted Working Space, Add</i>	68.36	
23 31 13 13-0424 LF 26" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
<i>For 3" WG (Class B), Add</i>	35.13	
<i>For 4" Or 6" WG (Class A), Add</i>	74.94	
<i>For 10" WG (Class A), Add</i>	107.73	
<i>For Work In Restricted Working Space, Add</i>	70.26	
23 31 13 13-0425 LF 28" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	197.48	106.33
<i>For 3" WG (Class B), Add</i>	26.58	
<i>For 4" Or 6" WG (Class A), Add</i>	56.71	
<i>For 10" WG (Class A), Add</i>	81.52	
<i>For Work In Restricted Working Space, Add</i>	53.17	
23 31 13 13-0426 LF 28" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	204.54	110.13
<i>For 3" WG (Class B), Add</i>	27.53	
<i>For 4" Or 6" WG (Class A), Add</i>	58.74	
<i>For 10" WG (Class A), Add</i>	84.43	
<i>For Work In Restricted Working Space, Add</i>	55.07	
23 31 13 13-0427 LF 28" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
<i>For 3" WG (Class B), Add</i>	28.48	
<i>For 4" Or 6" WG (Class A), Add</i>	60.76	
<i>For 10" WG (Class A), Add</i>	87.35	
<i>For Work In Restricted Working Space, Add</i>	56.97	
23 31 13 13-0428 LF 28" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
<i>For 3" WG (Class B), Add</i>	29.43	
<i>For 4" Or 6" WG (Class A), Add</i>	62.79	
<i>For 10" WG (Class A), Add</i>	90.26	
<i>For Work In Restricted Working Space, Add</i>	58.86	
23 31 13 13-0429 LF 28" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
<i>For 3" WG (Class B), Add</i>	30.38	
<i>For 4" Or 6" WG (Class A), Add</i>	64.81	
<i>For 10" WG (Class A), Add</i>	93.17	
<i>For Work In Restricted Working Space, Add</i>	60.76	
23 31 13 13-0430 LF 28" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
<i>For 3" WG (Class B), Add</i>	31.33	
<i>For 4" Or 6" WG (Class A), Add</i>	66.84	
<i>For 10" WG (Class A), Add</i>	96.08	
<i>For Work In Restricted Working Space, Add</i>	62.66	
23 31 13 13-0431 LF 28" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
<i>For 3" WG (Class B), Add</i>	32.28	
<i>For 4" Or 6" WG (Class A), Add</i>	68.86	
<i>For 10" WG (Class A), Add</i>	98.99	
<i>For Work In Restricted Working Space, Add</i>	64.56	
23 31 13 13-0432 LF 28" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
<i>For 3" WG (Class B), Add</i>	33.23	
<i>For 4" Or 6" WG (Class A), Add</i>	70.89	
<i>For 10" WG (Class A), Add</i>	101.90	
<i>For Work In Restricted Working Space, Add</i>	66.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0433 LF 28" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	
23 31 13 13-0434 LF 28" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0435 LF 28" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0436 LF 30" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	211.60	113.93
For 3" WG (Class B), Add	28.48	
For 4" Or 6" WG (Class A), Add	60.76	
For 10" WG (Class A), Add	87.35	
For Work In Restricted Working Space, Add	56.97	
23 31 13 13-0437 LF 30" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	218.64	117.72
For 3" WG (Class B), Add	29.43	
For 4" Or 6" WG (Class A), Add	62.79	
For 10" WG (Class A), Add	90.26	
For Work In Restricted Working Space, Add	58.86	
23 31 13 13-0438 LF 30" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
For 3" WG (Class B), Add	30.38	
For 4" Or 6" WG (Class A), Add	64.81	
For 10" WG (Class A), Add	93.17	
For Work In Restricted Working Space, Add	60.76	
23 31 13 13-0439 LF 30" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
For 3" WG (Class B), Add	31.33	
For 4" Or 6" WG (Class A), Add	66.84	
For 10" WG (Class A), Add	96.08	
For Work In Restricted Working Space, Add	62.66	
23 31 13 13-0440 LF 30" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
For 3" WG (Class B), Add	32.28	
For 4" Or 6" WG (Class A), Add	68.86	
For 10" WG (Class A), Add	98.99	
For Work In Restricted Working Space, Add	64.56	
23 31 13 13-0441 LF 30" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
For 3" WG (Class B), Add	33.23	
For 4" Or 6" WG (Class A), Add	70.89	
For 10" WG (Class A), Add	101.90	
For Work In Restricted Working Space, Add	66.46	
23 31 13 13-0442 LF 30" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	253.90	136.72
For 3" WG (Class B), Add	34.18	
For 4" Or 6" WG (Class A), Add	72.91	
For 10" WG (Class A), Add	104.81	
For Work In Restricted Working Space, Add	68.36	
23 31 13 13-0443 LF 30" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	260.96	140.52
For 3" WG (Class B), Add	35.13	
For 4" Or 6" WG (Class A), Add	74.94	
For 10" WG (Class A), Add	107.73	
For Work In Restricted Working Space, Add	70.26	
23 31 13 13-0444 LF 30" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0445 LF 30" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0446 LF 32" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	225.70	121.53
For 3" WG (Class B), Add	30.38	
For 4" Or 6" WG (Class A), Add	64.81	
For 10" WG (Class A), Add	93.17	
For Work In Restricted Working Space, Add	60.76	
23 31 13 13-0447 LF 32" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.75	125.33
For 3" WG (Class B), Add	31.33	
For 4" Or 6" WG (Class A), Add	66.84	
For 10" WG (Class A), Add	96.08	
For Work In Restricted Working Space, Add	62.66	
23 31 13 13-0448 LF 32" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	239.80	129.12
For 3" WG (Class B), Add	32.28	
For 4" Or 6" WG (Class A), Add	68.86	
For 10" WG (Class A), Add	98.99	
For Work In Restricted Working Space, Add	64.56	
23 31 13 13-0449 LF 32" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	246.85	132.91
For 3" WG (Class B), Add	33.23	
For 4" Or 6" WG (Class A), Add	70.89	
For 10" WG (Class A), Add	101.90	
For Work In Restricted Working Space, Add	66.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0450 LF 32" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.90 34.18 72.91 104.81 68.36	136.72
23 31 13 13-0451 LF 32" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	260.96 35.13 74.94 107.73 70.26	140.52
23 31 13 13-0452 LF 32" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	268.02 36.08 76.97 110.64 72.16	144.31
23 31 13 13-0453 LF 32" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	275.06 37.03 78.99 113.55 74.05	148.11
23 31 13 13-0454 LF 32" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	282.13 37.98 81.02 116.46 75.95	151.91
23 31 13 13-0455 LF 34" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	239.80 32.28 68.86 98.99 64.56	129.12
23 31 13 13-0456 LF 34" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	246.85 33.23 70.89 101.90 66.46	132.91
23 31 13 13-0457 LF 34" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.90 34.18 72.91 104.81 68.36	136.72
23 31 13 13-0458 LF 34" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	260.96 35.13 74.94 107.73 70.26	140.52
23 31 13 13-0459 LF 34" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	268.02 36.08 76.97 110.64 72.16	144.31
23 31 13 13-0460 LF 34" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	275.06 37.03 78.99 113.55 74.05	148.11
23 31 13 13-0461 LF 34" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	282.13 37.98 81.02 116.46 75.95	151.91
23 31 13 13-0462 LF 34" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	289.18 38.93 83.04 119.37 77.85	155.70
23 31 13 13-0463 LF 36" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.90 34.18 72.91 104.81 68.36	136.72
23 31 13 13-0464 LF 36" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	260.96 35.13 74.94 107.73 70.26	140.52
23 31 13 13-0465 LF 36" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	268.02 36.08 76.97 110.64 72.16	144.31
23 31 13 13-0466 LF 36" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	275.06 37.03 78.99 113.55 74.05	148.11

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0467 LF 36" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0468 LF 36" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0469 LF 36" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
For 3" WG (Class B), Add	39.87	
For 4" Or 6" WG (Class A), Add	85.07	
For 10" WG (Class A), Add	122.28	
For Work In Restricted Working Space, Add	79.75	
23 31 13 13-0470 LF 38" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	268.02	144.31
For 3" WG (Class B), Add	36.08	
For 4" Or 6" WG (Class A), Add	76.97	
For 10" WG (Class A), Add	110.64	
For Work In Restricted Working Space, Add	72.16	
23 31 13 13-0471 LF 38" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	275.06	148.11
For 3" WG (Class B), Add	37.03	
For 4" Or 6" WG (Class A), Add	78.99	
For 10" WG (Class A), Add	113.55	
For Work In Restricted Working Space, Add	74.05	
23 31 13 13-0472 LF 38" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0473 LF 38" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0474 LF 38" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
For 3" WG (Class B), Add	39.87	
For 4" Or 6" WG (Class A), Add	85.07	
For 10" WG (Class A), Add	122.28	
For Work In Restricted Working Space, Add	79.75	
23 31 13 13-0475 LF 38" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
For 3" WG (Class B), Add	40.83	
For 4" Or 6" WG (Class A), Add	87.09	
For 10" WG (Class A), Add	125.20	
For Work In Restricted Working Space, Add	81.65	
23 31 13 13-0476 LF 38" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
For 3" WG (Class B), Add	41.78	
For 4" Or 6" WG (Class A), Add	89.12	
For 10" WG (Class A), Add	128.11	
For Work In Restricted Working Space, Add	83.55	
23 31 13 13-0477 LF 40" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.13	151.91
For 3" WG (Class B), Add	37.98	
For 4" Or 6" WG (Class A), Add	81.02	
For 10" WG (Class A), Add	116.46	
For Work In Restricted Working Space, Add	75.95	
23 31 13 13-0478 LF 40" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	289.18	155.70
For 3" WG (Class B), Add	38.93	
For 4" Or 6" WG (Class A), Add	83.04	
For 10" WG (Class A), Add	119.37	
For Work In Restricted Working Space, Add	77.85	
23 31 13 13-0479 LF 40" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
For 3" WG (Class B), Add	39.87	
For 4" Or 6" WG (Class A), Add	85.07	
For 10" WG (Class A), Add	122.28	
For Work In Restricted Working Space, Add	79.75	
23 31 13 13-0480 LF 40" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
For 3" WG (Class B), Add	40.83	
For 4" Or 6" WG (Class A), Add	87.09	
For 10" WG (Class A), Add	125.20	
For Work In Restricted Working Space, Add	81.65	
23 31 13 13-0481 LF 40" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
For 3" WG (Class B), Add	41.78	
For 4" Or 6" WG (Class A), Add	89.12	
For 10" WG (Class A), Add	128.11	
For Work In Restricted Working Space, Add	83.55	
23 31 13 13-0482 LF 40" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
For 3" WG (Class B), Add	42.72	
For 4" Or 6" WG (Class A), Add	91.15	
For 10" WG (Class A), Add	131.02	
For Work In Restricted Working Space, Add	85.45	
23 31 13 13-0483 LF 40" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
For 3" WG (Class B), Add	43.67	
For 4" Or 6" WG (Class A), Add	93.17	
For 10" WG (Class A), Add	133.93	
For Work In Restricted Working Space, Add	87.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0484 LF 40" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0485 LF 42" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	296.22	159.50
<i>For 3" WG (Class B), Add</i>	39.87	
<i>For 4" Or 6" WG (Class A), Add</i>	85.07	
<i>For 10" WG (Class A), Add</i>	122.28	
<i>For Work In Restricted Working Space, Add</i>	79.75	
23 31 13 13-0486 LF 42" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	303.29	163.30
<i>For 3" WG (Class B), Add</i>	40.83	
<i>For 4" Or 6" WG (Class A), Add</i>	87.09	
<i>For 10" WG (Class A), Add</i>	125.20	
<i>For Work In Restricted Working Space, Add</i>	61.65	
23 31 13 13-0487 LF 42" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
<i>For 3" WG (Class B), Add</i>	41.78	
<i>For 4" Or 6" WG (Class A), Add</i>	89.12	
<i>For 10" WG (Class A), Add</i>	128.11	
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 31 13 13-0488 LF 42" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
<i>For 3" WG (Class B), Add</i>	42.72	
<i>For 4" Or 6" WG (Class A), Add</i>	91.15	
<i>For 10" WG (Class A), Add</i>	131.02	
<i>For Work In Restricted Working Space, Add</i>	85.45	
23 31 13 13-0489 LF 42" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
<i>For 3" WG (Class B), Add</i>	43.67	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.93	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0490 LF 42" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0491 LF 42" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
<i>For 3" WG (Class B), Add</i>	45.57	
<i>For 4" Or 6" WG (Class A), Add</i>	97.22	
<i>For 10" WG (Class A), Add</i>	139.75	
<i>For Work In Restricted Working Space, Add</i>	91.14	
23 31 13 13-0492 LF 44" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	310.34	167.09
<i>For 3" WG (Class B), Add</i>	41.78	
<i>For 4" Or 6" WG (Class A), Add</i>	89.12	
<i>For 10" WG (Class A), Add</i>	128.11	
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 31 13 13-0493 LF 44" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	317.39	170.90
<i>For 3" WG (Class B), Add</i>	42.72	
<i>For 4" Or 6" WG (Class A), Add</i>	91.15	
<i>For 10" WG (Class A), Add</i>	131.02	
<i>For Work In Restricted Working Space, Add</i>	85.45	
23 31 13 13-0494 LF 44" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
<i>For 3" WG (Class B), Add</i>	43.67	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.93	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0495 LF 44" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0496 LF 44" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
<i>For 3" WG (Class B), Add</i>	45.57	
<i>For 4" Or 6" WG (Class A), Add</i>	97.22	
<i>For 10" WG (Class A), Add</i>	139.75	
<i>For Work In Restricted Working Space, Add</i>	91.14	
23 31 13 13-0497 LF 44" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
<i>For 3" WG (Class B), Add</i>	46.52	
<i>For 4" Or 6" WG (Class A), Add</i>	99.24	
<i>For 10" WG (Class A), Add</i>	142.66	
<i>For Work In Restricted Working Space, Add</i>	93.04	
23 31 13 13-0498 LF 46" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.44	174.69
<i>For 3" WG (Class B), Add</i>	43.67	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.93	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0499 LF 46" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	331.49	178.48
<i>For 3" WG (Class B), Add</i>	44.62	
<i>For 4" Or 6" WG (Class A), Add</i>	95.19	
<i>For 10" WG (Class A), Add</i>	136.84	
<i>For Work In Restricted Working Space, Add</i>	89.24	
23 31 13 13-0500 LF 46" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
<i>For 3" WG (Class B), Add</i>	45.57	
<i>For 4" Or 6" WG (Class A), Add</i>	97.22	
<i>For 10" WG (Class A), Add</i>	139.75	
<i>For Work In Restricted Working Space, Add</i>	91.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0501 LF 46" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
For 3" WG (Class B), Add	46.52	
For 4" Or 6" WG (Class A), Add	99.24	
For 10" WG (Class A), Add	142.66	
For Work In Restricted Working Space, Add	93.04	
23 31 13 13-0502 LF 46" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0503 LF 48" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	338.55	182.28
For 3" WG (Class B), Add	45.57	
For 4" Or 6" WG (Class A), Add	97.22	
For 10" WG (Class A), Add	139.75	
For Work In Restricted Working Space, Add	91.14	
23 31 13 13-0504 LF 48" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	345.59	186.09
For 3" WG (Class B), Add	46.52	
For 4" Or 6" WG (Class A), Add	99.24	
For 10" WG (Class A), Add	142.66	
For Work In Restricted Working Space, Add	93.04	
23 31 13 13-0505 LF 48" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0506 LF 48" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	359.71	193.68
For 3" WG (Class B), Add	48.42	
For 4" Or 6" WG (Class A), Add	103.30	
For 10" WG (Class A), Add	148.49	
For Work In Restricted Working Space, Add	96.84	
23 31 13 13-0507 LF 50" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	352.65	189.89
For 3" WG (Class B), Add	47.47	
For 4" Or 6" WG (Class A), Add	101.27	
For 10" WG (Class A), Add	145.58	
For Work In Restricted Working Space, Add	94.94	
23 31 13 13-0508 LF 50" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	359.71	193.68
For 3" WG (Class B), Add	48.42	
For 4" Or 6" WG (Class A), Add	103.30	
For 10" WG (Class A), Add	148.49	
For Work In Restricted Working Space, Add	96.84	
23 31 13 13-0509 LF 50" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	366.76	197.47
For 3" WG (Class B), Add	49.37	
For 4" Or 6" WG (Class A), Add	105.32	
For 10" WG (Class A), Add	151.40	
For Work In Restricted Working Space, Add	98.74	
23 31 13 13-0510 LF 52" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	366.76	197.47
For 3" WG (Class B), Add	49.37	
For 4" Or 6" WG (Class A), Add	105.32	
For 10" WG (Class A), Add	151.40	
For Work In Restricted Working Space, Add	98.74	
23 31 13 13-0511 LF 52" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.80	201.28
For 3" WG (Class B), Add	50.32	
For 4" Or 6" WG (Class A), Add	107.34	
For 10" WG (Class A), Add	154.31	
For Work In Restricted Working Space, Add	100.64	
23 31 13 13-0512 LF 54" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork.....	380.86	205.07
For 3" WG (Class B), Add	51.27	
For 4" Or 6" WG (Class A), Add	109.37	
For 10" WG (Class A), Add	157.22	
For Work In Restricted Working Space, Add	102.53	
23 31 13 13-0513 20 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0514 LF 4" x 4", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	33.22	17.89
For 3" WG (Class B), Add	4.47	
For 4" Or 6" WG (Class A), Add	9.54	
For 10" WG (Class A), Add	13.72	
For Work In Restricted Working Space, Add	8.95	
23 31 13 13-0515 LF 4" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	41.54	22.36
For 3" WG (Class B), Add	5.59	
For 4" Or 6" WG (Class A), Add	11.93	
For 10" WG (Class A), Add	17.15	
For Work In Restricted Working Space, Add	11.18	
23 31 13 13-0516 LF 4" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.85	26.84
For 3" WG (Class B), Add	6.71	
For 4" Or 6" WG (Class A), Add	14.31	
For 10" WG (Class A), Add	20.58	
For Work In Restricted Working Space, Add	13.42	
23 31 13 13-0517 LF 4" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.14	31.30
For 3" WG (Class B), Add	7.83	
For 4" Or 6" WG (Class A), Add	16.70	
For 10" WG (Class A), Add	24.00	
For Work In Restricted Working Space, Add	15.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0518 LF 4" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
<i>For 3" WG (Class B), Add</i>	8.95	
<i>For 4" Or 6" WG (Class A), Add</i>	19.08	
<i>For 10" WG (Class A), Add</i>	27.43	
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 31 13 13-0519 LF 4" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
<i>For 3" WG (Class B), Add</i>	10.06	
<i>For 4" Or 6" WG (Class A), Add</i>	21.47	
<i>For 10" WG (Class A), Add</i>	30.86	
<i>For Work In Restricted Working Space, Add</i>	20.13	
23 31 13 13-0520 LF 4" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
<i>For 3" WG (Class B), Add</i>	11.18	
<i>For 4" Or 6" WG (Class A), Add</i>	23.86	
<i>For 10" WG (Class A), Add</i>	34.30	
<i>For Work In Restricted Working Space, Add</i>	22.37	
23 31 13 13-0521 LF 6" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.85	26.84
<i>For 3" WG (Class B), Add</i>	6.71	
<i>For 4" Or 6" WG (Class A), Add</i>	14.31	
<i>For 10" WG (Class A), Add</i>	20.58	
<i>For Work In Restricted Working Space, Add</i>	13.42	
23 31 13 13-0522 LF 6" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	58.14	31.30
<i>For 3" WG (Class B), Add</i>	7.83	
<i>For 4" Or 6" WG (Class A), Add</i>	16.70	
<i>For 10" WG (Class A), Add</i>	24.00	
<i>For Work In Restricted Working Space, Add</i>	15.65	
23 31 13 13-0523 LF 6" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
<i>For 3" WG (Class B), Add</i>	8.95	
<i>For 4" Or 6" WG (Class A), Add</i>	19.08	
<i>For 10" WG (Class A), Add</i>	27.43	
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 31 13 13-0524 LF 6" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
<i>For 3" WG (Class B), Add</i>	10.06	
<i>For 4" Or 6" WG (Class A), Add</i>	21.47	
<i>For 10" WG (Class A), Add</i>	30.86	
<i>For Work In Restricted Working Space, Add</i>	20.13	
23 31 13 13-0525 LF 6" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
<i>For 3" WG (Class B), Add</i>	11.18	
<i>For 4" Or 6" WG (Class A), Add</i>	23.86	
<i>For 10" WG (Class A), Add</i>	34.30	
<i>For Work In Restricted Working Space, Add</i>	22.37	
23 31 13 13-0526 LF 6" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
<i>For 3" WG (Class B), Add</i>	12.30	
<i>For 4" Or 6" WG (Class A), Add</i>	26.24	
<i>For 10" WG (Class A), Add</i>	37.72	
<i>For Work In Restricted Working Space, Add</i>	24.60	
23 31 13 13-0527 LF 8" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	66.46	35.79
<i>For 3" WG (Class B), Add</i>	8.95	
<i>For 4" Or 6" WG (Class A), Add</i>	19.08	
<i>For 10" WG (Class A), Add</i>	27.43	
<i>For Work In Restricted Working Space, Add</i>	17.89	
23 31 13 13-0528 LF 8" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	74.77	40.25
<i>For 3" WG (Class B), Add</i>	10.06	
<i>For 4" Or 6" WG (Class A), Add</i>	21.47	
<i>For 10" WG (Class A), Add</i>	30.86	
<i>For Work In Restricted Working Space, Add</i>	20.13	
23 31 13 13-0529 LF 8" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
<i>For 3" WG (Class B), Add</i>	11.18	
<i>For 4" Or 6" WG (Class A), Add</i>	23.86	
<i>For 10" WG (Class A), Add</i>	34.30	
<i>For Work In Restricted Working Space, Add</i>	22.37	
23 31 13 13-0530 LF 8" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
<i>For 3" WG (Class B), Add</i>	12.30	
<i>For 4" Or 6" WG (Class A), Add</i>	26.24	
<i>For 10" WG (Class A), Add</i>	37.72	
<i>For Work In Restricted Working Space, Add</i>	24.60	
23 31 13 13-0531 LF 8" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
<i>For 3" WG (Class B), Add</i>	13.42	
<i>For 4" Or 6" WG (Class A), Add</i>	28.63	
<i>For 10" WG (Class A), Add</i>	41.15	
<i>For Work In Restricted Working Space, Add</i>	26.84	
23 31 13 13-0532 LF 8" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
<i>For 3" WG (Class B), Add</i>	14.54	
<i>For 4" Or 6" WG (Class A), Add</i>	31.01	
<i>For 10" WG (Class A), Add</i>	44.58	
<i>For Work In Restricted Working Space, Add</i>	29.07	
23 31 13 13-0533 LF 8" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
<i>For 3" WG (Class B), Add</i>	15.66	
<i>For 4" Or 6" WG (Class A), Add</i>	33.40	
<i>For 10" WG (Class A), Add</i>	48.01	
<i>For Work In Restricted Working Space, Add</i>	31.31	
23 31 13 13-0534 LF 8" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
<i>For 3" WG (Class B), Add</i>	16.77	
<i>For 4" Or 6" WG (Class A), Add</i>	35.78	
<i>For 10" WG (Class A), Add</i>	51.43	
<i>For Work In Restricted Working Space, Add</i>	33.54	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0535	LF 8" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
			For 3" WG (Class B), Add	17.89	
			For 4" Or 6" WG (Class A), Add	38.17	
			For 10" WG (Class A), Add	54.86	
			For Work In Restricted Working Space, Add	35.78	
23 31	13	13-0536	LF 10" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	83.08	44.73
			For 3" WG (Class B), Add	11.18	
			For 4" Or 6" WG (Class A), Add	23.86	
			For 10" WG (Class A), Add	34.30	
			For Work In Restricted Working Space, Add	22.37	
23 31	13	13-0537	LF 10" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	91.38	49.20
			For 3" WG (Class B), Add	12.30	
			For 4" Or 6" WG (Class A), Add	26.24	
			For 10" WG (Class A), Add	37.72	
			For Work In Restricted Working Space, Add	24.60	
23 31	13	13-0538	LF 10" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
			For 3" WG (Class B), Add	13.42	
			For 4" Or 6" WG (Class A), Add	28.63	
			For 10" WG (Class A), Add	41.15	
			For Work In Restricted Working Space, Add	26.84	
23 31	13	13-0539	LF 10" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
			For 3" WG (Class B), Add	14.54	
			For 4" Or 6" WG (Class A), Add	31.01	
			For 10" WG (Class A), Add	44.58	
			For Work In Restricted Working Space, Add	29.07	
23 31	13	13-0540	LF 10" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
			For 3" WG (Class B), Add	15.66	
			For 4" Or 6" WG (Class A), Add	33.40	
			For 10" WG (Class A), Add	48.01	
			For Work In Restricted Working Space, Add	31.31	
23 31	13	13-0541	LF 10" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
			For 3" WG (Class B), Add	16.77	
			For 4" Or 6" WG (Class A), Add	35.78	
			For 10" WG (Class A), Add	51.43	
			For Work In Restricted Working Space, Add	33.54	
23 31	13	13-0542	LF 10" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
			For 3" WG (Class B), Add	17.89	
			For 4" Or 6" WG (Class A), Add	38.17	
			For 10" WG (Class A), Add	54.86	
			For Work In Restricted Working Space, Add	35.78	
23 31	13	13-0543	LF 10" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
			For 3" WG (Class B), Add	19.01	
			For 4" Or 6" WG (Class A), Add	40.56	
			For 10" WG (Class A), Add	58.30	
			For Work In Restricted Working Space, Add	38.02	
23 31	13	13-0544	LF 10" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
			For 3" WG (Class B), Add	20.13	
			For 4" Or 6" WG (Class A), Add	42.94	
			For 10" WG (Class A), Add	61.73	
			For Work In Restricted Working Space, Add	40.26	
23 31	13	13-0545	LF 10" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
			For 3" WG (Class B), Add	21.25	
			For 4" Or 6" WG (Class A), Add	45.33	
			For 10" WG (Class A), Add	65.16	
			For Work In Restricted Working Space, Add	42.50	
23 31	13	13-0546	LF 10" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
			For 3" WG (Class B), Add	22.36	
			For 4" Or 6" WG (Class A), Add	47.71	
			For 10" WG (Class A), Add	68.58	
			For Work In Restricted Working Space, Add	44.73	
23 31	13	13-0547	LF 10" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
			For 3" WG (Class B), Add	23.48	
			For 4" Or 6" WG (Class A), Add	50.10	
			For 10" WG (Class A), Add	72.01	
			For Work In Restricted Working Space, Add	46.97	
23 31	13	13-0548	LF 12" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	99.68	53.68
			For 3" WG (Class B), Add	13.42	
			For 4" Or 6" WG (Class A), Add	28.63	
			For 10" WG (Class A), Add	41.15	
			For Work In Restricted Working Space, Add	26.84	
23 31	13	13-0549	LF 12" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	107.99	58.14
			For 3" WG (Class B), Add	14.54	
			For 4" Or 6" WG (Class A), Add	31.01	
			For 10" WG (Class A), Add	44.58	
			For Work In Restricted Working Space, Add	29.07	
23 31	13	13-0550	LF 12" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
			For 3" WG (Class B), Add	15.66	
			For 4" Or 6" WG (Class A), Add	33.40	
			For 10" WG (Class A), Add	48.01	
			For Work In Restricted Working Space, Add	31.31	
23 31	13	13-0551	LF 12" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
			For 3" WG (Class B), Add	16.77	
			For 4" Or 6" WG (Class A), Add	35.78	
			For 10" WG (Class A), Add	51.43	
			For Work In Restricted Working Space, Add	33.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0552 LF 12" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
<i>For 3" WG (Class B), Add</i>	17.89	
<i>For 4" Or 6" WG (Class A), Add</i>	38.17	
<i>For 10" WG (Class A), Add</i>	54.86	
<i>For Work In Restricted Working Space, Add</i>	35.78	
23 31 13 13-0553 LF 12" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
<i>For 3" WG (Class B), Add</i>	19.01	
<i>For 4" Or 6" WG (Class A), Add</i>	40.56	
<i>For 10" WG (Class A), Add</i>	58.30	
<i>For Work In Restricted Working Space, Add</i>	38.02	
23 31 13 13-0554 LF 12" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0555 LF 12" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0556 LF 12" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0557 LF 12" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0558 LF 12" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0559 LF 12" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31 13 13-0560 LF 12" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0561 LF 14" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	116.31	62.62
<i>For 3" WG (Class B), Add</i>	15.66	
<i>For 4" Or 6" WG (Class A), Add</i>	33.40	
<i>For 10" WG (Class A), Add</i>	48.01	
<i>For Work In Restricted Working Space, Add</i>	31.31	
23 31 13 13-0562 LF 14" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	124.59	67.09
<i>For 3" WG (Class B), Add</i>	16.77	
<i>For 4" Or 6" WG (Class A), Add</i>	35.78	
<i>For 10" WG (Class A), Add</i>	51.43	
<i>For Work In Restricted Working Space, Add</i>	33.54	
23 31 13 13-0563 LF 14" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
<i>For 3" WG (Class B), Add</i>	17.89	
<i>For 4" Or 6" WG (Class A), Add</i>	38.17	
<i>For 10" WG (Class A), Add</i>	54.86	
<i>For Work In Restricted Working Space, Add</i>	35.78	
23 31 13 13-0564 LF 14" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
<i>For 3" WG (Class B), Add</i>	19.01	
<i>For 4" Or 6" WG (Class A), Add</i>	40.56	
<i>For 10" WG (Class A), Add</i>	58.30	
<i>For Work In Restricted Working Space, Add</i>	38.02	
23 31 13 13-0565 LF 14" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0566 LF 14" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0567 LF 14" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0568 LF 14" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0569	LF 14" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
			<i>For 3" WG (Class B), Add</i>	24.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
			<i>For 10" WG (Class A), Add</i>	75.44	
			<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31	13	13-0570	LF 14" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
			<i>For 3" WG (Class B), Add</i>	25.72	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
			<i>For 10" WG (Class A), Add</i>	78.87	
			<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31	13	13-0571	LF 14" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
			<i>For 3" WG (Class B), Add</i>	26.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
			<i>For 10" WG (Class A), Add</i>	82.30	
			<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31	13	13-0572	LF 14" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
			<i>For 3" WG (Class B), Add</i>	27.96	
			<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
			<i>For 10" WG (Class A), Add</i>	85.73	
			<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31	13	13-0573	LF 16" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	132.91	71.56
			<i>For 3" WG (Class B), Add</i>	17.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.17	
			<i>For 10" WG (Class A), Add</i>	54.86	
			<i>For Work In Restricted Working Space, Add</i>	35.78	
23 31	13	13-0574	LF 16" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	141.24	76.04
			<i>For 3" WG (Class B), Add</i>	19.01	
			<i>For 4" Or 6" WG (Class A), Add</i>	40.56	
			<i>For 10" WG (Class A), Add</i>	58.30	
			<i>For Work In Restricted Working Space, Add</i>	38.02	
23 31	13	13-0575	LF 16" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
			<i>For 3" WG (Class B), Add</i>	20.13	
			<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
			<i>For 10" WG (Class A), Add</i>	61.73	
			<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31	13	13-0576	LF 16" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
			<i>For 3" WG (Class B), Add</i>	21.25	
			<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
			<i>For 10" WG (Class A), Add</i>	65.16	
			<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31	13	13-0577	LF 16" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
			<i>For 3" WG (Class B), Add</i>	22.36	
			<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
			<i>For 10" WG (Class A), Add</i>	68.58	
			<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31	13	13-0578	LF 16" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
			<i>For 3" WG (Class B), Add</i>	23.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
			<i>For 10" WG (Class A), Add</i>	72.01	
			<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31	13	13-0579	LF 16" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
			<i>For 3" WG (Class B), Add</i>	24.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
			<i>For 10" WG (Class A), Add</i>	75.44	
			<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31	13	13-0580	LF 16" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
			<i>For 3" WG (Class B), Add</i>	25.72	
			<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
			<i>For 10" WG (Class A), Add</i>	78.87	
			<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31	13	13-0581	LF 16" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
			<i>For 3" WG (Class B), Add</i>	26.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
			<i>For 10" WG (Class A), Add</i>	82.30	
			<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31	13	13-0582	LF 16" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
			<i>For 3" WG (Class B), Add</i>	27.96	
			<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
			<i>For 10" WG (Class A), Add</i>	85.73	
			<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31	13	13-0583	LF 16" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
			<i>For 3" WG (Class B), Add</i>	29.07	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
			<i>For 10" WG (Class A), Add</i>	89.16	
			<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31	13	13-0584	LF 16" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
			<i>For 3" WG (Class B), Add</i>	30.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
			<i>For 10" WG (Class A), Add</i>	92.59	
			<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31	13	13-0585	LF 16" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
			<i>For 3" WG (Class B), Add</i>	31.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
			<i>For 10" WG (Class A), Add</i>	96.02	
			<i>For Work In Restricted Working Space, Add</i>	62.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0586 LF 16" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0587 LF 16" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0588 LF 18" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	149.53	80.51
<i>For 3" WG (Class B), Add</i>	20.13	
<i>For 4" Or 6" WG (Class A), Add</i>	42.94	
<i>For 10" WG (Class A), Add</i>	61.73	
<i>For Work In Restricted Working Space, Add</i>	40.26	
23 31 13 13-0589 LF 18" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	157.85	84.98
<i>For 3" WG (Class B), Add</i>	21.25	
<i>For 4" Or 6" WG (Class A), Add</i>	45.33	
<i>For 10" WG (Class A), Add</i>	65.16	
<i>For Work In Restricted Working Space, Add</i>	42.50	
23 31 13 13-0590 LF 18" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
<i>For 3" WG (Class B), Add</i>	22.36	
<i>For 4" Or 6" WG (Class A), Add</i>	47.71	
<i>For 10" WG (Class A), Add</i>	68.58	
<i>For Work In Restricted Working Space, Add</i>	44.73	
23 31 13 13-0591 LF 18" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.10	
<i>For 10" WG (Class A), Add</i>	72.01	
<i>For Work In Restricted Working Space, Add</i>	46.97	
23 31 13 13-0592 LF 18" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
<i>For 3" WG (Class B), Add</i>	24.60	
<i>For 4" Or 6" WG (Class A), Add</i>	52.48	
<i>For 10" WG (Class A), Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	49.20	
23 31 13 13-0593 LF 18" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
<i>For 3" WG (Class B), Add</i>	25.72	
<i>For 4" Or 6" WG (Class A), Add</i>	54.87	
<i>For 10" WG (Class A), Add</i>	78.87	
<i>For Work In Restricted Working Space, Add</i>	51.44	
23 31 13 13-0594 LF 18" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0595 LF 18" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
<i>For 3" WG (Class B), Add</i>	27.96	
<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
<i>For 10" WG (Class A), Add</i>	85.73	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0596 LF 18" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0597 LF 18" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0598 LF 18" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0599 LF 18" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0600 LF 18" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0601 LF 18" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0602 LF 18" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0603 LF 20" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	166.13	89.46
For 3" WG (Class B), Add	22.36	
For 4" Or 6" WG (Class A), Add	47.71	
For 10" WG (Class A), Add	68.58	
For Work In Restricted Working Space, Add	44.73	
23 31 13 13-0604 LF 20" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	174.45	93.93
For 3" WG (Class B), Add	23.48	
For 4" Or 6" WG (Class A), Add	50.10	
For 10" WG (Class A), Add	72.01	
For Work In Restricted Working Space, Add	46.97	
23 31 13 13-0605 LF 20" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
For 3" WG (Class B), Add	24.60	
For 4" Or 6" WG (Class A), Add	52.48	
For 10" WG (Class A), Add	75.44	
For Work In Restricted Working Space, Add	49.20	
23 31 13 13-0606 LF 20" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
For 3" WG (Class B), Add	25.72	
For 4" Or 6" WG (Class A), Add	54.87	
For 10" WG (Class A), Add	78.87	
For Work In Restricted Working Space, Add	51.44	
23 31 13 13-0607 LF 20" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
For 3" WG (Class B), Add	26.84	
For 4" Or 6" WG (Class A), Add	57.25	
For 10" WG (Class A), Add	82.30	
For Work In Restricted Working Space, Add	53.68	
23 31 13 13-0608 LF 20" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
For 3" WG (Class B), Add	27.96	
For 4" Or 6" WG (Class A), Add	59.64	
For 10" WG (Class A), Add	85.73	
For Work In Restricted Working Space, Add	55.91	
23 31 13 13-0609 LF 20" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
For 3" WG (Class B), Add	29.07	
For 4" Or 6" WG (Class A), Add	62.03	
For 10" WG (Class A), Add	89.16	
For Work In Restricted Working Space, Add	58.15	
23 31 13 13-0610 LF 20" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
For 3" WG (Class B), Add	30.19	
For 4" Or 6" WG (Class A), Add	64.41	
For 10" WG (Class A), Add	92.59	
For Work In Restricted Working Space, Add	60.38	
23 31 13 13-0611 LF 20" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
For 3" WG (Class B), Add	31.31	
For 4" Or 6" WG (Class A), Add	66.79	
For 10" WG (Class A), Add	96.02	
For Work In Restricted Working Space, Add	62.62	
23 31 13 13-0612 LF 20" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
For 3" WG (Class B), Add	32.43	
For 4" Or 6" WG (Class A), Add	69.18	
For 10" WG (Class A), Add	99.44	
For Work In Restricted Working Space, Add	64.85	
23 31 13 13-0613 LF 20" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
For 3" WG (Class B), Add	33.55	
For 4" Or 6" WG (Class A), Add	71.57	
For 10" WG (Class A), Add	102.88	
For Work In Restricted Working Space, Add	67.10	
23 31 13 13-0614 LF 20" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
For 3" WG (Class B), Add	34.67	
For 4" Or 6" WG (Class A), Add	73.95	
For 10" WG (Class A), Add	106.31	
For Work In Restricted Working Space, Add	69.33	
23 31 13 13-0615 LF 20" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
For 3" WG (Class B), Add	35.78	
For 4" Or 6" WG (Class A), Add	76.34	
For 10" WG (Class A), Add	109.74	
For Work In Restricted Working Space, Add	71.57	
23 31 13 13-0616 LF 20" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
For 3" WG (Class B), Add	36.90	
For 4" Or 6" WG (Class A), Add	78.72	
For 10" WG (Class A), Add	113.16	
For Work In Restricted Working Space, Add	73.80	
23 31 13 13-0617 LF 20" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
For 3" WG (Class B), Add	38.02	
For 4" Or 6" WG (Class A), Add	81.11	
For 10" WG (Class A), Add	116.59	
For Work In Restricted Working Space, Add	76.04	
23 31 13 13-0618 LF 22" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	182.76	98.40
For 3" WG (Class B), Add	24.60	
For 4" Or 6" WG (Class A), Add	52.48	
For 10" WG (Class A), Add	75.44	
For Work In Restricted Working Space, Add	49.20	
23 31 13 13-0619 LF 22" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	191.06	102.88
For 3" WG (Class B), Add	25.72	
For 4" Or 6" WG (Class A), Add	54.87	
For 10" WG (Class A), Add	78.87	
For Work In Restricted Working Space, Add	51.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0620 LF 22" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0621 LF 22" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
<i>For 3" WG (Class B), Add</i>	27.96	
<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
<i>For 10" WG (Class A), Add</i>	85.73	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0622 LF 22" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0623 LF 22" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0624 LF 22" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0625 LF 22" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0626 LF 22" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0627 LF 22" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0628 LF 22" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13 13-0629 LF 22" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
<i>For 3" WG (Class B), Add</i>	36.90	
<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
<i>For 10" WG (Class A), Add</i>	113.16	
<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13 13-0630 LF 22" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0631 LF 22" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0632 LF 24" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	199.38	107.35
<i>For 3" WG (Class B), Add</i>	26.84	
<i>For 4" Or 6" WG (Class A), Add</i>	57.25	
<i>For 10" WG (Class A), Add</i>	82.30	
<i>For Work In Restricted Working Space, Add</i>	53.68	
23 31 13 13-0633 LF 24" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	207.67	111.81
<i>For 3" WG (Class B), Add</i>	27.96	
<i>For 4" Or 6" WG (Class A), Add</i>	59.64	
<i>For 10" WG (Class A), Add</i>	85.73	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0634 LF 24" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
<i>For 3" WG (Class B), Add</i>	29.07	
<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
<i>For 10" WG (Class A), Add</i>	89.16	
<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13 13-0635 LF 24" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
<i>For 3" WG (Class B), Add</i>	30.19	
<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
<i>For 10" WG (Class A), Add</i>	92.59	
<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13 13-0636 LF 24" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0637	LF	24" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
			<i>For 3" WG (Class B), Add</i>	32.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
			<i>For 10" WG (Class A), Add</i>	99.44	
			<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13	13-0638	LF	24" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
			<i>For 3" WG (Class B), Add</i>	33.55	
			<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
			<i>For 10" WG (Class A), Add</i>	102.88	
			<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13	13-0639	LF	24" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
			<i>For 3" WG (Class B), Add</i>	34.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
			<i>For 10" WG (Class A), Add</i>	106.31	
			<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13	13-0640	LF	24" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
			<i>For 3" WG (Class B), Add</i>	35.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
			<i>For 10" WG (Class A), Add</i>	109.74	
			<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13	13-0641	LF	24" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
			<i>For 3" WG (Class B), Add</i>	36.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
			<i>For 10" WG (Class A), Add</i>	113.16	
			<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13	13-0642	LF	24" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
			<i>For 3" WG (Class B), Add</i>	38.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
			<i>For 10" WG (Class A), Add</i>	116.59	
			<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13	13-0643	LF	24" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
			<i>For 3" WG (Class B), Add</i>	39.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
			<i>For 10" WG (Class A), Add</i>	120.02	
			<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13	13-0644	LF	24" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
			<i>For 3" WG (Class B), Add</i>	40.26	
			<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
			<i>For 10" WG (Class A), Add</i>	123.45	
			<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13	13-0645	LF	26" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	215.99	116.30
			<i>For 3" WG (Class B), Add</i>	29.07	
			<i>For 4" Or 6" WG (Class A), Add</i>	62.03	
			<i>For 10" WG (Class A), Add</i>	89.16	
			<i>For Work In Restricted Working Space, Add</i>	58.15	
23 31 13	13-0646	LF	26" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	224.30	120.76
			<i>For 3" WG (Class B), Add</i>	30.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.41	
			<i>For 10" WG (Class A), Add</i>	92.59	
			<i>For Work In Restricted Working Space, Add</i>	60.38	
23 31 13	13-0647	LF	26" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
			<i>For 3" WG (Class B), Add</i>	31.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
			<i>For 10" WG (Class A), Add</i>	96.02	
			<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13	13-0648	LF	26" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
			<i>For 3" WG (Class B), Add</i>	32.43	
			<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
			<i>For 10" WG (Class A), Add</i>	99.44	
			<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13	13-0649	LF	26" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
			<i>For 3" WG (Class B), Add</i>	33.55	
			<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
			<i>For 10" WG (Class A), Add</i>	102.88	
			<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13	13-0650	LF	26" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
			<i>For 3" WG (Class B), Add</i>	34.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
			<i>For 10" WG (Class A), Add</i>	106.31	
			<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13	13-0651	LF	26" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
			<i>For 3" WG (Class B), Add</i>	35.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
			<i>For 10" WG (Class A), Add</i>	109.74	
			<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13	13-0652	LF	26" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
			<i>For 3" WG (Class B), Add</i>	36.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
			<i>For 10" WG (Class A), Add</i>	113.16	
			<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13	13-0653	LF	26" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
			<i>For 3" WG (Class B), Add</i>	38.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
			<i>For 10" WG (Class A), Add</i>	116.59	
			<i>For Work In Restricted Working Space, Add</i>	76.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0654 LF 26" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0655 LF 26" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0656 LF 26" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0657 LF 28" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	232.59	125.24
<i>For 3" WG (Class B), Add</i>	31.31	
<i>For 4" Or 6" WG (Class A), Add</i>	66.79	
<i>For 10" WG (Class A), Add</i>	96.02	
<i>For Work In Restricted Working Space, Add</i>	62.62	
23 31 13 13-0658 LF 28" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	240.90	129.71
<i>For 3" WG (Class B), Add</i>	32.43	
<i>For 4" Or 6" WG (Class A), Add</i>	69.18	
<i>For 10" WG (Class A), Add</i>	99.44	
<i>For Work In Restricted Working Space, Add</i>	64.85	
23 31 13 13-0659 LF 28" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0660 LF 28" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0661 LF 28" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	
23 31 13 13-0662 LF 28" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
<i>For 3" WG (Class B), Add</i>	36.90	
<i>For 4" Or 6" WG (Class A), Add</i>	78.72	
<i>For 10" WG (Class A), Add</i>	113.16	
<i>For Work In Restricted Working Space, Add</i>	73.80	
23 31 13 13-0663 LF 28" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
<i>For 3" WG (Class B), Add</i>	38.02	
<i>For 4" Or 6" WG (Class A), Add</i>	81.11	
<i>For 10" WG (Class A), Add</i>	116.59	
<i>For Work In Restricted Working Space, Add</i>	76.04	
23 31 13 13-0664 LF 28" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0665 LF 28" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0666 LF 28" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0667 LF 28" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0668 LF 30" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	249.23	134.19
<i>For 3" WG (Class B), Add</i>	33.55	
<i>For 4" Or 6" WG (Class A), Add</i>	71.57	
<i>For 10" WG (Class A), Add</i>	102.88	
<i>For Work In Restricted Working Space, Add</i>	67.10	
23 31 13 13-0669 LF 30" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	257.52	138.65
<i>For 3" WG (Class B), Add</i>	34.67	
<i>For 4" Or 6" WG (Class A), Add</i>	73.95	
<i>For 10" WG (Class A), Add</i>	106.31	
<i>For Work In Restricted Working Space, Add</i>	69.33	
23 31 13 13-0670 LF 30" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
<i>For 3" WG (Class B), Add</i>	35.78	
<i>For 4" Or 6" WG (Class A), Add</i>	76.34	
<i>For 10" WG (Class A), Add</i>	109.74	
<i>For Work In Restricted Working Space, Add</i>	71.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0671 LF 30" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
For 3" WG (Class B), Add	36.90	
For 4" Or 6" WG (Class A), Add	78.72	
For 10" WG (Class A), Add	113.16	
For Work In Restricted Working Space, Add	73.80	
23 31 13 13-0672 LF 30" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
For 3" WG (Class B), Add	38.02	
For 4" Or 6" WG (Class A), Add	81.11	
For 10" WG (Class A), Add	116.59	
For Work In Restricted Working Space, Add	76.04	
23 31 13 13-0673 LF 30" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
For 3" WG (Class B), Add	39.14	
For 4" Or 6" WG (Class A), Add	83.49	
For 10" WG (Class A), Add	120.02	
For Work In Restricted Working Space, Add	78.28	
23 31 13 13-0674 LF 30" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
For 3" WG (Class B), Add	40.26	
For 4" Or 6" WG (Class A), Add	85.88	
For 10" WG (Class A), Add	123.45	
For Work In Restricted Working Space, Add	80.51	
23 31 13 13-0675 LF 30" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
For 3" WG (Class B), Add	41.37	
For 4" Or 6" WG (Class A), Add	88.27	
For 10" WG (Class A), Add	126.88	
For Work In Restricted Working Space, Add	82.75	
23 31 13 13-0676 LF 30" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
For 3" WG (Class B), Add	42.49	
For 4" Or 6" WG (Class A), Add	90.65	
For 10" WG (Class A), Add	130.31	
For Work In Restricted Working Space, Add	84.98	
23 31 13 13-0677 LF 30" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
For 3" WG (Class B), Add	43.61	
For 4" Or 6" WG (Class A), Add	93.04	
For 10" WG (Class A), Add	133.74	
For Work In Restricted Working Space, Add	87.22	
23 31 13 13-0678 LF 32" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	265.84	143.14
For 3" WG (Class B), Add	35.78	
For 4" Or 6" WG (Class A), Add	76.34	
For 10" WG (Class A), Add	109.74	
For Work In Restricted Working Space, Add	71.57	
23 31 13 13-0679 LF 32" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	274.13	147.60
For 3" WG (Class B), Add	36.90	
For 4" Or 6" WG (Class A), Add	78.72	
For 10" WG (Class A), Add	113.16	
For Work In Restricted Working Space, Add	73.80	
23 31 13 13-0680 LF 32" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
For 3" WG (Class B), Add	38.02	
For 4" Or 6" WG (Class A), Add	81.11	
For 10" WG (Class A), Add	116.59	
For Work In Restricted Working Space, Add	76.04	
23 31 13 13-0681 LF 32" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
For 3" WG (Class B), Add	39.14	
For 4" Or 6" WG (Class A), Add	83.49	
For 10" WG (Class A), Add	120.02	
For Work In Restricted Working Space, Add	78.28	
23 31 13 13-0682 LF 32" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
For 3" WG (Class B), Add	40.26	
For 4" Or 6" WG (Class A), Add	85.88	
For 10" WG (Class A), Add	123.45	
For Work In Restricted Working Space, Add	80.51	
23 31 13 13-0683 LF 32" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
For 3" WG (Class B), Add	41.37	
For 4" Or 6" WG (Class A), Add	88.27	
For 10" WG (Class A), Add	126.88	
For Work In Restricted Working Space, Add	82.75	
23 31 13 13-0684 LF 32" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
For 3" WG (Class B), Add	42.49	
For 4" Or 6" WG (Class A), Add	90.65	
For 10" WG (Class A), Add	130.31	
For Work In Restricted Working Space, Add	84.98	
23 31 13 13-0685 LF 32" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
For 3" WG (Class B), Add	43.61	
For 4" Or 6" WG (Class A), Add	93.04	
For 10" WG (Class A), Add	133.74	
For Work In Restricted Working Space, Add	87.22	
23 31 13 13-0686 LF 32" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
For 3" WG (Class B), Add	44.73	
For 4" Or 6" WG (Class A), Add	95.42	
For 10" WG (Class A), Add	137.17	
For Work In Restricted Working Space, Add	89.46	
23 31 13 13-0687 LF 34" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	282.44	152.09
For 3" WG (Class B), Add	38.02	
For 4" Or 6" WG (Class A), Add	81.11	
For 10" WG (Class A), Add	116.59	
For Work In Restricted Working Space, Add	76.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0688 LF 34" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	290.76	156.55
<i>For 3" WG (Class B), Add</i>	39.14	
<i>For 4" Or 6" WG (Class A), Add</i>	83.49	
<i>For 10" WG (Class A), Add</i>	120.02	
<i>For Work In Restricted Working Space, Add</i>	78.28	
23 31 13 13-0689 LF 34" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0690 LF 34" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0691 LF 34" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0692 LF 34" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
<i>For 3" WG (Class B), Add</i>	43.61	
<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
<i>For 10" WG (Class A), Add</i>	133.74	
<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13 13-0693 LF 34" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
<i>For 3" WG (Class B), Add</i>	44.73	
<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
<i>For 10" WG (Class A), Add</i>	137.17	
<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13 13-0694 LF 34" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
<i>For 3" WG (Class B), Add</i>	45.85	
<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
<i>For 10" WG (Class A), Add</i>	140.59	
<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13 13-0695 LF 36" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	299.05	161.03
<i>For 3" WG (Class B), Add</i>	40.26	
<i>For 4" Or 6" WG (Class A), Add</i>	85.88	
<i>For 10" WG (Class A), Add</i>	123.45	
<i>For Work In Restricted Working Space, Add</i>	80.51	
23 31 13 13-0696 LF 36" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	307.37	165.50
<i>For 3" WG (Class B), Add</i>	41.37	
<i>For 4" Or 6" WG (Class A), Add</i>	88.27	
<i>For 10" WG (Class A), Add</i>	126.88	
<i>For Work In Restricted Working Space, Add</i>	82.75	
23 31 13 13-0697 LF 36" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0698 LF 36" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
<i>For 3" WG (Class B), Add</i>	43.61	
<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
<i>For 10" WG (Class A), Add</i>	133.74	
<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13 13-0699 LF 36" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
<i>For 3" WG (Class B), Add</i>	44.73	
<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
<i>For 10" WG (Class A), Add</i>	137.17	
<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13 13-0700 LF 36" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
<i>For 3" WG (Class B), Add</i>	45.85	
<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
<i>For 10" WG (Class A), Add</i>	140.59	
<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13 13-0701 LF 36" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
<i>For 3" WG (Class B), Add</i>	46.97	
<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
<i>For 10" WG (Class A), Add</i>	144.03	
<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13 13-0702 LF 38" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	315.66	169.98
<i>For 3" WG (Class B), Add</i>	42.49	
<i>For 4" Or 6" WG (Class A), Add</i>	90.65	
<i>For 10" WG (Class A), Add</i>	130.31	
<i>For Work In Restricted Working Space, Add</i>	84.98	
23 31 13 13-0703 LF 38" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	323.98	174.44
<i>For 3" WG (Class B), Add</i>	43.61	
<i>For 4" Or 6" WG (Class A), Add</i>	93.04	
<i>For 10" WG (Class A), Add</i>	133.74	
<i>For Work In Restricted Working Space, Add</i>	87.22	
23 31 13 13-0704 LF 38" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
<i>For 3" WG (Class B), Add</i>	44.73	
<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
<i>For 10" WG (Class A), Add</i>	137.17	
<i>For Work In Restricted Working Space, Add</i>	89.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0705	LF	38" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
			<i>For 3" WG (Class B), Add</i>	45.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
			<i>For 10" WG (Class A), Add</i>	140.59	
			<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13	13-0706	LF	38" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0707	LF	38" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
			<i>For 3" WG (Class B), Add</i>	48.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
			<i>For 10" WG (Class A), Add</i>	147.46	
			<i>For Work In Restricted Working Space, Add</i>	96.17	
23 31 13	13-0708	LF	38" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
			<i>For 3" WG (Class B), Add</i>	49.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
			<i>For 10" WG (Class A), Add</i>	150.89	
			<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13	13-0709	LF	40" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	332.30	178.92
			<i>For 3" WG (Class B), Add</i>	44.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	95.42	
			<i>For 10" WG (Class A), Add</i>	137.17	
			<i>For Work In Restricted Working Space, Add</i>	89.46	
23 31 13	13-0710	LF	40" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	340.58	183.39
			<i>For 3" WG (Class B), Add</i>	45.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	97.80	
			<i>For 10" WG (Class A), Add</i>	140.59	
			<i>For Work In Restricted Working Space, Add</i>	91.69	
23 31 13	13-0711	LF	40" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0712	LF	40" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
			<i>For 3" WG (Class B), Add</i>	48.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
			<i>For 10" WG (Class A), Add</i>	147.46	
			<i>For Work In Restricted Working Space, Add</i>	96.17	
23 31 13	13-0713	LF	40" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
			<i>For 3" WG (Class B), Add</i>	49.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
			<i>For 10" WG (Class A), Add</i>	150.89	
			<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13	13-0714	LF	40" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
			<i>For 3" WG (Class B), Add</i>	50.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
			<i>For 10" WG (Class A), Add</i>	154.32	
			<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13	13-0715	LF	40" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
			<i>For 3" WG (Class B), Add</i>	51.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
			<i>For 10" WG (Class A), Add</i>	157.74	
			<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13	13-0716	LF	40" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
			<i>For 3" WG (Class B), Add</i>	52.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
			<i>For 10" WG (Class A), Add</i>	161.17	
			<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13	13-0717	LF	40" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
			<i>For 3" WG (Class B), Add</i>	53.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
			<i>For 10" WG (Class A), Add</i>	164.60	
			<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13	13-0718	LF	42" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	348.90	187.86
			<i>For 3" WG (Class B), Add</i>	46.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	100.19	
			<i>For 10" WG (Class A), Add</i>	144.03	
			<i>For Work In Restricted Working Space, Add</i>	93.93	
23 31 13	13-0719	LF	42" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	357.22	192.34
			<i>For 3" WG (Class B), Add</i>	48.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	102.58	
			<i>For 10" WG (Class A), Add</i>	147.46	
			<i>For Work In Restricted Working Space, Add</i>	96.17	
23 31 13	13-0720	LF	42" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
			<i>For 3" WG (Class B), Add</i>	49.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
			<i>For 10" WG (Class A), Add</i>	150.89	
			<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13	13-0721	LF	42" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
			<i>For 3" WG (Class B), Add</i>	50.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
			<i>For 10" WG (Class A), Add</i>	154.32	
			<i>For Work In Restricted Working Space, Add</i>	100.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0722 LF 42" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0723 LF 42" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13 13-0724 LF 42" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
<i>For 3" WG (Class B), Add</i>	53.67	
<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
<i>For 10" WG (Class A), Add</i>	164.60	
<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13 13-0725 LF 42" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
<i>For 3" WG (Class B), Add</i>	54.79	
<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
<i>For 10" WG (Class A), Add</i>	168.03	
<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13 13-0726 LF 44" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	365.52	196.81
<i>For 3" WG (Class B), Add</i>	49.20	
<i>For 4" Or 6" WG (Class A), Add</i>	104.97	
<i>For 10" WG (Class A), Add</i>	150.89	
<i>For Work In Restricted Working Space, Add</i>	98.41	
23 31 13 13-0727 LF 44" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	373.83	201.28
<i>For 3" WG (Class B), Add</i>	50.32	
<i>For 4" Or 6" WG (Class A), Add</i>	107.35	
<i>For 10" WG (Class A), Add</i>	154.32	
<i>For Work In Restricted Working Space, Add</i>	100.64	
23 31 13 13-0728 LF 44" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0729 LF 44" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13 13-0730 LF 44" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
<i>For 3" WG (Class B), Add</i>	53.67	
<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
<i>For 10" WG (Class A), Add</i>	164.60	
<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13 13-0731 LF 44" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
<i>For 3" WG (Class B), Add</i>	54.79	
<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
<i>For 10" WG (Class A), Add</i>	168.03	
<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13 13-0732 LF 44" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
<i>For 3" WG (Class B), Add</i>	55.91	
<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
<i>For 10" WG (Class A), Add</i>	171.46	
<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13 13-0733 LF 46" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	382.12	205.76
<i>For 3" WG (Class B), Add</i>	51.44	
<i>For 4" Or 6" WG (Class A), Add</i>	109.73	
<i>For 10" WG (Class A), Add</i>	157.74	
<i>For Work In Restricted Working Space, Add</i>	102.88	
23 31 13 13-0734 LF 46" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	390.43	210.23
<i>For 3" WG (Class B), Add</i>	52.56	
<i>For 4" Or 6" WG (Class A), Add</i>	112.12	
<i>For 10" WG (Class A), Add</i>	161.17	
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 31 13 13-0735 LF 46" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
<i>For 3" WG (Class B), Add</i>	53.67	
<i>For 4" Or 6" WG (Class A), Add</i>	114.51	
<i>For 10" WG (Class A), Add</i>	164.60	
<i>For Work In Restricted Working Space, Add</i>	107.35	
23 31 13 13-0736 LF 46" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
<i>For 3" WG (Class B), Add</i>	54.79	
<i>For 4" Or 6" WG (Class A), Add</i>	116.89	
<i>For 10" WG (Class A), Add</i>	168.03	
<i>For Work In Restricted Working Space, Add</i>	109.58	
23 31 13 13-0737 LF 46" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
<i>For 3" WG (Class B), Add</i>	55.91	
<i>For 4" Or 6" WG (Class A), Add</i>	119.28	
<i>For 10" WG (Class A), Add</i>	171.46	
<i>For Work In Restricted Working Space, Add</i>	111.82	
23 31 13 13-0738 LF 46" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.13	232.60
<i>For 3" WG (Class B), Add</i>	58.15	
<i>For 4" Or 6" WG (Class A), Add</i>	124.05	
<i>For 10" WG (Class A), Add</i>	178.32	
<i>For Work In Restricted Working Space, Add</i>	116.30	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0739 LF 46" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	439.43	237.06
For 3" WG (Class B), Add	59.27	
For 4" Or 6" WG (Class A), Add	126.44	
For 10" WG (Class A), Add	181.75	
For Work In Restricted Working Space, Add	118.53	
23 31 13 13-0740 LF 48" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	398.75	214.70
For 3" WG (Class B), Add	53.67	
For 4" Or 6" WG (Class A), Add	114.51	
For 10" WG (Class A), Add	164.60	
For Work In Restricted Working Space, Add	107.35	
23 31 13 13-0741 LF 48" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	407.04	219.18
For 3" WG (Class B), Add	54.79	
For 4" Or 6" WG (Class A), Add	116.89	
For 10" WG (Class A), Add	168.03	
For Work In Restricted Working Space, Add	109.58	
23 31 13 13-0742 LF 48" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
For 3" WG (Class B), Add	55.91	
For 4" Or 6" WG (Class A), Add	119.28	
For 10" WG (Class A), Add	171.46	
For Work In Restricted Working Space, Add	111.82	
23 31 13 13-0743 LF 48" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	423.68	228.11
For 3" WG (Class B), Add	57.03	
For 4" Or 6" WG (Class A), Add	121.66	
For 10" WG (Class A), Add	174.89	
For Work In Restricted Working Space, Add	114.06	
23 31 13 13-0744 LF 48" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
For 3" WG (Class B), Add	58.15	
For 4" Or 6" WG (Class A), Add	124.05	
For 10" WG (Class A), Add	178.32	
For Work In Restricted Working Space, Add	116.30	
23 31 13 13-0745 LF 48" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
For 3" WG (Class B), Add	59.27	
For 4" Or 6" WG (Class A), Add	126.44	
For 10" WG (Class A), Add	181.75	
For Work In Restricted Working Space, Add	118.53	
23 31 13 13-0746 LF 48" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
For 3" WG (Class B), Add	60.38	
For 4" Or 6" WG (Class A), Add	128.82	
For 10" WG (Class A), Add	185.17	
For Work In Restricted Working Space, Add	120.77	
23 31 13 13-0747 LF 50" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	415.36	223.65
For 3" WG (Class B), Add	55.91	
For 4" Or 6" WG (Class A), Add	119.28	
For 10" WG (Class A), Add	171.46	
For Work In Restricted Working Space, Add	111.82	
23 31 13 13-0748 LF 50" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	423.68	228.11
For 3" WG (Class B), Add	57.03	
For 4" Or 6" WG (Class A), Add	121.66	
For 10" WG (Class A), Add	174.89	
For Work In Restricted Working Space, Add	114.06	
23 31 13 13-0749 LF 50" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
For 3" WG (Class B), Add	58.15	
For 4" Or 6" WG (Class A), Add	124.05	
For 10" WG (Class A), Add	178.32	
For Work In Restricted Working Space, Add	116.30	
23 31 13 13-0750 LF 50" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
For 3" WG (Class B), Add	59.27	
For 4" Or 6" WG (Class A), Add	126.44	
For 10" WG (Class A), Add	181.75	
For Work In Restricted Working Space, Add	118.53	
23 31 13 13-0751 LF 50" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
For 3" WG (Class B), Add	60.38	
For 4" Or 6" WG (Class A), Add	128.82	
For 10" WG (Class A), Add	185.17	
For Work In Restricted Working Space, Add	120.77	
23 31 13 13-0752 LF 50" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
For 3" WG (Class B), Add	61.50	
For 4" Or 6" WG (Class A), Add	131.20	
For 10" WG (Class A), Add	188.60	
For Work In Restricted Working Space, Add	123.00	
23 31 13 13-0753 LF 52" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	431.97	232.60
For 3" WG (Class B), Add	58.15	
For 4" Or 6" WG (Class A), Add	124.05	
For 10" WG (Class A), Add	178.32	
For Work In Restricted Working Space, Add	116.30	
23 31 13 13-0754 LF 52" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	440.29	237.06
For 3" WG (Class B), Add	59.27	
For 4" Or 6" WG (Class A), Add	126.44	
For 10" WG (Class A), Add	181.75	
For Work In Restricted Working Space, Add	118.53	
23 31 13 13-0755 LF 52" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
For 3" WG (Class B), Add	60.38	
For 4" Or 6" WG (Class A), Add	128.82	
For 10" WG (Class A), Add	185.17	
For Work In Restricted Working Space, Add	120.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0756 LF 52" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
<i>For 3" WG (Class B), Add</i>	61.50	
<i>For 4" Or 6" WG (Class A), Add</i>	131.20	
<i>For 10" WG (Class A), Add</i>	188.60	
<i>For Work In Restricted Working Space, Add</i>	123.00	
23 31 13 13-0757 LF 52" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
<i>For 3" WG (Class B), Add</i>	62.62	
<i>For 4" Or 6" WG (Class A), Add</i>	133.59	
<i>For 10" WG (Class A), Add</i>	192.04	
<i>For Work In Restricted Working Space, Add</i>	125.24	
23 31 13 13-0758 LF 54" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	448.57	241.54
<i>For 3" WG (Class B), Add</i>	60.38	
<i>For 4" Or 6" WG (Class A), Add</i>	128.82	
<i>For 10" WG (Class A), Add</i>	185.17	
<i>For Work In Restricted Working Space, Add</i>	120.77	
23 31 13 13-0759 LF 54" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	456.89	246.01
<i>For 3" WG (Class B), Add</i>	61.50	
<i>For 4" Or 6" WG (Class A), Add</i>	131.20	
<i>For 10" WG (Class A), Add</i>	188.60	
<i>For Work In Restricted Working Space, Add</i>	123.00	
23 31 13 13-0760 LF 54" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
<i>For 3" WG (Class B), Add</i>	62.62	
<i>For 4" Or 6" WG (Class A), Add</i>	133.59	
<i>For 10" WG (Class A), Add</i>	192.04	
<i>For Work In Restricted Working Space, Add</i>	125.24	
23 31 13 13-0761 LF 54" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	473.51	254.95
<i>For 3" WG (Class B), Add</i>	63.74	
<i>For 4" Or 6" WG (Class A), Add</i>	135.98	
<i>For 10" WG (Class A), Add</i>	195.47	
<i>For Work In Restricted Working Space, Add</i>	127.48	
23 31 13 13-0762 LF 54" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
<i>For 3" WG (Class B), Add</i>	64.86	
<i>For 4" Or 6" WG (Class A), Add</i>	138.36	
<i>For 10" WG (Class A), Add</i>	198.89	
<i>For Work In Restricted Working Space, Add</i>	129.71	
23 31 13 13-0763 LF 54" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
<i>For 3" WG (Class B), Add</i>	65.97	
<i>For 4" Or 6" WG (Class A), Add</i>	140.75	
<i>For 10" WG (Class A), Add</i>	202.32	
<i>For Work In Restricted Working Space, Add</i>	131.95	
23 31 13 13-0764 LF 56" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.22	250.49
<i>For 3" WG (Class B), Add</i>	62.62	
<i>For 4" Or 6" WG (Class A), Add</i>	133.59	
<i>For 10" WG (Class A), Add</i>	192.04	
<i>For Work In Restricted Working Space, Add</i>	125.24	
23 31 13 13-0765 LF 56" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	473.51	254.95
<i>For 3" WG (Class B), Add</i>	63.74	
<i>For 4" Or 6" WG (Class A), Add</i>	135.98	
<i>For 10" WG (Class A), Add</i>	195.47	
<i>For Work In Restricted Working Space, Add</i>	127.48	
23 31 13 13-0766 LF 56" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
<i>For 3" WG (Class B), Add</i>	64.86	
<i>For 4" Or 6" WG (Class A), Add</i>	138.36	
<i>For 10" WG (Class A), Add</i>	198.89	
<i>For Work In Restricted Working Space, Add</i>	129.71	
23 31 13 13-0767 LF 56" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
<i>For 3" WG (Class B), Add</i>	65.97	
<i>For 4" Or 6" WG (Class A), Add</i>	140.75	
<i>For 10" WG (Class A), Add</i>	202.32	
<i>For Work In Restricted Working Space, Add</i>	131.95	
23 31 13 13-0768 LF 56" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
<i>For 3" WG (Class B), Add</i>	67.09	
<i>For 4" Or 6" WG (Class A), Add</i>	143.13	
<i>For 10" WG (Class A), Add</i>	205.75	
<i>For Work In Restricted Working Space, Add</i>	134.19	
23 31 13 13-0769 LF 58" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	481.82	259.43
<i>For 3" WG (Class B), Add</i>	64.86	
<i>For 4" Or 6" WG (Class A), Add</i>	138.36	
<i>For 10" WG (Class A), Add</i>	198.89	
<i>For Work In Restricted Working Space, Add</i>	129.71	
23 31 13 13-0770 LF 58" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	490.11	263.90
<i>For 3" WG (Class B), Add</i>	65.97	
<i>For 4" Or 6" WG (Class A), Add</i>	140.75	
<i>For 10" WG (Class A), Add</i>	202.32	
<i>For Work In Restricted Working Space, Add</i>	131.95	
23 31 13 13-0771 LF 58" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
<i>For 3" WG (Class B), Add</i>	67.09	
<i>For 4" Or 6" WG (Class A), Add</i>	143.13	
<i>For 10" WG (Class A), Add</i>	205.75	
<i>For Work In Restricted Working Space, Add</i>	134.19	
23 31 13 13-0772 LF 58" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	506.74	272.85
<i>For 3" WG (Class B), Add</i>	68.21	
<i>For 4" Or 6" WG (Class A), Add</i>	145.52	
<i>For 10" WG (Class A), Add</i>	209.18	
<i>For Work In Restricted Working Space, Add</i>	136.42	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0773	LF 58" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
			For 3" WG (Class B), Add	69.33	
			For 4" Or 6" WG (Class A), Add	147.90	
			For 10" WG (Class A), Add	212.61	
			For Work In Restricted Working Space, Add	138.66	
23 31	13	13-0774	LF 60" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	498.43	268.37
			For 3" WG (Class B), Add	67.09	
			For 4" Or 6" WG (Class A), Add	143.13	
			For 10" WG (Class A), Add	205.75	
			For Work In Restricted Working Space, Add	134.19	
23 31	13	13-0775	LF 60" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	506.74	272.85
			For 3" WG (Class B), Add	68.21	
			For 4" Or 6" WG (Class A), Add	145.52	
			For 10" WG (Class A), Add	209.18	
			For Work In Restricted Working Space, Add	136.42	
23 31	13	13-0776	LF 60" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
			For 3" WG (Class B), Add	69.33	
			For 4" Or 6" WG (Class A), Add	147.90	
			For 10" WG (Class A), Add	212.61	
			For Work In Restricted Working Space, Add	138.66	
23 31	13	13-0777	LF 60" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	523.36	281.79
			For 3" WG (Class B), Add	70.45	
			For 4" Or 6" WG (Class A), Add	150.29	
			For 10" WG (Class A), Add	216.04	
			For Work In Restricted Working Space, Add	140.90	
23 31	13	13-0778	LF 60" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
			For 3" WG (Class B), Add	71.57	
			For 4" Or 6" WG (Class A), Add	152.68	
			For 10" WG (Class A), Add	219.47	
			For Work In Restricted Working Space, Add	143.13	
23 31	13	13-0779	LF 62" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	515.03	277.31
			For 3" WG (Class B), Add	69.33	
			For 4" Or 6" WG (Class A), Add	147.90	
			For 10" WG (Class A), Add	212.61	
			For Work In Restricted Working Space, Add	138.66	
23 31	13	13-0780	LF 62" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	523.36	281.79
			For 3" WG (Class B), Add	70.45	
			For 4" Or 6" WG (Class A), Add	150.29	
			For 10" WG (Class A), Add	216.04	
			For Work In Restricted Working Space, Add	140.90	
23 31	13	13-0781	LF 62" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
			For 3" WG (Class B), Add	71.57	
			For 4" Or 6" WG (Class A), Add	152.68	
			For 10" WG (Class A), Add	219.47	
			For Work In Restricted Working Space, Add	143.13	
23 31	13	13-0782	LF 62" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	539.97	290.74
			For 3" WG (Class B), Add	72.69	
			For 4" Or 6" WG (Class A), Add	155.06	
			For 10" WG (Class A), Add	222.90	
			For Work In Restricted Working Space, Add	145.37	
23 31	13	13-0783	LF 62" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
			For 3" WG (Class B), Add	73.80	
			For 4" Or 6" WG (Class A), Add	157.45	
			For 10" WG (Class A), Add	226.33	
			For Work In Restricted Working Space, Add	147.61	
23 31	13	13-0784	LF 64" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	531.67	286.26
			For 3" WG (Class B), Add	71.57	
			For 4" Or 6" WG (Class A), Add	152.68	
			For 10" WG (Class A), Add	219.47	
			For Work In Restricted Working Space, Add	143.13	
23 31	13	13-0785	LF 64" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	539.97	290.74
			For 3" WG (Class B), Add	72.69	
			For 4" Or 6" WG (Class A), Add	155.06	
			For 10" WG (Class A), Add	222.90	
			For Work In Restricted Working Space, Add	145.37	
23 31	13	13-0786	LF 64" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
			For 3" WG (Class B), Add	73.80	
			For 4" Or 6" WG (Class A), Add	157.45	
			For 10" WG (Class A), Add	226.33	
			For Work In Restricted Working Space, Add	147.61	
23 31	13	13-0787	LF 64" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	556.57	299.69
			For 3" WG (Class B), Add	74.92	
			For 4" Or 6" WG (Class A), Add	159.83	
			For 10" WG (Class A), Add	229.76	
			For Work In Restricted Working Space, Add	149.84	
23 31	13	13-0788	LF 66" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	548.28	295.20
			For 3" WG (Class B), Add	73.80	
			For 4" Or 6" WG (Class A), Add	157.45	
			For 10" WG (Class A), Add	226.33	
			For Work In Restricted Working Space, Add	147.61	
23 31	13	13-0789	LF 66" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	556.57	299.69
			For 3" WG (Class B), Add	74.92	
			For 4" Or 6" WG (Class A), Add	159.83	
			For 10" WG (Class A), Add	229.76	
			For Work In Restricted Working Space, Add	149.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0790 LF 66" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	564.88	304.15
<i>For 3" WG (Class B), Add</i>	76.04	
<i>For 4" Or 6" WG (Class A), Add</i>	162.21	
<i>For 10" WG (Class A), Add</i>	233.18	
<i>For Work In Restricted Working Space, Add</i>	152.08	
23 31 13 13-0791 LF 66" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.20	308.63
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.60	
<i>For 10" WG (Class A), Add</i>	236.61	
<i>For Work In Restricted Working Space, Add</i>	154.31	
23 31 13 13-0792 LF 68" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	564.88	304.15
<i>For 3" WG (Class B), Add</i>	76.04	
<i>For 4" Or 6" WG (Class A), Add</i>	162.21	
<i>For 10" WG (Class A), Add</i>	233.18	
<i>For Work In Restricted Working Space, Add</i>	152.08	
23 31 13 13-0793 LF 68" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.20	308.63
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.60	
<i>For 10" WG (Class A), Add</i>	236.61	
<i>For Work In Restricted Working Space, Add</i>	154.31	
23 31 13 13-0794 LF 68" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	581.50	313.10
<i>For 3" WG (Class B), Add</i>	78.28	
<i>For 4" Or 6" WG (Class A), Add</i>	166.99	
<i>For 10" WG (Class A), Add</i>	240.05	
<i>For Work In Restricted Working Space, Add</i>	156.55	
23 31 13 13-0795 LF 68" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	589.81	317.58
<i>For 3" WG (Class B), Add</i>	79.39	
<i>For 4" Or 6" WG (Class A), Add</i>	169.37	
<i>For 10" WG (Class A), Add</i>	243.47	
<i>For Work In Restricted Working Space, Add</i>	158.79	
23 31 13 13-0796 LF 70" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	581.50	313.10
<i>For 3" WG (Class B), Add</i>	78.28	
<i>For 4" Or 6" WG (Class A), Add</i>	166.99	
<i>For 10" WG (Class A), Add</i>	240.05	
<i>For Work In Restricted Working Space, Add</i>	156.55	
23 31 13 13-0797 LF 70" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	589.81	317.58
<i>For 3" WG (Class B), Add</i>	79.39	
<i>For 4" Or 6" WG (Class A), Add</i>	169.37	
<i>For 10" WG (Class A), Add</i>	243.47	
<i>For Work In Restricted Working Space, Add</i>	158.79	
23 31 13 13-0798 LF 70" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	598.13	322.04
<i>For 3" WG (Class B), Add</i>	80.51	
<i>For 4" Or 6" WG (Class A), Add</i>	171.76	
<i>For 10" WG (Class A), Add</i>	246.91	
<i>For Work In Restricted Working Space, Add</i>	161.03	
23 31 13 13-0799 LF 70" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	606.42	326.53
<i>For 3" WG (Class B), Add</i>	81.63	
<i>For 4" Or 6" WG (Class A), Add</i>	174.14	
<i>For 10" WG (Class A), Add</i>	250.33	
<i>For Work In Restricted Working Space, Add</i>	163.26	
23 31 13 13-0800 LF 70" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
<i>For 3" WG (Class B), Add</i>	82.75	
<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
<i>For 10" WG (Class A), Add</i>	253.76	
<i>For Work In Restricted Working Space, Add</i>	165.50	
23 31 13 13-0801 LF 70" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
<i>For 3" WG (Class B), Add</i>	83.87	
<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
<i>For 10" WG (Class A), Add</i>	257.19	
<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13 13-0802 LF 70" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
<i>For 3" WG (Class B), Add</i>	84.99	
<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
<i>For 10" WG (Class A), Add</i>	260.62	
<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13 13-0803 LF 70" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
<i>For 3" WG (Class B), Add</i>	86.10	
<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
<i>For 10" WG (Class A), Add</i>	264.05	
<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13 13-0804 LF 72" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	598.13	322.04
<i>For 3" WG (Class B), Add</i>	80.51	
<i>For 4" Or 6" WG (Class A), Add</i>	171.76	
<i>For 10" WG (Class A), Add</i>	246.91	
<i>For Work In Restricted Working Space, Add</i>	161.03	
23 31 13 13-0805 LF 72" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	606.42	326.53
<i>For 3" WG (Class B), Add</i>	81.63	
<i>For 4" Or 6" WG (Class A), Add</i>	174.14	
<i>For 10" WG (Class A), Add</i>	250.33	
<i>For Work In Restricted Working Space, Add</i>	163.26	
23 31 13 13-0806 LF 72" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
<i>For 3" WG (Class B), Add</i>	82.75	
<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
<i>For 10" WG (Class A), Add</i>	253.76	
<i>For Work In Restricted Working Space, Add</i>	165.50	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0807	LF	72" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
			<i>For 3" WG (Class B), Add</i>	83.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
			<i>For 10" WG (Class A), Add</i>	257.19	
			<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13	13-0808	LF	72" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13	13-0809	LF	72" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13	13-0810	LF	72" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
			<i>For 3" WG (Class B), Add</i>	87.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
			<i>For 10" WG (Class A), Add</i>	267.48	
			<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13	13-0811	LF	74" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	614.74	330.99
			<i>For 3" WG (Class B), Add</i>	82.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	176.53	
			<i>For 10" WG (Class A), Add</i>	253.76	
			<i>For Work In Restricted Working Space, Add</i>	165.50	
23 31 13	13-0812	LF	74" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	623.02	335.47
			<i>For 3" WG (Class B), Add</i>	83.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	178.91	
			<i>For 10" WG (Class A), Add</i>	257.19	
			<i>For Work In Restricted Working Space, Add</i>	167.73	
23 31 13	13-0813	LF	74" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13	13-0814	LF	74" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13	13-0815	LF	74" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
			<i>For 3" WG (Class B), Add</i>	87.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
			<i>For 10" WG (Class A), Add</i>	267.48	
			<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13	13-0816	LF	74" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
			<i>For 3" WG (Class B), Add</i>	88.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
			<i>For 10" WG (Class A), Add</i>	270.91	
			<i>For Work In Restricted Working Space, Add</i>	176.68	
23 31 13	13-0817	LF	76" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	631.35	339.94
			<i>For 3" WG (Class B), Add</i>	84.99	
			<i>For 4" Or 6" WG (Class A), Add</i>	181.30	
			<i>For 10" WG (Class A), Add</i>	260.62	
			<i>For Work In Restricted Working Space, Add</i>	169.97	
23 31 13	13-0818	LF	76" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	639.66	344.41
			<i>For 3" WG (Class B), Add</i>	86.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.69	
			<i>For 10" WG (Class A), Add</i>	264.05	
			<i>For Work In Restricted Working Space, Add</i>	172.21	
23 31 13	13-0819	LF	76" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
			<i>For 3" WG (Class B), Add</i>	87.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
			<i>For 10" WG (Class A), Add</i>	267.48	
			<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13	13-0820	LF	76" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
			<i>For 3" WG (Class B), Add</i>	88.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
			<i>For 10" WG (Class A), Add</i>	270.91	
			<i>For Work In Restricted Working Space, Add</i>	176.68	
23 31 13	13-0821	LF	76" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
			<i>For 3" WG (Class B), Add</i>	89.46	
			<i>For 4" Or 6" WG (Class A), Add</i>	190.84	
			<i>For 10" WG (Class A), Add</i>	274.33	
			<i>For Work In Restricted Working Space, Add</i>	178.91	
23 31 13	13-0822	LF	78" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	647.96	348.88
			<i>For 3" WG (Class B), Add</i>	87.22	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.07	
			<i>For 10" WG (Class A), Add</i>	267.48	
			<i>For Work In Restricted Working Space, Add</i>	174.44	
23 31 13	13-0823	LF	78" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	656.28	353.36
			<i>For 3" WG (Class B), Add</i>	88.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	188.46	
			<i>For 10" WG (Class A), Add</i>	270.91	
			<i>For Work In Restricted Working Space, Add</i>	176.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0824 LF 78" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
For 3" WG (Class B), Add	89.46	
For 4" Or 6" WG (Class A), Add	190.84	
For 10" WG (Class A), Add	274.33	
For Work In Restricted Working Space, Add	178.91	
23 31 13 13-0825 LF 78" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	672.88	362.30
For 3" WG (Class B), Add	90.58	
For 4" Or 6" WG (Class A), Add	193.23	
For 10" WG (Class A), Add	277.77	
For Work In Restricted Working Space, Add	181.15	
23 31 13 13-0826 LF 80" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	664.56	357.83
For 3" WG (Class B), Add	89.46	
For 4" Or 6" WG (Class A), Add	190.84	
For 10" WG (Class A), Add	274.33	
For Work In Restricted Working Space, Add	178.91	
23 31 13 13-0827 LF 80" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	672.88	362.30
For 3" WG (Class B), Add	90.58	
For 4" Or 6" WG (Class A), Add	193.23	
For 10" WG (Class A), Add	277.77	
For Work In Restricted Working Space, Add	181.15	
23 31 13 13-0828 LF 80" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.19	366.78
For 3" WG (Class B), Add	91.69	
For 4" Or 6" WG (Class A), Add	195.61	
For 10" WG (Class A), Add	281.19	
For Work In Restricted Working Space, Add	183.39	
23 31 13 13-0829 LF 82" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.19	366.78
For 3" WG (Class B), Add	91.69	
For 4" Or 6" WG (Class A), Add	195.61	
For 10" WG (Class A), Add	281.19	
For Work In Restricted Working Space, Add	183.39	
23 31 13 13-0830 LF 82" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	689.50	371.25
For 3" WG (Class B), Add	92.81	
For 4" Or 6" WG (Class A), Add	198.00	
For 10" WG (Class A), Add	284.63	
For Work In Restricted Working Space, Add	185.63	
23 31 13 13-0831 LF 84" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	697.80	375.72
For 3" WG (Class B), Add	93.93	
For 4" Or 6" WG (Class A), Add	200.38	
For 10" WG (Class A), Add	288.05	
For Work In Restricted Working Space, Add	187.86	
23 31 13 13-0832 18 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
23 31 13 13-0833 LF 4" x 4", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	43.27	23.29
For 3" WG (Class B), Add	5.82	
For 4" Or 6" WG (Class A), Add	12.43	
For 10" WG (Class A), Add	17.86	
For Work In Restricted Working Space, Add	11.65	
23 31 13 13-0834 LF 4" x 6", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	54.08	29.11
For 3" WG (Class B), Add	7.28	
For 4" Or 6" WG (Class A), Add	15.53	
For 10" WG (Class A), Add	22.32	
For Work In Restricted Working Space, Add	14.56	
23 31 13 13-0835 LF 4" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	64.88	34.94
For 3" WG (Class B), Add	8.73	
For 4" Or 6" WG (Class A), Add	18.63	
For 10" WG (Class A), Add	26.79	
For Work In Restricted Working Space, Add	17.47	
23 31 13 13-0836 LF 4" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.70	40.76
For 3" WG (Class B), Add	10.19	
For 4" Or 6" WG (Class A), Add	21.74	
For 10" WG (Class A), Add	31.25	
For Work In Restricted Working Space, Add	20.38	
23 31 13 13-0837 LF 4" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52	46.59
For 3" WG (Class B), Add	11.65	
For 4" Or 6" WG (Class A), Add	24.84	
For 10" WG (Class A), Add	35.71	
For Work In Restricted Working Space, Add	23.29	
23 31 13 13-0838 LF 4" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33	52.41
For 3" WG (Class B), Add	13.10	
For 4" Or 6" WG (Class A), Add	27.95	
For 10" WG (Class A), Add	40.18	
For Work In Restricted Working Space, Add	26.20	
23 31 13 13-0839 LF 4" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16	58.23
For 3" WG (Class B), Add	14.56	
For 4" Or 6" WG (Class A), Add	31.06	
For 10" WG (Class A), Add	44.65	
For Work In Restricted Working Space, Add	29.12	
23 31 13 13-0840 LF 6" x 6", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	64.88	34.94
For 3" WG (Class B), Add	8.73	
For 4" Or 6" WG (Class A), Add	18.63	
For 10" WG (Class A), Add	26.79	
For Work In Restricted Working Space, Add	17.47	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 13 13-0841	LF	6" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	75.70		40.76
		<i>For 3" WG (Class B), Add</i>	10.19		
		<i>For 4" Or 6" WG (Class A), Add</i>	21.74		
		<i>For 10" WG (Class A), Add</i>	31.25		
		<i>For Work In Restricted Working Space, Add</i>	20.38		
23 31 13 13-0842	LF	6" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52		46.59
		<i>For 3" WG (Class B), Add</i>	11.65		
		<i>For 4" Or 6" WG (Class A), Add</i>	24.84		
		<i>For 10" WG (Class A), Add</i>	35.71		
		<i>For Work In Restricted Working Space, Add</i>	23.29		
23 31 13 13-0843	LF	6" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33		52.41
		<i>For 3" WG (Class B), Add</i>	13.10		
		<i>For 4" Or 6" WG (Class A), Add</i>	27.95		
		<i>For 10" WG (Class A), Add</i>	40.18		
		<i>For Work In Restricted Working Space, Add</i>	26.20		
23 31 13 13-0844	LF	6" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16		58.23
		<i>For 3" WG (Class B), Add</i>	14.56		
		<i>For 4" Or 6" WG (Class A), Add</i>	31.06		
		<i>For 10" WG (Class A), Add</i>	44.65		
		<i>For Work In Restricted Working Space, Add</i>	29.12		
23 31 13 13-0845	LF	6" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97		64.06
		<i>For 3" WG (Class B), Add</i>	16.02		
		<i>For 4" Or 6" WG (Class A), Add</i>	34.17		
		<i>For 10" WG (Class A), Add</i>	49.11		
		<i>For Work In Restricted Working Space, Add</i>	32.03		
23 31 13 13-0846	LF	8" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	86.52		46.59
		<i>For 3" WG (Class B), Add</i>	11.65		
		<i>For 4" Or 6" WG (Class A), Add</i>	24.84		
		<i>For 10" WG (Class A), Add</i>	35.71		
		<i>For Work In Restricted Working Space, Add</i>	23.29		
23 31 13 13-0847	LF	8" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	97.33		52.41
		<i>For 3" WG (Class B), Add</i>	13.10		
		<i>For 4" Or 6" WG (Class A), Add</i>	27.95		
		<i>For 10" WG (Class A), Add</i>	40.18		
		<i>For Work In Restricted Working Space, Add</i>	26.20		
23 31 13 13-0848	LF	8" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16		58.23
		<i>For 3" WG (Class B), Add</i>	14.56		
		<i>For 4" Or 6" WG (Class A), Add</i>	31.06		
		<i>For 10" WG (Class A), Add</i>	44.65		
		<i>For Work In Restricted Working Space, Add</i>	29.12		
23 31 13 13-0849	LF	8" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97		64.06
		<i>For 3" WG (Class B), Add</i>	16.02		
		<i>For 4" Or 6" WG (Class A), Add</i>	34.17		
		<i>For 10" WG (Class A), Add</i>	49.11		
		<i>For Work In Restricted Working Space, Add</i>	32.03		
23 31 13 13-0850	LF	8" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78		69.88
		<i>For 3" WG (Class B), Add</i>	17.47		
		<i>For 4" Or 6" WG (Class A), Add</i>	37.27		
		<i>For 10" WG (Class A), Add</i>	53.58		
		<i>For Work In Restricted Working Space, Add</i>	34.94		
23 31 13 13-0851	LF	8" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60		75.70
		<i>For 3" WG (Class B), Add</i>	18.93		
		<i>For 4" Or 6" WG (Class A), Add</i>	40.37		
		<i>For 10" WG (Class A), Add</i>	58.04		
		<i>For Work In Restricted Working Space, Add</i>	37.85		
23 31 13 13-0852	LF	8" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41		81.53
		<i>For 3" WG (Class B), Add</i>	20.38		
		<i>For 4" Or 6" WG (Class A), Add</i>	43.48		
		<i>For 10" WG (Class A), Add</i>	62.50		
		<i>For Work In Restricted Working Space, Add</i>	40.76		
23 31 13 13-0853	LF	8" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23		87.34
		<i>For 3" WG (Class B), Add</i>	21.84		
		<i>For 4" Or 6" WG (Class A), Add</i>	46.59		
		<i>For 10" WG (Class A), Add</i>	66.97		
		<i>For Work In Restricted Working Space, Add</i>	43.68		
23 31 13 13-0854	LF	8" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04		93.17
		<i>For 3" WG (Class B), Add</i>	23.29		
		<i>For 4" Or 6" WG (Class A), Add</i>	49.69		
		<i>For 10" WG (Class A), Add</i>	71.43		
		<i>For Work In Restricted Working Space, Add</i>	46.59		
23 31 13 13-0855	LF	10" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	108.16		58.23
		<i>For 3" WG (Class B), Add</i>	14.56		
		<i>For 4" Or 6" WG (Class A), Add</i>	31.06		
		<i>For 10" WG (Class A), Add</i>	44.65		
		<i>For Work In Restricted Working Space, Add</i>	29.12		
23 31 13 13-0856	LF	10" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	118.97		64.06
		<i>For 3" WG (Class B), Add</i>	16.02		
		<i>For 4" Or 6" WG (Class A), Add</i>	34.17		
		<i>For 10" WG (Class A), Add</i>	49.11		
		<i>For Work In Restricted Working Space, Add</i>	32.03		
23 31 13 13-0857	LF	10" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78		69.88
		<i>For 3" WG (Class B), Add</i>	17.47		
		<i>For 4" Or 6" WG (Class A), Add</i>	37.27		
		<i>For 10" WG (Class A), Add</i>	53.58		
		<i>For Work In Restricted Working Space, Add</i>	34.94		



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0858 LF 10" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60	75.70
<i>For 3" WG (Class B), Add</i>	18.93	
<i>For 4" Or 6" WG (Class A), Add</i>	40.37	
<i>For 10" WG (Class A), Add</i>	58.04	
<i>For Work In Restricted Working Space, Add</i>	37.85	
23 31 13 13-0859 LF 10" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
<i>For 3" WG (Class B), Add</i>	20.38	
<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
<i>For 10" WG (Class A), Add</i>	62.50	
<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 13-0860 LF 10" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
<i>For 10" WG (Class A), Add</i>	66.97	
<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13 13-0861 LF 10" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0862 LF 10" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
<i>For 3" WG (Class B), Add</i>	24.75	
<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
<i>For 10" WG (Class A), Add</i>	75.90	
<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13 13-0863 LF 10" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0864 LF 10" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13 13-0865 LF 10" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0866 LF 10" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13 13-0867 LF 12" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	129.78	69.88
<i>For 3" WG (Class B), Add</i>	17.47	
<i>For 4" Or 6" WG (Class A), Add</i>	37.27	
<i>For 10" WG (Class A), Add</i>	53.58	
<i>For Work In Restricted Working Space, Add</i>	34.94	
23 31 13 13-0868 LF 12" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	140.60	75.70
<i>For 3" WG (Class B), Add</i>	18.93	
<i>For 4" Or 6" WG (Class A), Add</i>	40.37	
<i>For 10" WG (Class A), Add</i>	58.04	
<i>For Work In Restricted Working Space, Add</i>	37.85	
23 31 13 13-0869 LF 12" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
<i>For 3" WG (Class B), Add</i>	20.38	
<i>For 4" Or 6" WG (Class A), Add</i>	43.48	
<i>For 10" WG (Class A), Add</i>	62.50	
<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 13-0870 LF 12" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
<i>For 3" WG (Class B), Add</i>	21.84	
<i>For 4" Or 6" WG (Class A), Add</i>	46.59	
<i>For 10" WG (Class A), Add</i>	66.97	
<i>For Work In Restricted Working Space, Add</i>	43.68	
23 31 13 13-0871 LF 12" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0872 LF 12" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
<i>For 3" WG (Class B), Add</i>	24.75	
<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
<i>For 10" WG (Class A), Add</i>	75.90	
<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13 13-0873 LF 12" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0874 LF 12" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0875 LF 12" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
For 3" WG (Class B), Add	29.12	
For 4" Or 6" WG (Class A), Add	62.12	
For 10" WG (Class A), Add	89.29	
For Work In Restricted Working Space, Add	58.23	
23 31 13 13-0876 LF 12" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
For 3" WG (Class B), Add	30.57	
For 4" Or 6" WG (Class A), Add	65.22	
For 10" WG (Class A), Add	93.76	
For Work In Restricted Working Space, Add	61.15	
23 31 13 13-0877 LF 12" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
For 3" WG (Class B), Add	32.03	
For 4" Or 6" WG (Class A), Add	68.33	
For 10" WG (Class A), Add	98.22	
For Work In Restricted Working Space, Add	64.06	
23 31 13 13-0878 LF 12" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
For 3" WG (Class B), Add	33.48	
For 4" Or 6" WG (Class A), Add	71.43	
For 10" WG (Class A), Add	102.69	
For Work In Restricted Working Space, Add	66.97	
23 31 13 13-0879 LF 12" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
For 3" WG (Class B), Add	34.94	
For 4" Or 6" WG (Class A), Add	74.54	
For 10" WG (Class A), Add	107.15	
For Work In Restricted Working Space, Add	69.88	
23 31 13 13-0880 LF 14" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	151.41	81.53
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	43.48	
For 10" WG (Class A), Add	62.50	
For Work In Restricted Working Space, Add	40.76	
23 31 13 13-0881 LF 14" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	162.23	87.34
For 3" WG (Class B), Add	21.84	
For 4" Or 6" WG (Class A), Add	46.59	
For 10" WG (Class A), Add	66.97	
For Work In Restricted Working Space, Add	43.68	
23 31 13 13-0882 LF 14" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
For 3" WG (Class B), Add	23.29	
For 4" Or 6" WG (Class A), Add	49.69	
For 10" WG (Class A), Add	71.43	
For Work In Restricted Working Space, Add	46.59	
23 31 13 13-0883 LF 14" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
For 3" WG (Class B), Add	24.75	
For 4" Or 6" WG (Class A), Add	52.80	
For 10" WG (Class A), Add	75.90	
For Work In Restricted Working Space, Add	49.50	
23 31 13 13-0884 LF 14" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
For 3" WG (Class B), Add	26.21	
For 4" Or 6" WG (Class A), Add	55.90	
For 10" WG (Class A), Add	80.36	
For Work In Restricted Working Space, Add	52.41	
23 31 13 13-0885 LF 14" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
For 3" WG (Class B), Add	27.66	
For 4" Or 6" WG (Class A), Add	59.01	
For 10" WG (Class A), Add	84.83	
For Work In Restricted Working Space, Add	55.32	
23 31 13 13-0886 LF 14" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
For 3" WG (Class B), Add	29.12	
For 4" Or 6" WG (Class A), Add	62.12	
For 10" WG (Class A), Add	89.29	
For Work In Restricted Working Space, Add	58.23	
23 31 13 13-0887 LF 14" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
For 3" WG (Class B), Add	30.57	
For 4" Or 6" WG (Class A), Add	65.22	
For 10" WG (Class A), Add	93.76	
For Work In Restricted Working Space, Add	61.15	
23 31 13 13-0888 LF 14" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
For 3" WG (Class B), Add	32.03	
For 4" Or 6" WG (Class A), Add	68.33	
For 10" WG (Class A), Add	98.22	
For Work In Restricted Working Space, Add	64.06	
23 31 13 13-0889 LF 14" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
For 3" WG (Class B), Add	33.48	
For 4" Or 6" WG (Class A), Add	71.43	
For 10" WG (Class A), Add	102.69	
For Work In Restricted Working Space, Add	66.97	
23 31 13 13-0890 LF 14" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
For 3" WG (Class B), Add	34.94	
For 4" Or 6" WG (Class A), Add	74.54	
For 10" WG (Class A), Add	107.15	
For Work In Restricted Working Space, Add	69.88	
23 31 13 13-0891 LF 14" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
For 3" WG (Class B), Add	36.40	
For 4" Or 6" WG (Class A), Add	77.64	
For 10" WG (Class A), Add	111.61	
For Work In Restricted Working Space, Add	72.79	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0892 LF 16" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	173.04	93.17
<i>For 3" WG (Class B), Add</i>	23.29	
<i>For 4" Or 6" WG (Class A), Add</i>	49.69	
<i>For 10" WG (Class A), Add</i>	71.43	
<i>For Work In Restricted Working Space, Add</i>	46.59	
23 31 13 13-0893 LF 16" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	183.86	99.00
<i>For 3" WG (Class B), Add</i>	24.75	
<i>For 4" Or 6" WG (Class A), Add</i>	52.80	
<i>For 10" WG (Class A), Add</i>	75.90	
<i>For Work In Restricted Working Space, Add</i>	49.50	
23 31 13 13-0894 LF 16" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0895 LF 16" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	
23 31 13 13-0896 LF 16" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	216.30	116.47
<i>For 3" WG (Class B), Add</i>	29.12	
<i>For 4" Or 6" WG (Class A), Add</i>	62.12	
<i>For 10" WG (Class A), Add</i>	89.29	
<i>For Work In Restricted Working Space, Add</i>	58.23	
23 31 13 13-0897 LF 16" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	227.12	122.29
<i>For 3" WG (Class B), Add</i>	30.57	
<i>For 4" Or 6" WG (Class A), Add</i>	65.22	
<i>For 10" WG (Class A), Add</i>	93.76	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 31 13 13-0898 LF 16" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
<i>For 3" WG (Class B), Add</i>	32.03	
<i>For 4" Or 6" WG (Class A), Add</i>	68.33	
<i>For 10" WG (Class A), Add</i>	98.22	
<i>For Work In Restricted Working Space, Add</i>	64.06	
23 31 13 13-0899 LF 16" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
<i>For 3" WG (Class B), Add</i>	33.48	
<i>For 4" Or 6" WG (Class A), Add</i>	71.43	
<i>For 10" WG (Class A), Add</i>	102.69	
<i>For Work In Restricted Working Space, Add</i>	66.97	
23 31 13 13-0900 LF 16" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
<i>For 3" WG (Class B), Add</i>	34.94	
<i>For 4" Or 6" WG (Class A), Add</i>	74.54	
<i>For 10" WG (Class A), Add</i>	107.15	
<i>For Work In Restricted Working Space, Add</i>	69.88	
23 31 13 13-0901 LF 16" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
<i>For 3" WG (Class B), Add</i>	36.40	
<i>For 4" Or 6" WG (Class A), Add</i>	77.64	
<i>For 10" WG (Class A), Add</i>	111.61	
<i>For Work In Restricted Working Space, Add</i>	72.79	
23 31 13 13-0902 LF 16" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
<i>For 3" WG (Class B), Add</i>	37.85	
<i>For 4" Or 6" WG (Class A), Add</i>	80.75	
<i>For 10" WG (Class A), Add</i>	116.08	
<i>For Work In Restricted Working Space, Add</i>	75.70	
23 31 13 13-0903 LF 16" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
<i>For 3" WG (Class B), Add</i>	39.31	
<i>For 4" Or 6" WG (Class A), Add</i>	83.86	
<i>For 10" WG (Class A), Add</i>	120.55	
<i>For Work In Restricted Working Space, Add</i>	78.62	
23 31 13 13-0904 LF 16" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	
23 31 13 13-0905 LF 16" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0906 LF 16" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0907 LF 18" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	194.68	104.82
<i>For 3" WG (Class B), Add</i>	26.21	
<i>For 4" Or 6" WG (Class A), Add</i>	55.90	
<i>For 10" WG (Class A), Add</i>	80.36	
<i>For Work In Restricted Working Space, Add</i>	52.41	
23 31 13 13-0908 LF 18" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	205.50	110.65
<i>For 3" WG (Class B), Add</i>	27.66	
<i>For 4" Or 6" WG (Class A), Add</i>	59.01	
<i>For 10" WG (Class A), Add</i>	84.83	
<i>For Work In Restricted Working Space, Add</i>	55.32	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 13-0909	LF 18" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	216.30 29.12 62.12 89.29 58.23	116.47
23 31 13 13-0910	LF 18" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	227.12 30.57 65.22 93.76 61.15	122.29
23 31 13 13-0911	LF 18" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	237.92 32.03 68.33 98.22 64.06	128.12
23 31 13 13-0912	LF 18" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	248.76 33.48 71.43 102.69 66.97	133.94
23 31 13 13-0913	LF 18" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	259.57 34.94 74.54 107.15 69.88	139.76
23 31 13 13-0914	LF 18" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	270.38 36.40 77.64 111.61 72.79	145.59
23 31 13 13-0915	LF 18" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	281.19 37.85 80.75 116.08 75.70	151.40
23 31 13 13-0916	LF 18" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	292.01 39.31 83.86 120.55 78.62	157.22
23 31 13 13-0917	LF 18" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	302.84 40.76 86.96 125.01 81.53	163.06
23 31 13 13-0918	LF 18" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	313.64 42.22 90.07 129.47 84.44	168.88
23 31 13 13-0919	LF 18" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	324.46 43.68 93.17 133.94 87.35	174.70
23 31 13 13-0920	LF 18" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	335.27 45.13 96.28 138.40 90.26	180.53
23 31 13 13-0921	LF 18" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	346.11 46.59 99.39 142.87 93.18	186.35
23 31 13 13-0922	LF 20" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	216.30 29.12 62.12 89.29 58.23	116.47
23 31 13 13-0923	LF 20" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	227.12 30.57 65.22 93.76 61.15	122.29
23 31 13 13-0924	LF 20" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	237.92 32.03 68.33 98.22 64.06	128.12
23 31 13 13-0925	LF 20" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	248.76 33.48 71.43 102.69 66.97	133.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0926 LF 20" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
For 3" WG (Class B), Add	34.94	
For 4" Or 6" WG (Class A), Add	74.54	
For 10" WG (Class A), Add	107.15	
For Work In Restricted Working Space, Add	69.88	
23 31 13 13-0927 LF 20" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
For 3" WG (Class B), Add	36.40	
For 4" Or 6" WG (Class A), Add	77.64	
For 10" WG (Class A), Add	111.61	
For Work In Restricted Working Space, Add	72.79	
23 31 13 13-0928 LF 20" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
For 3" WG (Class B), Add	37.85	
For 4" Or 6" WG (Class A), Add	80.75	
For 10" WG (Class A), Add	116.08	
For Work In Restricted Working Space, Add	75.70	
23 31 13 13-0929 LF 20" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
For 3" WG (Class B), Add	39.31	
For 4" Or 6" WG (Class A), Add	83.86	
For 10" WG (Class A), Add	120.55	
For Work In Restricted Working Space, Add	78.62	
23 31 13 13-0930 LF 20" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
For 3" WG (Class B), Add	40.76	
For 4" Or 6" WG (Class A), Add	86.96	
For 10" WG (Class A), Add	125.01	
For Work In Restricted Working Space, Add	81.53	
23 31 13 13-0931 LF 20" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
For 3" WG (Class B), Add	42.22	
For 4" Or 6" WG (Class A), Add	90.07	
For 10" WG (Class A), Add	129.47	
For Work In Restricted Working Space, Add	84.44	
23 31 13 13-0932 LF 20" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
For 3" WG (Class B), Add	43.68	
For 4" Or 6" WG (Class A), Add	93.17	
For 10" WG (Class A), Add	133.94	
For Work In Restricted Working Space, Add	87.35	
23 31 13 13-0933 LF 20" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
For 3" WG (Class B), Add	45.13	
For 4" Or 6" WG (Class A), Add	96.28	
For 10" WG (Class A), Add	138.40	
For Work In Restricted Working Space, Add	90.26	
23 31 13 13-0934 LF 20" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
For 3" WG (Class B), Add	46.59	
For 4" Or 6" WG (Class A), Add	99.39	
For 10" WG (Class A), Add	142.87	
For Work In Restricted Working Space, Add	93.18	
23 31 13 13-0935 LF 20" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
For 3" WG (Class B), Add	48.04	
For 4" Or 6" WG (Class A), Add	102.49	
For 10" WG (Class A), Add	147.33	
For Work In Restricted Working Space, Add	96.09	
23 31 13 13-0936 LF 20" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
For 3" WG (Class B), Add	49.50	
For 4" Or 6" WG (Class A), Add	105.60	
For 10" WG (Class A), Add	151.80	
For Work In Restricted Working Space, Add	99.00	
23 31 13 13-0937 LF 22" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	237.92	128.12
For 3" WG (Class B), Add	32.03	
For 4" Or 6" WG (Class A), Add	68.33	
For 10" WG (Class A), Add	98.22	
For Work In Restricted Working Space, Add	64.06	
23 31 13 13-0938 LF 22" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	248.76	133.94
For 3" WG (Class B), Add	33.48	
For 4" Or 6" WG (Class A), Add	71.43	
For 10" WG (Class A), Add	102.69	
For Work In Restricted Working Space, Add	66.97	
23 31 13 13-0939 LF 22" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	259.57	139.76
For 3" WG (Class B), Add	34.94	
For 4" Or 6" WG (Class A), Add	74.54	
For 10" WG (Class A), Add	107.15	
For Work In Restricted Working Space, Add	69.88	
23 31 13 13-0940 LF 22" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	270.38	145.59
For 3" WG (Class B), Add	36.40	
For 4" Or 6" WG (Class A), Add	77.64	
For 10" WG (Class A), Add	111.61	
For Work In Restricted Working Space, Add	72.79	
23 31 13 13-0941 LF 22" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
For 3" WG (Class B), Add	37.85	
For 4" Or 6" WG (Class A), Add	80.75	
For 10" WG (Class A), Add	116.08	
For Work In Restricted Working Space, Add	75.70	
23 31 13 13-0942 LF 22" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
For 3" WG (Class B), Add	39.31	
For 4" Or 6" WG (Class A), Add	83.86	
For 10" WG (Class A), Add	120.55	
For Work In Restricted Working Space, Add	78.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0943	LF 22" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	302.84 40.76 86.96 125.01 81.53	163.06
23 31	13	13-0944	LF 22" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	313.64 42.22 90.07 129.47 84.44	168.88
23 31	13	13-0945	LF 22" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	324.46 43.68 93.17 133.94 87.35	174.70
23 31	13	13-0946	LF 22" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	335.27 45.13 96.28 138.40 90.26	180.53
23 31	13	13-0947	LF 22" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	346.11 46.59 99.39 142.87 93.18	186.35
23 31	13	13-0948	LF 22" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	356.91 48.04 102.49 147.33 96.09	192.17
23 31	13	13-0949	LF 22" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	367.72 49.50 105.60 151.80 99.00	198.00
23 31	13	13-0950	LF 22" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	378.54 50.96 108.70 156.26 101.91	203.82
23 31	13	13-0951	LF 24" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	259.57 34.94 74.54 107.15 69.88	139.76
23 31	13	13-0952	LF 24" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	270.38 36.40 77.64 111.61 72.79	145.59
23 31	13	13-0953	LF 24" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	281.19 37.85 80.75 116.08 75.70	151.40
23 31	13	13-0954	LF 24" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	292.01 39.31 83.86 120.55 78.62	157.22
23 31	13	13-0955	LF 24" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	302.84 40.76 86.96 125.01 81.53	163.06
23 31	13	13-0956	LF 24" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	313.64 42.22 90.07 129.47 84.44	168.88
23 31	13	13-0957	LF 24" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	324.46 43.68 93.17 133.94 87.35	174.70
23 31	13	13-0958	LF 24" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	335.27 45.13 96.28 138.40 90.26	180.53
23 31	13	13-0959	LF 24" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork..... For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	346.11 46.59 99.39 142.87 93.18	186.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0960 LF 24" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0961 LF 24" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-0962 LF 24" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-0963 LF 24" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-0964 LF 26" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	281.19	151.40
<i>For 3" WG (Class B), Add</i>	37.85	
<i>For 4" Or 6" WG (Class A), Add</i>	80.75	
<i>For 10" WG (Class A), Add</i>	116.08	
<i>For Work In Restricted Working Space, Add</i>	75.70	
23 31 13 13-0965 LF 26" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	292.01	157.22
<i>For 3" WG (Class B), Add</i>	39.31	
<i>For 4" Or 6" WG (Class A), Add</i>	83.86	
<i>For 10" WG (Class A), Add</i>	120.55	
<i>For Work In Restricted Working Space, Add</i>	78.62	
23 31 13 13-0966 LF 26" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	
23 31 13 13-0967 LF 26" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
<i>For 3" WG (Class B), Add</i>	42.22	
<i>For 4" Or 6" WG (Class A), Add</i>	90.07	
<i>For 10" WG (Class A), Add</i>	129.47	
<i>For Work In Restricted Working Space, Add</i>	84.44	
23 31 13 13-0968 LF 26" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
<i>For 3" WG (Class B), Add</i>	43.68	
<i>For 4" Or 6" WG (Class A), Add</i>	93.17	
<i>For 10" WG (Class A), Add</i>	133.94	
<i>For Work In Restricted Working Space, Add</i>	87.35	
23 31 13 13-0969 LF 26" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
<i>For 3" WG (Class B), Add</i>	45.13	
<i>For 4" Or 6" WG (Class A), Add</i>	96.28	
<i>For 10" WG (Class A), Add</i>	138.40	
<i>For Work In Restricted Working Space, Add</i>	90.26	
23 31 13 13-0970 LF 26" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0971 LF 26" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0972 LF 26" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-0973 LF 26" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-0974 LF 26" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-0975 LF 26" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31 13 13-0976 LF 28" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	302.84	163.06
<i>For 3" WG (Class B), Add</i>	40.76	
<i>For 4" Or 6" WG (Class A), Add</i>	86.96	
<i>For 10" WG (Class A), Add</i>	125.01	
<i>For Work In Restricted Working Space, Add</i>	81.53	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0977	LF 28" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	313.64	168.88
			For 3" WG (Class B), Add	42.22	
			For 4" Or 6" WG (Class A), Add	90.07	
			For 10" WG (Class A), Add	129.47	
			For Work In Restricted Working Space, Add	84.44	
23 31	13	13-0978	LF 28" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
			For 3" WG (Class B), Add	43.68	
			For 4" Or 6" WG (Class A), Add	93.17	
			For 10" WG (Class A), Add	133.94	
			For Work In Restricted Working Space, Add	87.35	
23 31	13	13-0979	LF 28" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
			For 3" WG (Class B), Add	45.13	
			For 4" Or 6" WG (Class A), Add	96.28	
			For 10" WG (Class A), Add	138.40	
			For Work In Restricted Working Space, Add	90.26	
23 31	13	13-0980	LF 28" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
			For 3" WG (Class B), Add	46.59	
			For 4" Or 6" WG (Class A), Add	99.39	
			For 10" WG (Class A), Add	142.87	
			For Work In Restricted Working Space, Add	93.18	
23 31	13	13-0981	LF 28" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
			For 3" WG (Class B), Add	48.04	
			For 4" Or 6" WG (Class A), Add	102.49	
			For 10" WG (Class A), Add	147.33	
			For Work In Restricted Working Space, Add	96.09	
23 31	13	13-0982	LF 28" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
			For 3" WG (Class B), Add	49.50	
			For 4" Or 6" WG (Class A), Add	105.60	
			For 10" WG (Class A), Add	151.80	
			For Work In Restricted Working Space, Add	99.00	
23 31	13	13-0983	LF 28" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
			For 3" WG (Class B), Add	50.96	
			For 4" Or 6" WG (Class A), Add	108.70	
			For 10" WG (Class A), Add	156.26	
			For Work In Restricted Working Space, Add	101.91	
23 31	13	13-0984	LF 28" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
			For 3" WG (Class B), Add	52.41	
			For 4" Or 6" WG (Class A), Add	111.81	
			For 10" WG (Class A), Add	160.72	
			For Work In Restricted Working Space, Add	104.82	
23 31	13	13-0985	LF 28" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
			For 3" WG (Class B), Add	53.87	
			For 4" Or 6" WG (Class A), Add	114.92	
			For 10" WG (Class A), Add	165.19	
			For Work In Restricted Working Space, Add	107.73	
23 31	13	13-0986	LF 28" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			For 3" WG (Class B), Add	55.32	
			For 4" Or 6" WG (Class A), Add	118.02	
			For 10" WG (Class A), Add	169.66	
			For Work In Restricted Working Space, Add	110.65	
23 31	13	13-0987	LF 30" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	324.46	174.70
			For 3" WG (Class B), Add	43.68	
			For 4" Or 6" WG (Class A), Add	93.17	
			For 10" WG (Class A), Add	133.94	
			For Work In Restricted Working Space, Add	87.35	
23 31	13	13-0988	LF 30" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	335.27	180.53
			For 3" WG (Class B), Add	45.13	
			For 4" Or 6" WG (Class A), Add	96.28	
			For 10" WG (Class A), Add	138.40	
			For Work In Restricted Working Space, Add	90.26	
23 31	13	13-0989	LF 30" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
			For 3" WG (Class B), Add	46.59	
			For 4" Or 6" WG (Class A), Add	99.39	
			For 10" WG (Class A), Add	142.87	
			For Work In Restricted Working Space, Add	93.18	
23 31	13	13-0990	LF 30" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
			For 3" WG (Class B), Add	48.04	
			For 4" Or 6" WG (Class A), Add	102.49	
			For 10" WG (Class A), Add	147.33	
			For Work In Restricted Working Space, Add	96.09	
23 31	13	13-0991	LF 30" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
			For 3" WG (Class B), Add	49.50	
			For 4" Or 6" WG (Class A), Add	105.60	
			For 10" WG (Class A), Add	151.80	
			For Work In Restricted Working Space, Add	99.00	
23 31	13	13-0992	LF 30" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
			For 3" WG (Class B), Add	50.96	
			For 4" Or 6" WG (Class A), Add	108.70	
			For 10" WG (Class A), Add	156.26	
			For Work In Restricted Working Space, Add	101.91	
23 31	13	13-0993	LF 30" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
			For 3" WG (Class B), Add	52.41	
			For 4" Or 6" WG (Class A), Add	111.81	
			For 10" WG (Class A), Add	160.72	
			For Work In Restricted Working Space, Add	104.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0994 LF 30" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31 13 13-0995 LF 30" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31 13 13-0996 LF 30" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
<i>For 3" WG (Class B), Add</i>	56.78	
<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
<i>For 10" WG (Class A), Add</i>	174.12	
<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31 13 13-0997 LF 32" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	346.11	186.35
<i>For 3" WG (Class B), Add</i>	46.59	
<i>For 4" Or 6" WG (Class A), Add</i>	99.39	
<i>For 10" WG (Class A), Add</i>	142.87	
<i>For Work In Restricted Working Space, Add</i>	93.18	
23 31 13 13-0998 LF 32" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	356.91	192.17
<i>For 3" WG (Class B), Add</i>	48.04	
<i>For 4" Or 6" WG (Class A), Add</i>	102.49	
<i>For 10" WG (Class A), Add</i>	147.33	
<i>For Work In Restricted Working Space, Add</i>	96.09	
23 31 13 13-0999 LF 32" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-1000 LF 32" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-1001 LF 32" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-1002 LF 32" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31 13 13-1003 LF 32" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31 13 13-1004 LF 32" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
<i>For 3" WG (Class B), Add</i>	56.78	
<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
<i>For 10" WG (Class A), Add</i>	174.12	
<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31 13 13-1005 LF 32" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
<i>For 3" WG (Class B), Add</i>	58.23	
<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
<i>For 10" WG (Class A), Add</i>	178.59	
<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31 13 13-1006 LF 34" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	367.72	198.00
<i>For 3" WG (Class B), Add</i>	49.50	
<i>For 4" Or 6" WG (Class A), Add</i>	105.60	
<i>For 10" WG (Class A), Add</i>	151.80	
<i>For Work In Restricted Working Space, Add</i>	99.00	
23 31 13 13-1007 LF 34" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	378.54	203.82
<i>For 3" WG (Class B), Add</i>	50.96	
<i>For 4" Or 6" WG (Class A), Add</i>	108.70	
<i>For 10" WG (Class A), Add</i>	156.26	
<i>For Work In Restricted Working Space, Add</i>	101.91	
23 31 13 13-1008 LF 34" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
<i>For 3" WG (Class B), Add</i>	52.41	
<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
<i>For 10" WG (Class A), Add</i>	160.72	
<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31 13 13-1009 LF 34" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
<i>For 3" WG (Class B), Add</i>	53.87	
<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
<i>For 10" WG (Class A), Add</i>	165.19	
<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31 13 13-1010 LF 34" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
<i>For 3" WG (Class B), Add</i>	55.32	
<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
<i>For 10" WG (Class A), Add</i>	169.66	
<i>For Work In Restricted Working Space, Add</i>	110.65	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-1011	LF	34" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1012	LF	34" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1013	LF	34" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
			<i>For 3" WG (Class B), Add</i>	59.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
			<i>For 10" WG (Class A), Add</i>	183.05	
			<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31	13 13-1014	LF	36" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	389.34	209.63
			<i>For 3" WG (Class B), Add</i>	52.41	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.81	
			<i>For 10" WG (Class A), Add</i>	160.72	
			<i>For Work In Restricted Working Space, Add</i>	104.82	
23 31	13 13-1015	LF	36" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	400.18	215.46
			<i>For 3" WG (Class B), Add</i>	53.87	
			<i>For 4" Or 6" WG (Class A), Add</i>	114.92	
			<i>For 10" WG (Class A), Add</i>	165.19	
			<i>For Work In Restricted Working Space, Add</i>	107.73	
23 31	13 13-1016	LF	36" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			<i>For 3" WG (Class B), Add</i>	55.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
			<i>For 10" WG (Class A), Add</i>	169.66	
			<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31	13 13-1017	LF	36" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1018	LF	36" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1019	LF	36" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
			<i>For 3" WG (Class B), Add</i>	59.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
			<i>For 10" WG (Class A), Add</i>	183.05	
			<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31	13 13-1020	LF	36" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
			<i>For 3" WG (Class B), Add</i>	61.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
			<i>For 10" WG (Class A), Add</i>	187.51	
			<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31	13 13-1021	LF	38" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	410.99	221.28
			<i>For 3" WG (Class B), Add</i>	55.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	118.02	
			<i>For 10" WG (Class A), Add</i>	169.66	
			<i>For Work In Restricted Working Space, Add</i>	110.65	
23 31	13 13-1022	LF	38" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	421.80	227.12
			<i>For 3" WG (Class B), Add</i>	56.78	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.13	
			<i>For 10" WG (Class A), Add</i>	174.12	
			<i>For Work In Restricted Working Space, Add</i>	113.56	
23 31	13 13-1023	LF	38" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
			<i>For 3" WG (Class B), Add</i>	58.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
			<i>For 10" WG (Class A), Add</i>	178.59	
			<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31	13 13-1024	LF	38" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
			<i>For 3" WG (Class B), Add</i>	59.69	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
			<i>For 10" WG (Class A), Add</i>	183.05	
			<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31	13 13-1025	LF	38" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
			<i>For 3" WG (Class B), Add</i>	61.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
			<i>For 10" WG (Class A), Add</i>	187.51	
			<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31	13 13-1026	LF	38" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
			<i>For 3" WG (Class B), Add</i>	62.60	
			<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
			<i>For 10" WG (Class A), Add</i>	191.98	
			<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31	13 13-1027	LF	38" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
			<i>For 3" WG (Class B), Add</i>	64.06	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
			<i>For 10" WG (Class A), Add</i>	196.45	
			<i>For Work In Restricted Working Space, Add</i>	128.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1028 LF 40" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	432.61	232.94
<i>For 3" WG (Class B), Add</i>	58.23	
<i>For 4" Or 6" WG (Class A), Add</i>	124.23	
<i>For 10" WG (Class A), Add</i>	178.59	
<i>For Work In Restricted Working Space, Add</i>	116.47	
23 31 13 13-1029 LF 40" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	443.42	238.76
<i>For 3" WG (Class B), Add</i>	59.69	
<i>For 4" Or 6" WG (Class A), Add</i>	127.34	
<i>For 10" WG (Class A), Add</i>	183.05	
<i>For Work In Restricted Working Space, Add</i>	119.38	
23 31 13 13-1030 LF 40" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
<i>For 3" WG (Class B), Add</i>	61.14	
<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
<i>For 10" WG (Class A), Add</i>	187.51	
<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13 13-1031 LF 40" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
<i>For 3" WG (Class B), Add</i>	62.60	
<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
<i>For 10" WG (Class A), Add</i>	191.98	
<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31 13 13-1032 LF 40" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
<i>For 3" WG (Class B), Add</i>	64.06	
<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
<i>For 10" WG (Class A), Add</i>	196.45	
<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13 13-1033 LF 40" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
<i>For 3" WG (Class B), Add</i>	65.51	
<i>For 4" Or 6" WG (Class A), Add</i>	139.76	
<i>For 10" WG (Class A), Add</i>	200.91	
<i>For Work In Restricted Working Space, Add</i>	131.03	
23 31 13 13-1034 LF 40" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
<i>For 3" WG (Class B), Add</i>	66.97	
<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
<i>For 10" WG (Class A), Add</i>	205.37	
<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13 13-1035 LF 40" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
<i>For 3" WG (Class B), Add</i>	68.42	
<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
<i>For 10" WG (Class A), Add</i>	209.83	
<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13 13-1036 LF 40" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
<i>For 3" WG (Class B), Add</i>	69.88	
<i>For 4" Or 6" WG (Class A), Add</i>	149.08	
<i>For 10" WG (Class A), Add</i>	214.30	
<i>For Work In Restricted Working Space, Add</i>	139.76	
23 31 13 13-1037 LF 42" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	454.24	244.59
<i>For 3" WG (Class B), Add</i>	61.14	
<i>For 4" Or 6" WG (Class A), Add</i>	130.44	
<i>For 10" WG (Class A), Add</i>	187.51	
<i>For Work In Restricted Working Space, Add</i>	122.29	
23 31 13 13-1038 LF 42" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	465.06	250.41
<i>For 3" WG (Class B), Add</i>	62.60	
<i>For 4" Or 6" WG (Class A), Add</i>	133.55	
<i>For 10" WG (Class A), Add</i>	191.98	
<i>For Work In Restricted Working Space, Add</i>	125.20	
23 31 13 13-1039 LF 42" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
<i>For 3" WG (Class B), Add</i>	64.06	
<i>For 4" Or 6" WG (Class A), Add</i>	136.66	
<i>For 10" WG (Class A), Add</i>	196.45	
<i>For Work In Restricted Working Space, Add</i>	128.12	
23 31 13 13-1040 LF 42" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
<i>For 3" WG (Class B), Add</i>	65.51	
<i>For 4" Or 6" WG (Class A), Add</i>	139.76	
<i>For 10" WG (Class A), Add</i>	200.91	
<i>For Work In Restricted Working Space, Add</i>	131.03	
23 31 13 13-1041 LF 42" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
<i>For 3" WG (Class B), Add</i>	66.97	
<i>For 4" Or 6" WG (Class A), Add</i>	142.87	
<i>For 10" WG (Class A), Add</i>	205.37	
<i>For Work In Restricted Working Space, Add</i>	133.94	
23 31 13 13-1042 LF 42" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
<i>For 3" WG (Class B), Add</i>	68.42	
<i>For 4" Or 6" WG (Class A), Add</i>	145.97	
<i>For 10" WG (Class A), Add</i>	209.83	
<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13 13-1043 LF 42" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
<i>For 3" WG (Class B), Add</i>	69.88	
<i>For 4" Or 6" WG (Class A), Add</i>	149.08	
<i>For 10" WG (Class A), Add</i>	214.30	
<i>For Work In Restricted Working Space, Add</i>	139.76	
23 31 13 13-1044 LF 42" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
<i>For 3" WG (Class B), Add</i>	71.34	
<i>For 4" Or 6" WG (Class A), Add</i>	152.18	
<i>For 10" WG (Class A), Add</i>	218.76	
<i>For Work In Restricted Working Space, Add</i>	142.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1045 LF 44" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	475.89	256.23
For 3" WG (Class B), Add	64.06	
For 4" Or 6" WG (Class A), Add	136.66	
For 10" WG (Class A), Add	196.45	
For Work In Restricted Working Space, Add	128.12	
23 31 13 13-1046 LF 44" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	486.69	262.06
For 3" WG (Class B), Add	65.51	
For 4" Or 6" WG (Class A), Add	139.76	
For 10" WG (Class A), Add	200.91	
For Work In Restricted Working Space, Add	131.03	
23 31 13 13-1047 LF 44" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
For 3" WG (Class B), Add	66.97	
For 4" Or 6" WG (Class A), Add	142.87	
For 10" WG (Class A), Add	205.37	
For Work In Restricted Working Space, Add	133.94	
23 31 13 13-1048 LF 44" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
For 3" WG (Class B), Add	68.42	
For 4" Or 6" WG (Class A), Add	145.97	
For 10" WG (Class A), Add	209.83	
For Work In Restricted Working Space, Add	136.85	
23 31 13 13-1049 LF 44" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
For 3" WG (Class B), Add	69.88	
For 4" Or 6" WG (Class A), Add	149.08	
For 10" WG (Class A), Add	214.30	
For Work In Restricted Working Space, Add	139.76	
23 31 13 13-1050 LF 44" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
For 3" WG (Class B), Add	71.34	
For 4" Or 6" WG (Class A), Add	152.18	
For 10" WG (Class A), Add	218.76	
For Work In Restricted Working Space, Add	142.67	
23 31 13 13-1051 LF 44" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	
23 31 13 13-1052 LF 46" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	497.50	267.88
For 3" WG (Class B), Add	66.97	
For 4" Or 6" WG (Class A), Add	142.87	
For 10" WG (Class A), Add	205.37	
For Work In Restricted Working Space, Add	133.94	
23 31 13 13-1053 LF 46" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	508.32	273.69
For 3" WG (Class B), Add	68.42	
For 4" Or 6" WG (Class A), Add	145.97	
For 10" WG (Class A), Add	209.83	
For Work In Restricted Working Space, Add	136.85	
23 31 13 13-1054 LF 46" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
For 3" WG (Class B), Add	69.88	
For 4" Or 6" WG (Class A), Add	149.08	
For 10" WG (Class A), Add	214.30	
For Work In Restricted Working Space, Add	139.76	
23 31 13 13-1055 LF 46" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
For 3" WG (Class B), Add	71.34	
For 4" Or 6" WG (Class A), Add	152.18	
For 10" WG (Class A), Add	218.76	
For Work In Restricted Working Space, Add	142.67	
23 31 13 13-1056 LF 46" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	
23 31 13 13-1057 LF 46" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	561.29	302.82
For 3" WG (Class B), Add	75.71	
For 4" Or 6" WG (Class A), Add	161.50	
For 10" WG (Class A), Add	232.16	
For Work In Restricted Working Space, Add	151.41	
23 31 13 13-1058 LF 46" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	572.11	308.64
For 3" WG (Class B), Add	77.16	
For 4" Or 6" WG (Class A), Add	164.61	
For 10" WG (Class A), Add	236.62	
For Work In Restricted Working Space, Add	154.32	
23 31 13 13-1059 LF 48" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	519.14	279.52
For 3" WG (Class B), Add	69.88	
For 4" Or 6" WG (Class A), Add	149.08	
For 10" WG (Class A), Add	214.30	
For Work In Restricted Working Space, Add	139.76	
23 31 13 13-1060 LF 48" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	529.94	285.34
For 3" WG (Class B), Add	71.34	
For 4" Or 6" WG (Class A), Add	152.18	
For 10" WG (Class A), Add	218.76	
For Work In Restricted Working Space, Add	142.67	
23 31 13 13-1061 LF 48" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
For 3" WG (Class B), Add	72.79	
For 4" Or 6" WG (Class A), Add	155.29	
For 10" WG (Class A), Add	223.23	
For Work In Restricted Working Space, Add	145.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1062 LF 48" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	551.58	297.00
<i>For 3" WG (Class B), Add</i>	74.25	
<i>For 4" Or 6" WG (Class A), Add</i>	158.40	
<i>For 10" WG (Class A), Add</i>	227.70	
<i>For Work In Restricted Working Space, Add</i>	148.50	
23 31 13 13-1063 LF 48" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
<i>For 3" WG (Class B), Add</i>	75.71	
<i>For 4" Or 6" WG (Class A), Add</i>	161.50	
<i>For 10" WG (Class A), Add</i>	232.16	
<i>For Work In Restricted Working Space, Add</i>	151.41	
23 31 13 13-1064 LF 48" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.61	
<i>For 10" WG (Class A), Add</i>	236.62	
<i>For Work In Restricted Working Space, Add</i>	154.32	
23 31 13 13-1065 LF 48" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
<i>For 3" WG (Class B), Add</i>	78.62	
<i>For 4" Or 6" WG (Class A), Add</i>	167.71	
<i>For 10" WG (Class A), Add</i>	241.09	
<i>For Work In Restricted Working Space, Add</i>	157.23	
23 31 13 13-1066 LF 50" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	540.77	291.17
<i>For 3" WG (Class B), Add</i>	72.79	
<i>For 4" Or 6" WG (Class A), Add</i>	155.29	
<i>For 10" WG (Class A), Add</i>	223.23	
<i>For Work In Restricted Working Space, Add</i>	145.59	
23 31 13 13-1067 LF 50" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	551.58	297.00
<i>For 3" WG (Class B), Add</i>	74.25	
<i>For 4" Or 6" WG (Class A), Add</i>	158.40	
<i>For 10" WG (Class A), Add</i>	227.70	
<i>For Work In Restricted Working Space, Add</i>	148.50	
23 31 13 13-1068 LF 50" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
<i>For 3" WG (Class B), Add</i>	75.71	
<i>For 4" Or 6" WG (Class A), Add</i>	161.50	
<i>For 10" WG (Class A), Add</i>	232.16	
<i>For Work In Restricted Working Space, Add</i>	151.41	
23 31 13 13-1069 LF 50" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.61	
<i>For 10" WG (Class A), Add</i>	236.62	
<i>For Work In Restricted Working Space, Add</i>	154.32	
23 31 13 13-1070 LF 50" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
<i>For 3" WG (Class B), Add</i>	78.62	
<i>For 4" Or 6" WG (Class A), Add</i>	167.71	
<i>For 10" WG (Class A), Add</i>	241.09	
<i>For Work In Restricted Working Space, Add</i>	157.23	
23 31 13 13-1071 LF 50" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
<i>For 3" WG (Class B), Add</i>	80.07	
<i>For 4" Or 6" WG (Class A), Add</i>	170.82	
<i>For 10" WG (Class A), Add</i>	245.55	
<i>For Work In Restricted Working Space, Add</i>	160.14	
23 31 13 13-1072 LF 52" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	562.41	302.82
<i>For 3" WG (Class B), Add</i>	75.71	
<i>For 4" Or 6" WG (Class A), Add</i>	161.50	
<i>For 10" WG (Class A), Add</i>	232.16	
<i>For Work In Restricted Working Space, Add</i>	151.41	
23 31 13 13-1073 LF 52" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	573.22	308.64
<i>For 3" WG (Class B), Add</i>	77.16	
<i>For 4" Or 6" WG (Class A), Add</i>	164.61	
<i>For 10" WG (Class A), Add</i>	236.62	
<i>For Work In Restricted Working Space, Add</i>	154.32	
23 31 13 13-1074 LF 52" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
<i>For 3" WG (Class B), Add</i>	78.62	
<i>For 4" Or 6" WG (Class A), Add</i>	167.71	
<i>For 10" WG (Class A), Add</i>	241.09	
<i>For Work In Restricted Working Space, Add</i>	157.23	
23 31 13 13-1075 LF 52" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
<i>For 3" WG (Class B), Add</i>	80.07	
<i>For 4" Or 6" WG (Class A), Add</i>	170.82	
<i>For 10" WG (Class A), Add</i>	245.55	
<i>For Work In Restricted Working Space, Add</i>	160.14	
23 31 13 13-1076 LF 52" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
<i>For 3" WG (Class B), Add</i>	81.53	
<i>For 4" Or 6" WG (Class A), Add</i>	173.93	
<i>For 10" WG (Class A), Add</i>	250.02	
<i>For Work In Restricted Working Space, Add</i>	163.06	
23 31 13 13-1077 LF 54" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	584.02	314.47
<i>For 3" WG (Class B), Add</i>	78.62	
<i>For 4" Or 6" WG (Class A), Add</i>	167.71	
<i>For 10" WG (Class A), Add</i>	241.09	
<i>For Work In Restricted Working Space, Add</i>	157.23	
23 31 13 13-1078 LF 54" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	594.83	320.29
<i>For 3" WG (Class B), Add</i>	80.07	
<i>For 4" Or 6" WG (Class A), Add</i>	170.82	
<i>For 10" WG (Class A), Add</i>	245.55	
<i>For Work In Restricted Working Space, Add</i>	160.14	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-1079	LF	54" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
			<i>For 3" WG (Class B), Add</i>	81.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	173.93	
			<i>For 10" WG (Class A), Add</i>	250.02	
			<i>For Work In Restricted Working Space, Add</i>	163.06	
23 31	13 13-1080	LF	54" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	616.49	331.93
			<i>For 3" WG (Class B), Add</i>	82.98	
			<i>For 4" Or 6" WG (Class A), Add</i>	177.03	
			<i>For 10" WG (Class A), Add</i>	254.49	
			<i>For Work In Restricted Working Space, Add</i>	165.97	
23 31	13 13-1081	LF	54" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	627.29	337.75
			<i>For 3" WG (Class B), Add</i>	84.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	180.14	
			<i>For 10" WG (Class A), Add</i>	258.95	
			<i>For Work In Restricted Working Space, Add</i>	168.88	
23 31	13 13-1082	LF	54" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	638.10	343.57
			<i>For 3" WG (Class B), Add</i>	85.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.24	
			<i>For 10" WG (Class A), Add</i>	263.41	
			<i>For Work In Restricted Working Space, Add</i>	171.79	
23 31	13 13-1083	LF	56" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	605.66	326.11
			<i>For 3" WG (Class B), Add</i>	81.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	173.93	
			<i>For 10" WG (Class A), Add</i>	250.02	
			<i>For Work In Restricted Working Space, Add</i>	163.06	
23 31	13 13-1084	LF	56" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	616.49	331.93
			<i>For 3" WG (Class B), Add</i>	82.98	
			<i>For 4" Or 6" WG (Class A), Add</i>	177.03	
			<i>For 10" WG (Class A), Add</i>	254.49	
			<i>For Work In Restricted Working Space, Add</i>	165.97	
23 31	13 13-1085	LF	56" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	627.29	337.75
			<i>For 3" WG (Class B), Add</i>	84.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	180.14	
			<i>For 10" WG (Class A), Add</i>	258.95	
			<i>For Work In Restricted Working Space, Add</i>	168.88	
23 31	13 13-1086	LF	56" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	638.10	343.57
			<i>For 3" WG (Class B), Add</i>	85.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.24	
			<i>For 10" WG (Class A), Add</i>	263.41	
			<i>For Work In Restricted Working Space, Add</i>	171.79	
23 31	13 13-1087	LF	56" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	648.92	349.40
			<i>For 3" WG (Class B), Add</i>	87.35	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.35	
			<i>For 10" WG (Class A), Add</i>	267.88	
			<i>For Work In Restricted Working Space, Add</i>	174.70	
23 31	13 13-1088	LF	58" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	627.29	337.75
			<i>For 3" WG (Class B), Add</i>	84.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	180.14	
			<i>For 10" WG (Class A), Add</i>	258.95	
			<i>For Work In Restricted Working Space, Add</i>	168.88	
23 31	13 13-1089	LF	58" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	638.10	343.57
			<i>For 3" WG (Class B), Add</i>	85.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	183.24	
			<i>For 10" WG (Class A), Add</i>	263.41	
			<i>For Work In Restricted Working Space, Add</i>	171.79	
23 31	13 13-1090	LF	58" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	648.92	349.40
			<i>For 3" WG (Class B), Add</i>	87.35	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.35	
			<i>For 10" WG (Class A), Add</i>	267.88	
			<i>For Work In Restricted Working Space, Add</i>	174.70	
23 31	13 13-1091	LF	58" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	659.72	355.23
			<i>For 3" WG (Class B), Add</i>	88.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	189.45	
			<i>For 10" WG (Class A), Add</i>	272.34	
			<i>For Work In Restricted Working Space, Add</i>	177.61	
23 31	13 13-1092	LF	58" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	670.56	361.05
			<i>For 3" WG (Class B), Add</i>	90.26	
			<i>For 4" Or 6" WG (Class A), Add</i>	192.56	
			<i>For 10" WG (Class A), Add</i>	276.81	
			<i>For Work In Restricted Working Space, Add</i>	180.53	
23 31	13 13-1093	LF	60" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	648.92	349.40
			<i>For 3" WG (Class B), Add</i>	87.35	
			<i>For 4" Or 6" WG (Class A), Add</i>	186.35	
			<i>For 10" WG (Class A), Add</i>	267.88	
			<i>For Work In Restricted Working Space, Add</i>	174.70	
23 31	13 13-1094	LF	60" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	659.72	355.23
			<i>For 3" WG (Class B), Add</i>	88.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	189.45	
			<i>For 10" WG (Class A), Add</i>	272.34	
			<i>For Work In Restricted Working Space, Add</i>	177.61	
23 31	13 13-1095	LF	60" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	670.56	361.05
			<i>For 3" WG (Class B), Add</i>	90.26	
			<i>For 4" Or 6" WG (Class A), Add</i>	192.56	
			<i>For 10" WG (Class A), Add</i>	276.81	
			<i>For Work In Restricted Working Space, Add</i>	180.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1096 LF 60" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.37	366.88
<i>For 3" WG (Class B), Add</i>	91.72	
<i>For 4" Or 6" WG (Class A), Add</i>	195.67	
<i>For 10" WG (Class A), Add</i>	281.27	
<i>For Work In Restricted Working Space, Add</i>	183.44	
23 31 13 13-1097 LF 60" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	692.19	372.70
<i>For 3" WG (Class B), Add</i>	93.18	
<i>For 4" Or 6" WG (Class A), Add</i>	198.77	
<i>For 10" WG (Class A), Add</i>	285.74	
<i>For Work In Restricted Working Space, Add</i>	186.35	
23 31 13 13-1098 LF 60" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	670.56	361.05
<i>For 3" WG (Class B), Add</i>	90.26	
<i>For 4" Or 6" WG (Class A), Add</i>	192.56	
<i>For 10" WG (Class A), Add</i>	276.81	
<i>For Work In Restricted Working Space, Add</i>	180.53	
23 31 13 13-1099 LF 62" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	681.37	366.88
<i>For 3" WG (Class B), Add</i>	91.72	
<i>For 4" Or 6" WG (Class A), Add</i>	195.67	
<i>For 10" WG (Class A), Add</i>	281.27	
<i>For Work In Restricted Working Space, Add</i>	183.44	
23 31 13 13-1100 LF 62" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	692.19	372.70
<i>For 3" WG (Class B), Add</i>	93.18	
<i>For 4" Or 6" WG (Class A), Add</i>	198.77	
<i>For 10" WG (Class A), Add</i>	285.74	
<i>For Work In Restricted Working Space, Add</i>	186.35	
23 31 13 13-1101 LF 62" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	702.99	378.52
<i>For 3" WG (Class B), Add</i>	94.63	
<i>For 4" Or 6" WG (Class A), Add</i>	201.88	
<i>For 10" WG (Class A), Add</i>	290.20	
<i>For Work In Restricted Working Space, Add</i>	189.26	
23 31 13 13-1102 LF 62" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	713.80	384.35
<i>For 3" WG (Class B), Add</i>	96.09	
<i>For 4" Or 6" WG (Class A), Add</i>	204.98	
<i>For 10" WG (Class A), Add</i>	294.66	
<i>For Work In Restricted Working Space, Add</i>	192.17	
23 31 13 13-1103 LF 64" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	692.19	372.70
<i>For 3" WG (Class B), Add</i>	93.18	
<i>For 4" Or 6" WG (Class A), Add</i>	198.77	
<i>For 10" WG (Class A), Add</i>	285.74	
<i>For Work In Restricted Working Space, Add</i>	186.35	
23 31 13 13-1104 LF 64" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	702.99	378.52
<i>For 3" WG (Class B), Add</i>	94.63	
<i>For 4" Or 6" WG (Class A), Add</i>	201.88	
<i>For 10" WG (Class A), Add</i>	290.20	
<i>For Work In Restricted Working Space, Add</i>	189.26	
23 31 13 13-1105 LF 64" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	713.80	384.35
<i>For 3" WG (Class B), Add</i>	96.09	
<i>For 4" Or 6" WG (Class A), Add</i>	204.98	
<i>For 10" WG (Class A), Add</i>	294.66	
<i>For Work In Restricted Working Space, Add</i>	192.17	
23 31 13 13-1106 LF 64" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	724.62	390.16
<i>For 3" WG (Class B), Add</i>	97.54	
<i>For 4" Or 6" WG (Class A), Add</i>	208.09	
<i>For 10" WG (Class A), Add</i>	299.12	
<i>For Work In Restricted Working Space, Add</i>	195.08	
23 31 13 13-1107 LF 66" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	713.80	384.35
<i>For 3" WG (Class B), Add</i>	96.09	
<i>For 4" Or 6" WG (Class A), Add</i>	204.98	
<i>For 10" WG (Class A), Add</i>	294.66	
<i>For Work In Restricted Working Space, Add</i>	192.17	
23 31 13 13-1108 LF 66" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	724.62	390.16
<i>For 3" WG (Class B), Add</i>	97.54	
<i>For 4" Or 6" WG (Class A), Add</i>	208.09	
<i>For 10" WG (Class A), Add</i>	299.12	
<i>For Work In Restricted Working Space, Add</i>	195.08	
23 31 13 13-1109 LF 66" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	735.45	395.99
<i>For 3" WG (Class B), Add</i>	99.00	
<i>For 4" Or 6" WG (Class A), Add</i>	211.20	
<i>For 10" WG (Class A), Add</i>	303.60	
<i>For Work In Restricted Working Space, Add</i>	198.00	
23 31 13 13-1110 LF 66" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	746.26	401.81
<i>For 3" WG (Class B), Add</i>	100.45	
<i>For 4" Or 6" WG (Class A), Add</i>	214.30	
<i>For 10" WG (Class A), Add</i>	308.06	
<i>For Work In Restricted Working Space, Add</i>	200.91	
23 31 13 13-1111 LF 68" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	735.45	395.99
<i>For 3" WG (Class B), Add</i>	99.00	
<i>For 4" Or 6" WG (Class A), Add</i>	211.20	
<i>For 10" WG (Class A), Add</i>	303.60	
<i>For Work In Restricted Working Space, Add</i>	198.00	
23 31 13 13-1112 LF 68" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	746.26	401.81
<i>For 3" WG (Class B), Add</i>	100.45	
<i>For 4" Or 6" WG (Class A), Add</i>	214.30	
<i>For 10" WG (Class A), Add</i>	308.06	
<i>For Work In Restricted Working Space, Add</i>	200.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 13-1113	LF	68" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	757.07	407.63
			<i>For 3" WG (Class B), Add</i>	101.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	217.41	
			<i>For 10" WG (Class A), Add</i>	312.52	
			<i>For Work In Restricted Working Space, Add</i>	203.82	
23 31	13 13-1114	LF	68" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	767.88	413.46
			<i>For 3" WG (Class B), Add</i>	103.37	
			<i>For 4" Or 6" WG (Class A), Add</i>	220.51	
			<i>For 10" WG (Class A), Add</i>	316.99	
			<i>For Work In Restricted Working Space, Add</i>	206.73	
23 31	13 13-1115	LF	70" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	757.07	407.63
			<i>For 3" WG (Class B), Add</i>	101.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	217.41	
			<i>For 10" WG (Class A), Add</i>	312.52	
			<i>For Work In Restricted Working Space, Add</i>	203.82	
23 31	13 13-1116	LF	70" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	767.88	413.46
			<i>For 3" WG (Class B), Add</i>	103.37	
			<i>For 4" Or 6" WG (Class A), Add</i>	220.51	
			<i>For 10" WG (Class A), Add</i>	316.99	
			<i>For Work In Restricted Working Space, Add</i>	206.73	
23 31	13 13-1117	LF	70" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	778.71	419.29
			<i>For 3" WG (Class B), Add</i>	104.82	
			<i>For 4" Or 6" WG (Class A), Add</i>	223.62	
			<i>For 10" WG (Class A), Add</i>	321.45	
			<i>For Work In Restricted Working Space, Add</i>	209.64	
23 31	13 13-1118	LF	70" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	789.53	425.11
			<i>For 3" WG (Class B), Add</i>	106.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	226.73	
			<i>For 10" WG (Class A), Add</i>	325.92	
			<i>For Work In Restricted Working Space, Add</i>	212.56	
23 31	13 13-1119	LF	70" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	800.33	430.94
			<i>For 3" WG (Class B), Add</i>	107.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	229.83	
			<i>For 10" WG (Class A), Add</i>	330.38	
			<i>For Work In Restricted Working Space, Add</i>	215.47	
23 31	13 13-1120	LF	70" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	811.14	436.76
			<i>For 3" WG (Class B), Add</i>	109.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	232.93	
			<i>For 10" WG (Class A), Add</i>	334.84	
			<i>For Work In Restricted Working Space, Add</i>	218.38	
23 31	13 13-1121	LF	70" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	821.96	442.58
			<i>For 3" WG (Class B), Add</i>	110.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	236.04	
			<i>For 10" WG (Class A), Add</i>	339.31	
			<i>For Work In Restricted Working Space, Add</i>	221.29	
23 31	13 13-1122	LF	70" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	832.79	448.41
			<i>For 3" WG (Class B), Add</i>	112.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	239.15	
			<i>For 10" WG (Class A), Add</i>	343.78	
			<i>For Work In Restricted Working Space, Add</i>	224.20	
23 31	13 13-1123	LF	70" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
			<i>For 3" WG (Class B), Add</i>	113.56	
			<i>For 4" Or 6" WG (Class A), Add</i>	242.25	
			<i>For 10" WG (Class A), Add</i>	348.24	
			<i>For Work In Restricted Working Space, Add</i>	227.11	
23 31	13 13-1124	LF	72" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	778.71	419.29
			<i>For 3" WG (Class B), Add</i>	104.82	
			<i>For 4" Or 6" WG (Class A), Add</i>	223.62	
			<i>For 10" WG (Class A), Add</i>	321.45	
			<i>For Work In Restricted Working Space, Add</i>	209.64	
23 31	13 13-1125	LF	72" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	789.53	425.11
			<i>For 3" WG (Class B), Add</i>	106.28	
			<i>For 4" Or 6" WG (Class A), Add</i>	226.73	
			<i>For 10" WG (Class A), Add</i>	325.92	
			<i>For Work In Restricted Working Space, Add</i>	212.56	
23 31	13 13-1126	LF	72" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	800.33	430.94
			<i>For 3" WG (Class B), Add</i>	107.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	229.83	
			<i>For 10" WG (Class A), Add</i>	330.38	
			<i>For Work In Restricted Working Space, Add</i>	215.47	
23 31	13 13-1127	LF	72" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	811.14	436.76
			<i>For 3" WG (Class B), Add</i>	109.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	232.93	
			<i>For 10" WG (Class A), Add</i>	334.84	
			<i>For Work In Restricted Working Space, Add</i>	218.38	
23 31	13 13-1128	LF	72" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	821.96	442.58
			<i>For 3" WG (Class B), Add</i>	110.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	236.04	
			<i>For 10" WG (Class A), Add</i>	339.31	
			<i>For Work In Restricted Working Space, Add</i>	221.29	
23 31	13 13-1129	LF	72" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	832.79	448.41
			<i>For 3" WG (Class B), Add</i>	112.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	239.15	
			<i>For 10" WG (Class A), Add</i>	343.78	
			<i>For Work In Restricted Working Space, Add</i>	224.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1130 LF 72" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
<i>For 3" WG (Class B), Add</i>	113.56	
<i>For 4" Or 6" WG (Class A), Add</i>	242.25	
<i>For 10" WG (Class A), Add</i>	348.24	
<i>For Work In Restricted Working Space, Add</i>	227.11	
23 31 13 13-1131 LF 72" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
<i>For 3" WG (Class B), Add</i>	115.01	
<i>For 4" Or 6" WG (Class A), Add</i>	245.36	
<i>For 10" WG (Class A), Add</i>	352.71	
<i>For Work In Restricted Working Space, Add</i>	230.03	
23 31 13 13-1132 LF 74" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	800.33	430.94
<i>For 3" WG (Class B), Add</i>	107.73	
<i>For 4" Or 6" WG (Class A), Add</i>	229.83	
<i>For 10" WG (Class A), Add</i>	330.38	
<i>For Work In Restricted Working Space, Add</i>	215.47	
23 31 13 13-1133 LF 74" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	811.14	436.76
<i>For 3" WG (Class B), Add</i>	109.19	
<i>For 4" Or 6" WG (Class A), Add</i>	232.93	
<i>For 10" WG (Class A), Add</i>	334.84	
<i>For Work In Restricted Working Space, Add</i>	218.38	
23 31 13 13-1134 LF 74" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	821.96	442.58
<i>For 3" WG (Class B), Add</i>	110.64	
<i>For 4" Or 6" WG (Class A), Add</i>	236.04	
<i>For 10" WG (Class A), Add</i>	339.31	
<i>For Work In Restricted Working Space, Add</i>	221.29	
23 31 13 13-1135 LF 74" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	832.79	448.41
<i>For 3" WG (Class B), Add</i>	112.10	
<i>For 4" Or 6" WG (Class A), Add</i>	239.15	
<i>For 10" WG (Class A), Add</i>	343.78	
<i>For Work In Restricted Working Space, Add</i>	224.20	
23 31 13 13-1136 LF 74" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
<i>For 3" WG (Class B), Add</i>	113.56	
<i>For 4" Or 6" WG (Class A), Add</i>	242.25	
<i>For 10" WG (Class A), Add</i>	348.24	
<i>For Work In Restricted Working Space, Add</i>	227.11	
23 31 13 13-1137 LF 74" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
<i>For 3" WG (Class B), Add</i>	115.01	
<i>For 4" Or 6" WG (Class A), Add</i>	245.36	
<i>For 10" WG (Class A), Add</i>	352.71	
<i>For Work In Restricted Working Space, Add</i>	230.03	
23 31 13 13-1138 LF 74" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
<i>For 3" WG (Class B), Add</i>	116.47	
<i>For 4" Or 6" WG (Class A), Add</i>	248.46	
<i>For 10" WG (Class A), Add</i>	357.17	
<i>For Work In Restricted Working Space, Add</i>	232.94	
23 31 13 13-1139 LF 76" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	821.96	442.58
<i>For 3" WG (Class B), Add</i>	110.64	
<i>For 4" Or 6" WG (Class A), Add</i>	236.04	
<i>For 10" WG (Class A), Add</i>	339.31	
<i>For Work In Restricted Working Space, Add</i>	221.29	
23 31 13 13-1140 LF 76" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	832.79	448.41
<i>For 3" WG (Class B), Add</i>	112.10	
<i>For 4" Or 6" WG (Class A), Add</i>	239.15	
<i>For 10" WG (Class A), Add</i>	343.78	
<i>For Work In Restricted Working Space, Add</i>	224.20	
23 31 13 13-1141 LF 76" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	843.60	454.22
<i>For 3" WG (Class B), Add</i>	113.56	
<i>For 4" Or 6" WG (Class A), Add</i>	242.25	
<i>For 10" WG (Class A), Add</i>	348.24	
<i>For Work In Restricted Working Space, Add</i>	227.11	
23 31 13 13-1142 LF 76" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
<i>For 3" WG (Class B), Add</i>	115.01	
<i>For 4" Or 6" WG (Class A), Add</i>	245.36	
<i>For 10" WG (Class A), Add</i>	352.71	
<i>For Work In Restricted Working Space, Add</i>	230.03	
23 31 13 13-1143 LF 76" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
<i>For 3" WG (Class B), Add</i>	116.47	
<i>For 4" Or 6" WG (Class A), Add</i>	248.46	
<i>For 10" WG (Class A), Add</i>	357.17	
<i>For Work In Restricted Working Space, Add</i>	232.94	
23 31 13 13-1144 LF 76" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
<i>For 3" WG (Class B), Add</i>	117.92	
<i>For 4" Or 6" WG (Class A), Add</i>	251.57	
<i>For 10" WG (Class A), Add</i>	361.63	
<i>For Work In Restricted Working Space, Add</i>	235.85	
23 31 13 13-1145 LF 78" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	838.60	454.22
<i>For 3" WG (Class B), Add</i>	113.56	
<i>For 4" Or 6" WG (Class A), Add</i>	242.25	
<i>For 10" WG (Class A), Add</i>	348.24	
<i>For Work In Restricted Working Space, Add</i>	227.11	
23 31 13 13-1146 LF 78" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	854.41	460.04
<i>For 3" WG (Class B), Add</i>	115.01	
<i>For 4" Or 6" WG (Class A), Add</i>	245.36	
<i>For 10" WG (Class A), Add</i>	352.71	
<i>For Work In Restricted Working Space, Add</i>	230.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1147	LF		78" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
			<i>For 3" WG (Class B), Add</i>	116.47	
			<i>For 4" Or 6" WG (Class A), Add</i>	248.46	
			<i>For 10" WG (Class A), Add</i>	357.17	
			<i>For Work In Restricted Working Space, Add</i>	232.94	
23 31 13 13-1148	LF		78" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
			<i>For 3" WG (Class B), Add</i>	117.92	
			<i>For 4" Or 6" WG (Class A), Add</i>	251.57	
			<i>For 10" WG (Class A), Add</i>	361.63	
			<i>For Work In Restricted Working Space, Add</i>	235.85	
23 31 13 13-1149	LF		80" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
			<i>For 3" WG (Class B), Add</i>	119.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	254.68	
			<i>For 10" WG (Class A), Add</i>	366.10	
			<i>For Work In Restricted Working Space, Add</i>	238.76	
23 31 13 13-1150	LF		80" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	865.22	465.87
			<i>For 3" WG (Class B), Add</i>	116.47	
			<i>For 4" Or 6" WG (Class A), Add</i>	248.46	
			<i>For 10" WG (Class A), Add</i>	357.17	
			<i>For Work In Restricted Working Space, Add</i>	232.94	
23 31 13 13-1151	LF		80" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	876.03	471.69
			<i>For 3" WG (Class B), Add</i>	117.92	
			<i>For 4" Or 6" WG (Class A), Add</i>	251.57	
			<i>For 10" WG (Class A), Add</i>	361.63	
			<i>For Work In Restricted Working Space, Add</i>	235.85	
23 31 13 13-1152	LF		80" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
			<i>For 3" WG (Class B), Add</i>	119.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	254.68	
			<i>For 10" WG (Class A), Add</i>	366.10	
			<i>For Work In Restricted Working Space, Add</i>	238.76	
23 31 13 13-1153	LF		80" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	907.37	489.17
			<i>For 3" WG (Class B), Add</i>	122.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	260.89	
			<i>For 10" WG (Class A), Add</i>	375.02	
			<i>For Work In Restricted Working Space, Add</i>	244.58	
23 31 13 13-1154	LF		82" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	886.86	477.51
			<i>For 3" WG (Class B), Add</i>	119.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	254.68	
			<i>For 10" WG (Class A), Add</i>	366.10	
			<i>For Work In Restricted Working Space, Add</i>	238.76	
23 31 13 13-1155	LF		82" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	897.67	483.35
			<i>For 3" WG (Class B), Add</i>	120.84	
			<i>For 4" Or 6" WG (Class A), Add</i>	257.78	
			<i>For 10" WG (Class A), Add</i>	370.56	
			<i>For Work In Restricted Working Space, Add</i>	241.67	
23 31 13 13-1156	LF		82" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	908.48	489.17
			<i>For 3" WG (Class B), Add</i>	122.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	260.89	
			<i>For 10" WG (Class A), Add</i>	375.02	
			<i>For Work In Restricted Working Space, Add</i>	244.58	
23 31 13 13-1157	LF		84" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	908.48	489.17
			<i>For 3" WG (Class B), Add</i>	122.29	
			<i>For 4" Or 6" WG (Class A), Add</i>	260.89	
			<i>For 10" WG (Class A), Add</i>	375.02	
			<i>For Work In Restricted Working Space, Add</i>	244.58	
23 31 13 13-1158	LF		84" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	919.31	494.99
			<i>For 3" WG (Class B), Add</i>	123.75	
			<i>For 4" Or 6" WG (Class A), Add</i>	264.00	
			<i>For 10" WG (Class A), Add</i>	379.50	
			<i>For Work In Restricted Working Space, Add</i>	247.50	
23 31 13 13-1159	LF		86" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork.....	930.11	500.82
			<i>For 3" WG (Class B), Add</i>	125.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	267.10	
			<i>For 10" WG (Class A), Add</i>	383.96	
			<i>For Work In Restricted Working Space, Add</i>	250.41	
23 31 13 13-1160			Rework Sheet Metal Ductwork <small>(23 31 13 13)</small>		
			Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.		
23 31 13 13-1161	LF		Up To 1 SF Cross Section, Rework Existing Ductwork.....	34.45	
23 31 13 13-1162	LF		>1 To 2 SF Cross Section, Rework Existing Ductwork.....	67.18	
23 31 13 13-1163	LF		>2 To 4 SF Cross Section, Rework Existing Ductwork.....	88.77	
23 31 13 13-1164	LF		>4 To 6 SF Cross Section, Rework Existing Ductwork.....	111.17	
23 31 13 13-1165	LF		>6 To 8 SF Cross Section, Rework Existing Ductwork.....	155.04	
23 31 13 13-1166	LF		>8 To 10 SF Cross Section, Rework Existing Ductwork.....	180.87	
23 31 13 13-1167	LF		>10 To 12 SF Cross Section, Rework Existing Ductwork.....	206.71	
23 31 13 13-1168	LF		>12 To 14 SF Cross Section, Rework Existing Ductwork.....	232.55	

23 31 13 16 Round and Flat-Oval Spiral Ducts (23 31 13)



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0001	Low Pressure Round And Flat-Oval Duct <small>(23 31 13 16)</small>	Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85 or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer.		
23 31 13 16-0002	2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Ducts <small>(23 31 13 16-0001)</small>	Note: Includes straps and supports.		
23 31 13 16-0003	LF 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct		7.24	3.08
	For 3" WG (Class B), Add		0.95	
	For 4" Or 6" WG (Class A), Add		2.52	
	For 28 Gauge, Deduct		-0.13	
	For 24 Gauge, Add		0.13	
	For 22 Gauge, Add		0.26	
	For 20 Gauge, Add		0.39	
	For 18 Gauge, Add		0.52	
	For 16 Gauge, Add		0.63	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		0.70	
	For Work In Restricted Working Space, Add		1.89	
	For Elevated Installation >10' To 15', Add		0.63	
	For Elevated Installation >15' To 20', Add		1.26	
	For Elevated Installation >20' To 25', Add		1.58	
	For Elevated Installation >25' To 30', Add		2.21	
	For Elevated Installation >30' To 35', Add		2.52	
	For Elevated Installation >35' To 40', Add		3.15	
	For Elevated Installation >40', Add		3.47	
23 31 13 16-0004	LF 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct		8.20	3.50
	For 3" WG (Class B), Add		1.05	
	For 4" Or 6" WG (Class A), Add		2.80	
	For 28 Gauge, Deduct		-0.17	
	For 24 Gauge, Add		0.17	
	For 22 Gauge, Add		0.33	
	For 20 Gauge, Add		0.50	
	For 18 Gauge, Add		0.66	
	For 16 Gauge, Add		0.81	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		0.89	
	For Work In Restricted Working Space, Add		2.10	
	For Elevated Installation >10' To 15', Add		0.70	
	For Elevated Installation >15' To 20', Add		1.40	
	For Elevated Installation >20' To 25', Add		1.75	
	For Elevated Installation >25' To 30', Add		2.45	
	For Elevated Installation >30' To 35', Add		2.80	
	For Elevated Installation >35' To 40', Add		3.50	
	For Elevated Installation >40', Add		3.85	
23 31 13 16-0005	LF 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct		9.25	4.19
	For 3" WG (Class B), Add		1.18	
	For 4" Or 6" WG (Class A), Add		3.15	
	For 28 Gauge, Deduct		-0.19	
	For 24 Gauge, Add		0.19	
	For 22 Gauge, Add		0.38	
	For 20 Gauge, Add		0.57	
	For 18 Gauge, Add		0.75	
	For 16 Gauge, Add		0.92	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		1.01	
	For Work In Restricted Working Space, Add		2.36	
	For Elevated Installation >10' To 15', Add		0.79	
	For Elevated Installation >15' To 20', Add		1.58	
	For Elevated Installation >20' To 25', Add		1.97	
	For Elevated Installation >25' To 30', Add		2.76	
	For Elevated Installation >30' To 35', Add		3.15	
	For Elevated Installation >35' To 40', Add		3.94	
	For Elevated Installation >40', Add		4.33	
23 31 13 16-0006	LF 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct		10.61	4.90
	For 3" WG (Class B), Add		1.35	
	For 4" Or 6" WG (Class A), Add		3.60	
	For 28 Gauge, Deduct		-0.22	
	For 24 Gauge, Add		0.22	
	For 22 Gauge, Add		0.45	
	For 20 Gauge, Add		0.67	
	For 18 Gauge, Add		0.89	
	For 16 Gauge, Add		1.09	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add		1.20	
	For Work In Restricted Working Space, Add		2.70	
	For Elevated Installation >10' To 15', Add		0.90	
	For Elevated Installation >15' To 20', Add		1.80	
	For Elevated Installation >20' To 25', Add		2.25	
	For Elevated Installation >25' To 30', Add		3.15	
	For Elevated Installation >30' To 35', Add		3.60	
	For Elevated Installation >35' To 40', Add		4.50	
	For Elevated Installation >40', Add		4.94	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0007	LF		8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	12.30	5.60
			For 3" WG (Class B), Add	1.58	
			For 4" Or 6" WG (Class A), Add	4.20	
			For 28 Gauge, Deduct	-0.25	
			For 24 Gauge, Add	0.25	
			For 22 Gauge, Add	0.50	
			For 20 Gauge, Add	0.75	
			For 18 Gauge, Add	0.99	
			For 16 Gauge, Add	1.22	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.33	
			For Work In Restricted Working Space, Add	3.15	
			For Elevated Installation >10' To 15', Add	1.05	
			For Elevated Installation >15' To 20', Add	2.10	
			For Elevated Installation >20' To 25', Add	2.63	
			For Elevated Installation >25' To 30', Add	3.68	
			For Elevated Installation >30' To 35', Add	4.20	
			For Elevated Installation >35' To 40', Add	5.25	
			For Elevated Installation >40', Add	5.78	
23 31 13 16-0008	LF		10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	14.81	7.00
			For 3" WG (Class B), Add	1.89	
			For 4" Or 6" WG (Class A), Add	5.04	
			For 28 Gauge, Deduct	-0.31	
			For 24 Gauge, Add	0.31	
			For 22 Gauge, Add	0.61	
			For 20 Gauge, Add	0.92	
			For 18 Gauge, Add	1.22	
			For 16 Gauge, Add	1.50	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.64	
			For Work In Restricted Working Space, Add	3.78	
			For Elevated Installation >10' To 15', Add	1.26	
			For Elevated Installation >15' To 20', Add	2.52	
			For Elevated Installation >20' To 25', Add	3.15	
			For Elevated Installation >25' To 30', Add	4.41	
			For Elevated Installation >30' To 35', Add	5.04	
			For Elevated Installation >35' To 40', Add	6.30	
			For Elevated Installation >40', Add	6.92	
23 31 13 16-0009	LF		12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	18.47	9.38
			For 3" WG (Class B), Add	2.36	
			For 4" Or 6" WG (Class A), Add	6.30	
			For 28 Gauge, Deduct	-0.38	
			For 24 Gauge, Add	0.38	
			For 22 Gauge, Add	0.75	
			For 20 Gauge, Add	1.13	
			For 18 Gauge, Add	1.50	
			For 16 Gauge, Add	1.84	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.02	
			For Work In Restricted Working Space, Add	4.72	
			For Elevated Installation >10' To 15', Add	1.57	
			For Elevated Installation >15' To 20', Add	3.15	
			For Elevated Installation >20' To 25', Add	3.94	
			For Elevated Installation >25' To 30', Add	5.51	
			For Elevated Installation >30' To 35', Add	6.30	
			For Elevated Installation >35' To 40', Add	7.87	
			For Elevated Installation >40', Add	8.66	
23 31 13 16-0010	LF		14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	22.86	13.99
			For 3" WG (Class B), Add	2.95	
			For 4" Or 6" WG (Class A), Add	7.88	
			For 28 Gauge, Deduct	-0.44	
			For 24 Gauge, Add	0.44	
			For 22 Gauge, Add	0.87	
			For 20 Gauge, Add	1.31	
			For 18 Gauge, Add	1.74	
			For 16 Gauge, Add	2.14	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.35	
			For Work In Restricted Working Space, Add	5.91	
			For Elevated Installation >10' To 15', Add	1.97	
			For Elevated Installation >15' To 20', Add	3.94	
			For Elevated Installation >20' To 25', Add	4.92	
			For Elevated Installation >25' To 30', Add	6.89	
			For Elevated Installation >30' To 35', Add	7.88	
			For Elevated Installation >35' To 40', Add	9.85	
			For Elevated Installation >40', Add	10.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0011 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	30.95	18.76
For 3" WG (Class B), Add	3.94	
For 4" Or 6" WG (Class A), Add	10.50	
For 28 Gauge, Deduct	-0.65	
For 24 Gauge, Add	0.65	
For 22 Gauge, Add	1.29	
For 20 Gauge, Add	1.95	
For 18 Gauge, Add	2.59	
For 16 Gauge, Add	3.17	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.48	
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
23 31 13 16-0012 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	36.72	22.53
For 28 Gauge, Deduct	-0.72	
For 24 Gauge, Add	0.72	
For 22 Gauge, Add	1.44	
For 20 Gauge, Add	2.16	
For 18 Gauge, Add	2.87	
For 16 Gauge, Add	3.52	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.86	
For Work In Restricted Working Space, Add	9.45	
For Elevated Installation >10' To 15', Add	3.15	
For Elevated Installation >15' To 20', Add	6.30	
For Elevated Installation >20' To 25', Add	7.88	
For Elevated Installation >25' To 30', Add	11.03	
For Elevated Installation >30' To 35', Add	12.60	
For Elevated Installation >35' To 40', Add	15.75	
For Elevated Installation >40', Add	17.33	
23 31 13 16-0013 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct	42.22	26.03
For 28 Gauge, Deduct	-0.81	
For 24 Gauge, Add	0.80	
For 22 Gauge, Add	1.60	
For 20 Gauge, Add	2.41	
For 18 Gauge, Add	3.20	
For 16 Gauge, Add	3.93	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.31	
For Work In Restricted Working Space, Add	10.92	
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.28	
For Elevated Installation >20' To 25', Add	9.10	
For Elevated Installation >25' To 30', Add	12.74	
For Elevated Installation >30' To 35', Add	14.56	
For Elevated Installation >35' To 40', Add	18.20	
For Elevated Installation >40', Add	20.02	
23 31 13 16-0014 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows <small>(23 31 13 16-0001)</small>		
Note: Up to 90 degree.		
23 31 13 16-0015 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	41.80	18.69
For 3" WG (Class B), Add	5.61	
For 4" Or 6" WG (Class A), Add	14.95	
For 28 Gauge, Deduct	-0.61	
For 24 Gauge, Add	0.61	
For 22 Gauge, Add	1.22	
For 20 Gauge, Add	1.83	
For 18 Gauge, Add	2.44	
For 16 Gauge, Add	2.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.28	
For Work In Restricted Working Space, Add	11.21	
For Elevated Installation >10' To 15', Add	3.74	
For Elevated Installation >15' To 20', Add	7.47	
For Elevated Installation >20' To 25', Add	9.34	
For Elevated Installation >25' To 30', Add	13.08	
For Elevated Installation >30' To 35', Add	14.95	
For Elevated Installation >35' To 40', Add	18.69	
For Elevated Installation >40', Add	20.55	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT
UNIT COSTDEMOLITION
UNIT COST

23 31 13 16-0016	EA	5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	47.94	21.56
		For 3" WG (Class B), Add	6.47	
		For 4" Or 6" WG (Class A), Add	17.25	
		For 28 Gauge, Deduct	-0.67	
		For 24 Gauge, Add	0.67	
		For 22 Gauge, Add	1.33	
		For 20 Gauge, Add	2.00	
		For 18 Gauge, Add	2.65	
		For 16 Gauge, Add	3.25	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.57	
		For Work In Restricted Working Space, Add	12.94	
		For Elevated Installation >10' To 15', Add	4.31	
		For Elevated Installation >15' To 20', Add	8.62	
		For Elevated Installation >20' To 25', Add	10.78	
		For Elevated Installation >25' To 30', Add	15.09	
		For Elevated Installation >30' To 35', Add	17.25	
		For Elevated Installation >35' To 40', Add	21.56	
		For Elevated Installation >40', Add	23.72	
23 31 13 16-0017	EA	6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	56.37	25.47
		For 3" WG (Class B), Add	7.64	
		For 4" Or 6" WG (Class A), Add	20.38	
		For 28 Gauge, Deduct	-0.75	
		For 24 Gauge, Add	0.75	
		For 22 Gauge, Add	1.49	
		For 20 Gauge, Add	2.24	
		For 18 Gauge, Add	2.98	
		For 16 Gauge, Add	3.66	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.01	
		For Work In Restricted Working Space, Add	15.29	
		For Elevated Installation >10' To 15', Add	5.10	
		For Elevated Installation >15' To 20', Add	10.19	
		For Elevated Installation >20' To 25', Add	12.74	
		For Elevated Installation >25' To 30', Add	17.83	
		For Elevated Installation >30' To 35', Add	20.38	
		For Elevated Installation >35' To 40', Add	25.48	
		For Elevated Installation >40', Add	28.02	
23 31 13 16-0018	EA	7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	72.17	32.75
		For 3" WG (Class B), Add	9.83	
		For 4" Or 6" WG (Class A), Add	26.20	
		For 28 Gauge, Deduct	-0.92	
		For 24 Gauge, Add	0.92	
		For 22 Gauge, Add	1.83	
		For 20 Gauge, Add	2.76	
		For 18 Gauge, Add	3.66	
		For 16 Gauge, Add	4.50	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.93	
		For Work In Restricted Working Space, Add	19.65	
		For Elevated Installation >10' To 15', Add	6.55	
		For Elevated Installation >15' To 20', Add	13.10	
		For Elevated Installation >20' To 25', Add	16.38	
		For Elevated Installation >25' To 30', Add	22.93	
		For Elevated Installation >30' To 35', Add	26.20	
		For Elevated Installation >35' To 40', Add	32.76	
		For Elevated Installation >40', Add	36.03	
23 31 13 16-0019	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	86.97	39.90
		For 3" WG (Class B), Add	11.97	
		For 4" Or 6" WG (Class A), Add	31.91	
		For 28 Gauge, Deduct	-1.00	
		For 24 Gauge, Add	0.99	
		For 22 Gauge, Add	1.98	
		For 20 Gauge, Add	2.98	
		For 18 Gauge, Add	3.95	
		For 16 Gauge, Add	4.85	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.32	
		For Work In Restricted Working Space, Add	23.93	
		For Elevated Installation >10' To 15', Add	7.98	
		For Elevated Installation >15' To 20', Add	15.96	
		For Elevated Installation >20' To 25', Add	19.95	
		For Elevated Installation >25' To 30', Add	27.92	
		For Elevated Installation >30' To 35', Add	31.91	
		For Elevated Installation >35' To 40', Add	39.89	
		For Elevated Installation >40', Add	43.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0020 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	134.07	62.29
For 3" WG (Class B), Add	18.69	
For 4" Or 6" WG (Class A), Add	49.83	
For 28 Gauge, Deduct	-1.31	
For 24 Gauge, Add	1.31	
For 22 Gauge, Add	2.61	
For 20 Gauge, Add	3.93	
For 18 Gauge, Add	5.22	
For 16 Gauge, Add	6.41	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.02	
For Work In Restricted Working Space, Add	37.37	
For Elevated Installation >10' To 15', Add	12.46	
For Elevated Installation >15' To 20', Add	24.92	
For Elevated Installation >20' To 25', Add	31.15	
For Elevated Installation >25' To 30', Add	43.60	
For Elevated Installation >30' To 35', Add	49.83	
For Elevated Installation >35' To 40', Add	62.29	
For Elevated Installation >40', Add	68.52	
23 31 13 16-0021 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	185.03	86.08
For 3" WG (Class B), Add	25.83	
For 4" Or 6" WG (Class A), Add	68.87	
For 28 Gauge, Deduct	-1.78	
For 24 Gauge, Add	1.77	
For 22 Gauge, Add	3.54	
For 20 Gauge, Add	5.32	
For 18 Gauge, Add	7.07	
For 16 Gauge, Add	8.68	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.52	
For Work In Restricted Working Space, Add	51.65	
For Elevated Installation >10' To 15', Add	17.22	
For Elevated Installation >15' To 20', Add	34.43	
For Elevated Installation >20' To 25', Add	43.04	
For Elevated Installation >25' To 30', Add	60.26	
For Elevated Installation >30' To 35', Add	68.87	
For Elevated Installation >35' To 40', Add	86.09	
For Elevated Installation >40', Add	94.69	
23 31 13 16-0022 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	223.37	101.83
For 3" WG (Class B), Add	30.55	
For 4" Or 6" WG (Class A), Add	81.46	
For 28 Gauge, Deduct	-2.73	
For 24 Gauge, Add	2.72	
For 22 Gauge, Add	5.43	
For 20 Gauge, Add	8.16	
For 18 Gauge, Add	10.84	
For 16 Gauge, Add	13.30	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.59	
For Work In Restricted Working Space, Add	61.10	
For Elevated Installation >10' To 15', Add	20.37	
For Elevated Installation >15' To 20', Add	40.73	
For Elevated Installation >20' To 25', Add	50.92	
For Elevated Installation >25' To 30', Add	71.28	
For Elevated Installation >30' To 35', Add	81.46	
For Elevated Installation >35' To 40', Add	101.83	
For Elevated Installation >40', Add	112.01	
23 31 13 16-0023 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	252.21	111.97
For 3" WG (Class B), Add	33.59	
For 4" Or 6" WG (Class A), Add	89.58	
For 28 Gauge, Deduct	-3.91	
For 24 Gauge, Add	3.90	
For 22 Gauge, Add	7.78	
For 20 Gauge, Add	11.70	
For 18 Gauge, Add	15.54	
For 16 Gauge, Add	19.07	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.91	
For Work In Restricted Working Space, Add	67.19	
For Elevated Installation >10' To 15', Add	22.40	
For Elevated Installation >15' To 20', Add	44.79	
For Elevated Installation >20' To 25', Add	55.99	
For Elevated Installation >25' To 30', Add	78.39	
For Elevated Installation >30' To 35', Add	89.58	
For Elevated Installation >35' To 40', Add	111.98	
For Elevated Installation >40', Add	123.18	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0024	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	275.35	116.53
			For 3" WG (Class B), Add	34.96	
			For 4" Or 6" WG (Class A), Add	93.22	
			For 28 Gauge, Deduct	-5.86	
			For 24 Gauge, Add	5.84	
			For 22 Gauge, Add	11.65	
			For 20 Gauge, Add	17.51	
			For 18 Gauge, Add	23.27	
			For 16 Gauge, Add	28.55	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.30	
			For Work In Restricted Working Space, Add	69.92	
			For Elevated Installation >10' To 15', Add	23.31	
			For Elevated Installation >15' To 20', Add	46.61	
			For Elevated Installation >20' To 25', Add	58.26	
			For Elevated Installation >25' To 30', Add	81.57	
			For Elevated Installation >30' To 35', Add	93.22	
			For Elevated Installation >35' To 40', Add	116.53	
			For Elevated Installation >40', Add	128.18	
			For 10" WG (Class A), Add	107.20	
23 31 13 16-0025	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	297.15	120.37
			For 3" WG (Class B), Add	36.11	
			For 4" Or 6" WG (Class A), Add	96.30	
			For 28 Gauge, Deduct	-7.81	
			For 24 Gauge, Add	7.78	
			For 22 Gauge, Add	15.54	
			For 20 Gauge, Add	23.35	
			For 18 Gauge, Add	31.02	
			For 16 Gauge, Add	38.07	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	41.74	
			For Work In Restricted Working Space, Add	72.23	
			For Elevated Installation >10' To 15', Add	24.08	
			For Elevated Installation >15' To 20', Add	48.15	
			For Elevated Installation >20' To 25', Add	60.19	
			For Elevated Installation >25' To 30', Add	84.26	
			For Elevated Installation >30' To 35', Add	96.30	
			For Elevated Installation >35' To 40', Add	120.38	
			For Elevated Installation >40', Add	132.41	
			For 10" WG (Class A), Add	110.75	
23 31 13 16-0026			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows <small>(23 31 13 16-0001)</small>		
23 31 13 16-0027	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	35.22	12.59
			For 3" WG (Class B), Add	4.73	
			For 4" Or 6" WG (Class A), Add	12.60	
			For 28 Gauge, Deduct	-0.52	
			For 24 Gauge, Add	0.51	
			For 22 Gauge, Add	1.02	
			For 20 Gauge, Add	1.54	
			For 18 Gauge, Add	2.05	
			For 16 Gauge, Add	2.51	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.75	
			For Work In Restricted Working Space, Add	9.45	
			For Elevated Installation >10' To 15', Add	3.15	
			For Elevated Installation >15' To 20', Add	6.30	
			For Elevated Installation >20' To 25', Add	7.88	
			For Elevated Installation >25' To 30', Add	11.03	
			For Elevated Installation >30' To 35', Add	12.60	
			For Elevated Installation >35' To 40', Add	15.75	
			For Elevated Installation >40', Add	17.33	
23 31 13 16-0028	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	40.23	14.42
			For 3" WG (Class B), Add	5.40	
			For 4" Or 6" WG (Class A), Add	14.40	
			For 28 Gauge, Deduct	-0.59	
			For 24 Gauge, Add	0.59	
			For 22 Gauge, Add	1.17	
			For 20 Gauge, Add	1.76	
			For 18 Gauge, Add	2.33	
			For 16 Gauge, Add	2.86	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.14	
			For Work In Restricted Working Space, Add	10.80	
			For Elevated Installation >10' To 15', Add	3.60	
			For Elevated Installation >15' To 20', Add	7.20	
			For Elevated Installation >20' To 25', Add	9.00	
			For Elevated Installation >25' To 30', Add	12.60	
			For Elevated Installation >30' To 35', Add	14.40	
			For Elevated Installation >35' To 40', Add	18.00	
			For Elevated Installation >40', Add	19.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0029 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	46.82	16.80
For 3" WG (Class B), Add	6.30	
For 4" Or 6" WG (Class A), Add	16.80	
For 28 Gauge, Deduct	-0.67	
For 24 Gauge, Add	0.67	
For 22 Gauge, Add	1.33	
For 20 Gauge, Add	2.00	
For 18 Gauge, Add	2.66	
For 16 Gauge, Add	3.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.57	
For Work In Restricted Working Space, Add	12.60	
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.40	
For Elevated Installation >20' To 25', Add	10.50	
For Elevated Installation >25' To 30', Add	14.70	
For Elevated Installation >30' To 35', Add	16.80	
For Elevated Installation >35' To 40', Add	21.00	
For Elevated Installation >40', Add	23.09	
23 31 13 16-0030 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	55.51	20.16
For 3" WG (Class B), Add	7.56	
For 4" Or 6" WG (Class A), Add	20.16	
For 28 Gauge, Deduct	-0.71	
For 24 Gauge, Add	0.71	
For 22 Gauge, Add	1.41	
For 20 Gauge, Add	2.12	
For 18 Gauge, Add	2.82	
For 16 Gauge, Add	3.46	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.79	
For Work In Restricted Working Space, Add	15.12	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.64	
For Elevated Installation >30' To 35', Add	20.16	
For Elevated Installation >35' To 40', Add	25.20	
For Elevated Installation >40', Add	27.71	
23 31 13 16-0031 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	68.92	25.20
For 3" WG (Class B), Add	9.45	
For 4" Or 6" WG (Class A), Add	25.19	
For 28 Gauge, Deduct	-0.82	
For 24 Gauge, Add	0.82	
For 22 Gauge, Add	1.64	
For 20 Gauge, Add	2.46	
For 18 Gauge, Add	3.27	
For 16 Gauge, Add	4.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.40	
For Work In Restricted Working Space, Add	18.89	
For Elevated Installation >10' To 15', Add	6.30	
For Elevated Installation >15' To 20', Add	12.60	
For Elevated Installation >20' To 25', Add	15.75	
For Elevated Installation >25' To 30', Add	22.04	
For Elevated Installation >30' To 35', Add	25.19	
For Elevated Installation >35' To 40', Add	31.49	
For Elevated Installation >40', Add	34.64	
23 31 13 16-0032 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	92.48	33.59
For 3" WG (Class B), Add	12.60	
For 4" Or 6" WG (Class A), Add	33.60	
For 28 Gauge, Deduct	-1.18	
For 24 Gauge, Add	1.17	
For 22 Gauge, Add	2.34	
For 20 Gauge, Add	3.51	
For 18 Gauge, Add	4.67	
For 16 Gauge, Add	5.73	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.28	
For Work In Restricted Working Space, Add	25.20	
For Elevated Installation >10' To 15', Add	8.40	
For Elevated Installation >15' To 20', Add	16.80	
For Elevated Installation >20' To 25', Add	21.00	
For Elevated Installation >25' To 30', Add	29.40	
For Elevated Installation >30' To 35', Add	33.60	
For Elevated Installation >35' To 40', Add	42.00	
For Elevated Installation >40', Add	46.19	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0033	EA		12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	137.21	50.39
			<i>For 3" WG (Class B), Add</i>	18.90	
			<i>For 4" Or 6" WG (Class A), Add</i>	50.39	
			<i>For 28 Gauge, Deduct</i>	-1.56	
			<i>For 24 Gauge, Add</i>	1.55	
			<i>For 22 Gauge, Add</i>	3.09	
			<i>For 20 Gauge, Add</i>	4.65	
			<i>For 18 Gauge, Add</i>	6.18	
			<i>For 16 Gauge, Add</i>	7.58	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.31	
			<i>For Work In Restricted Working Space, Add</i>	37.79	
			<i>For Elevated Installation >10' To 15', Add</i>	12.60	
			<i>For Elevated Installation >15' To 20', Add</i>	25.20	
			<i>For Elevated Installation >20' To 25', Add</i>	31.50	
			<i>For Elevated Installation >25' To 30', Add</i>	44.09	
			<i>For Elevated Installation >30' To 35', Add</i>	50.39	
			<i>For Elevated Installation >35' To 40', Add</i>	62.99	
			<i>For Elevated Installation >40', Add</i>	69.29	
23 31 13 16-0034	EA		14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	181.99	64.39
			<i>For 3" WG (Class B), Add</i>	24.15	
			<i>For 4" Or 6" WG (Class A), Add</i>	64.39	
			<i>For 28 Gauge, Deduct</i>	-2.91	
			<i>For 24 Gauge, Add</i>	2.90	
			<i>For 22 Gauge, Add</i>	5.79	
			<i>For 20 Gauge, Add</i>	8.70	
			<i>For 18 Gauge, Add</i>	11.56	
			<i>For 16 Gauge, Add</i>	14.19	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	15.55	
			<i>For Work In Restricted Working Space, Add</i>	48.29	
			<i>For Elevated Installation >10' To 15', Add</i>	16.10	
			<i>For Elevated Installation >15' To 20', Add</i>	32.19	
			<i>For Elevated Installation >20' To 25', Add</i>	40.24	
			<i>For Elevated Installation >25' To 30', Add</i>	56.34	
			<i>For Elevated Installation >30' To 35', Add</i>	64.39	
			<i>For Elevated Installation >35' To 40', Add</i>	80.49	
			<i>For Elevated Installation >40', Add</i>	88.53	
23 31 13 16-0035	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	228.68	81.18
			<i>For 3" WG (Class B), Add</i>	30.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	81.18	
			<i>For 28 Gauge, Deduct</i>	-3.56	
			<i>For 24 Gauge, Add</i>	3.55	
			<i>For 22 Gauge, Add</i>	7.09	
			<i>For 20 Gauge, Add</i>	10.65	
			<i>For 18 Gauge, Add</i>	14.15	
			<i>For 16 Gauge, Add</i>	17.36	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.03	
			<i>For Work In Restricted Working Space, Add</i>	60.89	
			<i>For Elevated Installation >10' To 15', Add</i>	20.30	
			<i>For Elevated Installation >15' To 20', Add</i>	40.59	
			<i>For Elevated Installation >20' To 25', Add</i>	50.74	
			<i>For Elevated Installation >25' To 30', Add</i>	71.04	
			<i>For Elevated Installation >30' To 35', Add</i>	81.18	
			<i>For Elevated Installation >35' To 40', Add</i>	101.48	
			<i>For Elevated Installation >40', Add</i>	111.63	
23 31 13 16-0036	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	251.31	84.68
			<i>For 3" WG (Class B), Add</i>	31.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	84.54	
			<i>For 28 Gauge, Deduct</i>	-5.53	
			<i>For 24 Gauge, Add</i>	5.51	
			<i>For 22 Gauge, Add</i>	11.01	
			<i>For 20 Gauge, Add</i>	16.54	
			<i>For 18 Gauge, Add</i>	21.97	
			<i>For 16 Gauge, Add</i>	26.97	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	29.56	
			<i>For Work In Restricted Working Space, Add</i>	63.41	
			<i>For Elevated Installation >10' To 15', Add</i>	21.14	
			<i>For Elevated Installation >15' To 20', Add</i>	42.27	
			<i>For Elevated Installation >20' To 25', Add</i>	52.84	
			<i>For Elevated Installation >25' To 30', Add</i>	73.98	
			<i>For Elevated Installation >30' To 35', Add</i>	84.54	
			<i>For Elevated Installation >35' To 40', Add</i>	105.68	
			<i>For Elevated Installation >40', Add</i>	116.25	
			<i>For 10" WG (Class A), Add</i>	97.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0037 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	270.21	86.78
<i>For 3" WG (Class B), Add</i>	32.54	
<i>For 4" Or 6" WG (Class A), Add</i>	86.78	
<i>For 28 Gauge, Deduct</i>	-7.38	
<i>For 24 Gauge, Add</i>	7.35	
<i>For 22 Gauge, Add</i>	14.67	
<i>For 20 Gauge, Add</i>	22.05	
<i>For 18 Gauge, Add</i>	29.29	
<i>For 16 Gauge, Add</i>	35.95	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	39.41	
<i>For Work In Restricted Working Space, Add</i>	65.09	
<i>For Elevated Installation >10' To 15', Add</i>	21.70	
<i>For Elevated Installation >15' To 20', Add</i>	43.39	
<i>For Elevated Installation >20' To 25', Add</i>	54.24	
<i>For Elevated Installation >25' To 30', Add</i>	75.93	
<i>For Elevated Installation >30' To 35', Add</i>	86.78	
<i>For Elevated Installation >35' To 40', Add</i>	108.48	
<i>For Elevated Installation >40', Add</i>	119.32	
<i>For 10" WG (Class A), Add</i>	99.80	
23 31 13 16-0038 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows <small>(23 31 13 16-0001)</small>		
23 31 13 16-0039 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	33.84	12.59
<i>For 3" WG (Class B), Add</i>	4.73	
<i>For 4" Or 6" WG (Class A), Add</i>	12.60	
<i>For 28 Gauge, Deduct</i>	-0.32	
<i>For 24 Gauge, Add</i>	0.32	
<i>For 22 Gauge, Add</i>	0.64	
<i>For 20 Gauge, Add</i>	0.97	
<i>For 18 Gauge, Add</i>	1.29	
<i>For 16 Gauge, Add</i>	1.58	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	1.73	
<i>For Work In Restricted Working Space, Add</i>	9.45	
<i>For Elevated Installation >10' To 15', Add</i>	3.15	
<i>For Elevated Installation >15' To 20', Add</i>	6.30	
<i>For Elevated Installation >20' To 25', Add</i>	7.88	
<i>For Elevated Installation >25' To 30', Add</i>	11.03	
<i>For Elevated Installation >30' To 35', Add</i>	12.60	
<i>For Elevated Installation >35' To 40', Add</i>	15.75	
<i>For Elevated Installation >40', Add</i>	17.33	
23 31 13 16-0040 EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	38.99	14.42
<i>For 3" WG (Class B), Add</i>	5.40	
<i>For 4" Or 6" WG (Class A), Add</i>	14.40	
<i>For 28 Gauge, Deduct</i>	-0.42	
<i>For 24 Gauge, Add</i>	0.41	
<i>For 22 Gauge, Add</i>	0.83	
<i>For 20 Gauge, Add</i>	1.24	
<i>For 18 Gauge, Add</i>	1.65	
<i>For 16 Gauge, Add</i>	2.03	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.22	
<i>For Work In Restricted Working Space, Add</i>	10.80	
<i>For Elevated Installation >10' To 15', Add</i>	3.60	
<i>For Elevated Installation >15' To 20', Add</i>	7.20	
<i>For Elevated Installation >20' To 25', Add</i>	9.00	
<i>For Elevated Installation >25' To 30', Add</i>	12.60	
<i>For Elevated Installation >30' To 35', Add</i>	14.40	
<i>For Elevated Installation >35' To 40', Add</i>	18.00	
<i>For Elevated Installation >40', Add</i>	19.79	
23 31 13 16-0041 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	45.27	16.80
<i>For 3" WG (Class B), Add</i>	6.30	
<i>For 4" Or 6" WG (Class A), Add</i>	16.80	
<i>For 28 Gauge, Deduct</i>	-0.45	
<i>For 24 Gauge, Add</i>	0.45	
<i>For 22 Gauge, Add</i>	0.90	
<i>For 20 Gauge, Add</i>	1.36	
<i>For 18 Gauge, Add</i>	1.80	
<i>For 16 Gauge, Add</i>	2.21	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.43	
<i>For Work In Restricted Working Space, Add</i>	12.60	
<i>For Elevated Installation >10' To 15', Add</i>	4.20	
<i>For Elevated Installation >15' To 20', Add</i>	8.40	
<i>For Elevated Installation >20' To 25', Add</i>	10.50	
<i>For Elevated Installation >25' To 30', Add</i>	14.70	
<i>For Elevated Installation >30' To 35', Add</i>	16.80	
<i>For Elevated Installation >35' To 40', Add</i>	21.00	
<i>For Elevated Installation >40', Add</i>	23.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0042	EA		7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	54.19	20.16
			For 3" WG (Class B), Add	7.56	
			For 4" Or 6" WG (Class A), Add	20.16	
			For 28 Gauge, Deduct	-0.53	
			For 24 Gauge, Add	0.52	
			For 22 Gauge, Add	1.05	
			For 20 Gauge, Add	1.57	
			For 18 Gauge, Add	2.09	
			For 16 Gauge, Add	2.57	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.81	
			For Work In Restricted Working Space, Add	15.12	
			For Elevated Installation >10' To 15', Add	5.04	
			For Elevated Installation >15' To 20', Add	10.08	
			For Elevated Installation >20' To 25', Add	12.60	
			For Elevated Installation >25' To 30', Add	17.64	
			For Elevated Installation >30' To 35', Add	20.16	
			For Elevated Installation >35' To 40', Add	25.20	
			For Elevated Installation >40', Add	27.71	
23 31 13 16-0043	EA		8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	67.30	25.20
			For 3" WG (Class B), Add	9.45	
			For 4" Or 6" WG (Class A), Add	25.19	
			For 28 Gauge, Deduct	-0.60	
			For 24 Gauge, Add	0.60	
			For 22 Gauge, Add	1.19	
			For 20 Gauge, Add	1.79	
			For 18 Gauge, Add	2.38	
			For 16 Gauge, Add	2.92	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.20	
			For Work In Restricted Working Space, Add	18.89	
			For Elevated Installation >10' To 15', Add	6.30	
			For Elevated Installation >15' To 20', Add	12.60	
			For Elevated Installation >20' To 25', Add	15.75	
			For Elevated Installation >25' To 30', Add	22.04	
			For Elevated Installation >30' To 35', Add	25.19	
			For Elevated Installation >35' To 40', Add	31.49	
			For Elevated Installation >40', Add	34.64	
23 31 13 16-0044	EA		10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	90.58	33.59
			For 3" WG (Class B), Add	12.60	
			For 4" Or 6" WG (Class A), Add	33.60	
			For 28 Gauge, Deduct	-0.91	
			For 24 Gauge, Add	0.91	
			For 22 Gauge, Add	1.82	
			For 20 Gauge, Add	2.73	
			For 18 Gauge, Add	3.62	
			For 16 Gauge, Add	4.45	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.88	
			For Work In Restricted Working Space, Add	25.20	
			For Elevated Installation >10' To 15', Add	8.40	
			For Elevated Installation >15' To 20', Add	16.80	
			For Elevated Installation >20' To 25', Add	21.00	
			For Elevated Installation >25' To 30', Add	29.40	
			For Elevated Installation >30' To 35', Add	33.60	
			For Elevated Installation >35' To 40', Add	42.00	
			For Elevated Installation >40', Add	46.19	
23 31 13 16-0045	EA		12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	134.47	50.39
			For 3" WG (Class B), Add	18.90	
			For 4" Or 6" WG (Class A), Add	50.39	
			For 28 Gauge, Deduct	-1.18	
			For 24 Gauge, Add	1.17	
			For 22 Gauge, Add	2.34	
			For 20 Gauge, Add	3.51	
			For 18 Gauge, Add	4.67	
			For 16 Gauge, Add	5.73	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.28	
			For Work In Restricted Working Space, Add	37.79	
			For Elevated Installation >10' To 15', Add	12.60	
			For Elevated Installation >15' To 20', Add	25.20	
			For Elevated Installation >20' To 25', Add	31.50	
			For Elevated Installation >25' To 30', Add	44.09	
			For Elevated Installation >30' To 35', Add	50.39	
			For Elevated Installation >35' To 40', Add	62.99	
			For Elevated Installation >40', Add	69.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0046 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	175.66	64.39
For 3" WG (Class B), Add	24.15	
For 4" Or 6" WG (Class A), Add	64.39	
For 28 Gauge, Deduct	-2.03	
For 24 Gauge, Add	2.03	
For 22 Gauge, Add	4.05	
For 20 Gauge, Add	6.08	
For 18 Gauge, Add	8.08	
For 16 Gauge, Add	9.92	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.87	
For Work In Restricted Working Space, Add	48.29	
For Elevated Installation >10' To 15', Add	16.10	
For Elevated Installation >15' To 20', Add	32.19	
For Elevated Installation >20' To 25', Add	40.24	
For Elevated Installation >25' To 30', Add	56.34	
For Elevated Installation >30' To 35', Add	64.39	
For Elevated Installation >35' To 40', Add	80.49	
For Elevated Installation >40', Add	88.53	
23 31 13 16-0047 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	227.05	81.18
For 3" WG (Class B), Add	30.44	
For 4" Or 6" WG (Class A), Add	81.18	
For 28 Gauge, Deduct	-3.34	
For 24 Gauge, Add	3.32	
For 22 Gauge, Add	6.64	
For 20 Gauge, Add	9.97	
For 18 Gauge, Add	13.25	
For 16 Gauge, Add	16.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.83	
For Work In Restricted Working Space, Add	60.89	
For Elevated Installation >10' To 15', Add	20.30	
For Elevated Installation >15' To 20', Add	40.59	
For Elevated Installation >20' To 25', Add	50.74	
For Elevated Installation >25' To 30', Add	71.04	
For Elevated Installation >30' To 35', Add	81.18	
For Elevated Installation >35' To 40', Add	101.48	
For Elevated Installation >40', Add	111.63	
23 31 13 16-0048 EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	240.47	84.68
For 3" WG (Class B), Add	31.70	
For 4" Or 6" WG (Class A), Add	84.54	
For 28 Gauge, Deduct	-4.03	
For 24 Gauge, Add	4.02	
For 22 Gauge, Add	8.02	
For 20 Gauge, Add	12.05	
For 18 Gauge, Add	16.01	
For 16 Gauge, Add	19.65	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.54	
For Work In Restricted Working Space, Add	63.41	
For Elevated Installation >10' To 15', Add	21.14	
For Elevated Installation >15' To 20', Add	42.27	
For Elevated Installation >20' To 25', Add	52.84	
For Elevated Installation >25' To 30', Add	73.98	
For Elevated Installation >30' To 35', Add	84.54	
For Elevated Installation >35' To 40', Add	105.68	
For Elevated Installation >40', Add	116.25	
For 10" WG (Class A), Add	97.23	
23 31 13 16-0049 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	254.25	86.78
For 3" WG (Class B), Add	32.54	
For 4" Or 6" WG (Class A), Add	86.78	
For 28 Gauge, Deduct	-5.17	
For 24 Gauge, Add	5.15	
For 22 Gauge, Add	10.28	
For 20 Gauge, Add	15.44	
For 18 Gauge, Add	20.52	
For 16 Gauge, Add	25.18	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.60	
For Work In Restricted Working Space, Add	65.09	
For Elevated Installation >10' To 15', Add	21.70	
For Elevated Installation >15' To 20', Add	43.39	
For Elevated Installation >20' To 25', Add	54.24	
For Elevated Installation >25' To 30', Add	75.93	
For Elevated Installation >30' To 35', Add	86.78	
For Elevated Installation >35' To 40', Add	108.48	
For Elevated Installation >40', Add	119.32	
For 10" WG (Class A), Add	99.80	
23 31 13 16-0050 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tees <small>(23 31 13 16-0001)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0051	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	52.45	18.89
			<i>For 3" WG (Class B), Add</i>	7.09	
			<i>For 4" Or 6" WG (Class A), Add</i>	18.90	
			<i>For 28 Gauge, Deduct</i>	-0.72	
			<i>For 24 Gauge, Add</i>	0.72	
			<i>For 22 Gauge, Add</i>	1.44	
			<i>For 20 Gauge, Add</i>	2.16	
			<i>For 18 Gauge, Add</i>	2.87	
			<i>For 16 Gauge, Add</i>	3.52	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.86	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
			<i>For Elevated Installation >10' To 15', Add</i>	4.72	
			<i>For Elevated Installation >15' To 20', Add</i>	9.45	
			<i>For Elevated Installation >20' To 25', Add</i>	11.81	
			<i>For Elevated Installation >25' To 30', Add</i>	16.53	
			<i>For Elevated Installation >30' To 35', Add</i>	18.90	
			<i>For Elevated Installation >35' To 40', Add</i>	23.62	
			<i>For Elevated Installation >40', Add</i>	25.98	
23 31 13 16-0052	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	60.91	21.56
			<i>For 3" WG (Class B), Add</i>	8.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.60	
			<i>For 28 Gauge, Deduct</i>	-0.96	
			<i>For 24 Gauge, Add</i>	0.95	
			<i>For 22 Gauge, Add</i>	1.91	
			<i>For 20 Gauge, Add</i>	2.86	
			<i>For 18 Gauge, Add</i>	3.81	
			<i>For 16 Gauge, Add</i>	4.67	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.12	
			<i>For Work In Restricted Working Space, Add</i>	16.20	
			<i>For Elevated Installation >10' To 15', Add</i>	5.40	
			<i>For Elevated Installation >15' To 20', Add</i>	10.80	
			<i>For Elevated Installation >20' To 25', Add</i>	13.50	
			<i>For Elevated Installation >25' To 30', Add</i>	18.90	
			<i>For Elevated Installation >30' To 35', Add</i>	21.60	
			<i>For Elevated Installation >35' To 40', Add</i>	27.00	
			<i>For Elevated Installation >40', Add</i>	29.69	
23 31 13 16-0053	EA		6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	70.49	25.20
			<i>For 3" WG (Class B), Add</i>	9.45	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.19	
			<i>For 28 Gauge, Deduct</i>	-1.04	
			<i>For 24 Gauge, Add</i>	1.04	
			<i>For 22 Gauge, Add</i>	2.07	
			<i>For 20 Gauge, Add</i>	3.11	
			<i>For 18 Gauge, Add</i>	4.13	
			<i>For 16 Gauge, Add</i>	5.07	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.56	
			<i>For Work In Restricted Working Space, Add</i>	18.89	
			<i>For Elevated Installation >10' To 15', Add</i>	6.30	
			<i>For Elevated Installation >15' To 20', Add</i>	12.60	
			<i>For Elevated Installation >20' To 25', Add</i>	15.75	
			<i>For Elevated Installation >25' To 30', Add</i>	22.04	
			<i>For Elevated Installation >30' To 35', Add</i>	25.19	
			<i>For Elevated Installation >35' To 40', Add</i>	31.49	
			<i>For Elevated Installation >40', Add</i>	34.64	
23 31 13 16-0054	EA		7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	84.22	30.23
			<i>For 3" WG (Class B), Add</i>	11.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.23	
			<i>For 28 Gauge, Deduct</i>	-1.20	
			<i>For 24 Gauge, Add</i>	1.19	
			<i>For 22 Gauge, Add</i>	2.38	
			<i>For 20 Gauge, Add</i>	3.58	
			<i>For 18 Gauge, Add</i>	4.75	
			<i>For 16 Gauge, Add</i>	5.83	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.39	
			<i>For Work In Restricted Working Space, Add</i>	22.67	
			<i>For Elevated Installation >10' To 15', Add</i>	7.56	
			<i>For Elevated Installation >15' To 20', Add</i>	15.12	
			<i>For Elevated Installation >20' To 25', Add</i>	18.90	
			<i>For Elevated Installation >25' To 30', Add</i>	26.45	
			<i>For Elevated Installation >30' To 35', Add</i>	30.23	
			<i>For Elevated Installation >35' To 40', Add</i>	37.79	
			<i>For Elevated Installation >40', Add</i>	41.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0055 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	108.46	37.79
For 3" WG (Class B), Add	14.17	
For 4" Or 6" WG (Class A), Add	37.80	
For 28 Gauge, Deduct	-1.93	
For 24 Gauge, Add	1.93	
For 22 Gauge, Add	3.85	
For 20 Gauge, Add	5.78	
For 18 Gauge, Add	7.68	
For 16 Gauge, Add	9.43	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.34	
For Work In Restricted Working Space, Add	28.35	
For Elevated Installation >10' To 15', Add	9.45	
For Elevated Installation >15' To 20', Add	18.90	
For Elevated Installation >20' To 25', Add	23.62	
For Elevated Installation >25' To 30', Add	33.07	
For Elevated Installation >30' To 35', Add	37.80	
For Elevated Installation >35' To 40', Add	47.25	
For Elevated Installation >40', Add	51.97	
23 31 13 16-0056 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	143.80	50.39
For 3" WG (Class B), Add	18.90	
For 4" Or 6" WG (Class A), Add	50.39	
For 28 Gauge, Deduct	-2.47	
For 24 Gauge, Add	2.46	
For 22 Gauge, Add	4.91	
For 20 Gauge, Add	7.38	
For 18 Gauge, Add	9.80	
For 16 Gauge, Add	12.03	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.19	
For Work In Restricted Working Space, Add	37.79	
For Elevated Installation >10' To 15', Add	12.60	
For Elevated Installation >15' To 20', Add	25.20	
For Elevated Installation >20' To 25', Add	31.50	
For Elevated Installation >25' To 30', Add	44.09	
For Elevated Installation >30' To 35', Add	50.39	
For Elevated Installation >35' To 40', Add	62.99	
For Elevated Installation >40', Add	69.29	
23 31 13 16-0057 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	206.75	75.59
For 3" WG (Class B), Add	28.34	
For 4" Or 6" WG (Class A), Add	75.57	
For 28 Gauge, Deduct	-2.47	
For 24 Gauge, Add	2.46	
For 22 Gauge, Add	4.91	
For 20 Gauge, Add	7.38	
For 18 Gauge, Add	9.80	
For 16 Gauge, Add	12.03	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.19	
For Work In Restricted Working Space, Add	56.68	
For Elevated Installation >10' To 15', Add	18.89	
For Elevated Installation >15' To 20', Add	37.79	
For Elevated Installation >20' To 25', Add	47.23	
For Elevated Installation >25' To 30', Add	66.13	
For Elevated Installation >30' To 35', Add	75.57	
For Elevated Installation >35' To 40', Add	94.47	
For Elevated Installation >40', Add	103.91	
23 31 13 16-0058 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	275.27	96.30
For 3" WG (Class B), Add	36.20	
For 4" Or 6" WG (Class A), Add	96.53	
For 28 Gauge, Deduct	-4.70	
For 24 Gauge, Add	4.68	
For 22 Gauge, Add	9.35	
For 20 Gauge, Add	14.05	
For 18 Gauge, Add	18.67	
For 16 Gauge, Add	22.91	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.12	
For Work In Restricted Working Space, Add	72.40	
For Elevated Installation >10' To 15', Add	24.13	
For Elevated Installation >15' To 20', Add	48.27	
For Elevated Installation >20' To 25', Add	60.33	
For Elevated Installation >25' To 30', Add	84.47	
For Elevated Installation >30' To 35', Add	96.53	
For Elevated Installation >35' To 40', Add	120.67	
For Elevated Installation >40', Add	132.73	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0059	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	351.93	122.05
			<i>For 3" WG (Class B), Add</i>	45.64	
			<i>For 4" Or 6" WG (Class A), Add</i>	121.71	
			<i>For 28 Gauge, Deduct</i>	-6.60	
			<i>For 24 Gauge, Add</i>	6.58	
			<i>For 22 Gauge, Add</i>	13.13	
			<i>For 20 Gauge, Add</i>	19.73	
			<i>For 18 Gauge, Add</i>	26.21	
			<i>For 16 Gauge, Add</i>	32.16	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	35.26	
			<i>For Work In Restricted Working Space, Add</i>	91.28	
			<i>For Elevated Installation >10' To 15', Add</i>	30.43	
			<i>For Elevated Installation >15' To 20', Add</i>	60.86	
			<i>For Elevated Installation >20' To 25', Add</i>	76.07	
			<i>For Elevated Installation >25' To 30', Add</i>	106.50	
			<i>For Elevated Installation >30' To 35', Add</i>	121.71	
			<i>For Elevated Installation >35' To 40', Add</i>	152.14	
			<i>For Elevated Installation >40', Add</i>	167.35	
23 31 13 16-0060	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	400.84	135.77
			<i>For 3" WG (Class B), Add</i>	51.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.05	
			<i>For 28 Gauge, Deduct</i>	-8.41	
			<i>For 24 Gauge, Add</i>	8.38	
			<i>For 22 Gauge, Add</i>	16.73	
			<i>For 20 Gauge, Add</i>	25.13	
			<i>For 18 Gauge, Add</i>	33.39	
			<i>For 16 Gauge, Add</i>	40.98	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	44.93	
			<i>For Work In Restricted Working Space, Add</i>	102.04	
			<i>For Elevated Installation >10' To 15', Add</i>	34.01	
			<i>For Elevated Installation >15' To 20', Add</i>	68.03	
			<i>For Elevated Installation >20' To 25', Add</i>	85.03	
			<i>For Elevated Installation >25' To 30', Add</i>	119.05	
			<i>For Elevated Installation >30' To 35', Add</i>	136.05	
			<i>For Elevated Installation >35' To 40', Add</i>	170.07	
			<i>For Elevated Installation >40', Add</i>	187.07	
			<i>For 10" WG (Class A), Add</i>	156.46	
23 31 13 16-0061	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	418.69	140.67
			<i>For 3" WG (Class B), Add</i>	52.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	140.53	
			<i>For 28 Gauge, Deduct</i>	-9.33	
			<i>For 24 Gauge, Add</i>	9.30	
			<i>For 22 Gauge, Add</i>	18.56	
			<i>For 20 Gauge, Add</i>	27.89	
			<i>For 18 Gauge, Add</i>	37.05	
			<i>For 16 Gauge, Add</i>	45.47	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	49.85	
			<i>For Work In Restricted Working Space, Add</i>	105.40	
			<i>For Elevated Installation >10' To 15', Add</i>	35.13	
			<i>For Elevated Installation >15' To 20', Add</i>	70.27	
			<i>For Elevated Installation >20' To 25', Add</i>	87.83	
			<i>For Elevated Installation >25' To 30', Add</i>	122.97	
			<i>For Elevated Installation >30' To 35', Add</i>	140.53	
			<i>For Elevated Installation >35' To 40', Add</i>	175.67	
			<i>For Elevated Installation >40', Add</i>	193.23	
			<i>For 10" WG (Class A), Add</i>	161.61	
23 31 13 16-0062 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connectors					
<i>(23 31 13 16-0001)</i>					
23 31 13 16-0063	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	24.14	
			<i>For 3" WG (Class B), Add</i>	3.36	
			<i>For 4" Or 6" WG (Class A), Add</i>	8.96	
			<i>For Work In Restricted Working Space, Add</i>	6.72	
			<i>For Elevated Installation >10' To 15', Add</i>	2.24	
			<i>For Elevated Installation >15' To 20', Add</i>	4.48	
			<i>For Elevated Installation >20' To 25', Add</i>	5.60	
			<i>For Elevated Installation >25' To 30', Add</i>	7.84	
			<i>For Elevated Installation >30' To 35', Add</i>	8.96	
			<i>For Elevated Installation >35' To 40', Add</i>	11.20	
			<i>For Elevated Installation >40', Add</i>	12.31	
23 31 13 16-0064	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	25.42	
			<i>For 3" WG (Class B), Add</i>	3.53	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.42	
			<i>For Work In Restricted Working Space, Add</i>	7.06	
			<i>For Elevated Installation >10' To 15', Add</i>	2.35	
			<i>For Elevated Installation >15' To 20', Add</i>	4.71	
			<i>For Elevated Installation >20' To 25', Add</i>	5.89	
			<i>For Elevated Installation >25' To 30', Add</i>	8.24	
			<i>For Elevated Installation >30' To 35', Add</i>	9.42	
			<i>For Elevated Installation >35' To 40', Add</i>	11.77	
			<i>For Elevated Installation >40', Add</i>	12.95	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0065 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	27.22	
For 3" WG (Class B), Add	3.78	
For 4" Or 6" WG (Class A), Add	10.08	
For Work In Restricted Working Space, Add	7.56	
For Elevated Installation >10' To 15', Add	2.52	
For Elevated Installation >15' To 20', Add	5.04	
For Elevated Installation >20' To 25', Add	6.30	
For Elevated Installation >25' To 30', Add	8.82	
For Elevated Installation >30' To 35', Add	10.08	
For Elevated Installation >35' To 40', Add	12.60	
For Elevated Installation >40', Add	13.86	
23 31 13 16-0066 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	28.91	
For 3" WG (Class B), Add	3.99	
For 4" Or 6" WG (Class A), Add	10.64	
For Work In Restricted Working Space, Add	7.98	
For Elevated Installation >10' To 15', Add	2.66	
For Elevated Installation >15' To 20', Add	5.32	
For Elevated Installation >20' To 25', Add	6.65	
For Elevated Installation >25' To 30', Add	9.31	
For Elevated Installation >30' To 35', Add	10.64	
For Elevated Installation >35' To 40', Add	13.30	
For Elevated Installation >40', Add	14.63	
23 31 13 16-0067 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	31.30	
For 3" WG (Class B), Add	4.30	
For 4" Or 6" WG (Class A), Add	11.48	
For Work In Restricted Working Space, Add	8.61	
For Elevated Installation >10' To 15', Add	2.87	
For Elevated Installation >15' To 20', Add	5.74	
For Elevated Installation >20' To 25', Add	7.17	
For Elevated Installation >25' To 30', Add	10.04	
For Elevated Installation >30' To 35', Add	11.48	
For Elevated Installation >35' To 40', Add	14.35	
For Elevated Installation >40', Add	15.78	
23 31 13 16-0068 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	36.16	
For 3" WG (Class B), Add	4.81	
For 4" Or 6" WG (Class A), Add	12.82	
For Work In Restricted Working Space, Add	9.62	
For Elevated Installation >10' To 15', Add	3.21	
For Elevated Installation >15' To 20', Add	6.41	
For Elevated Installation >20' To 25', Add	8.01	
For Elevated Installation >25' To 30', Add	11.22	
For Elevated Installation >30' To 35', Add	12.82	
For Elevated Installation >35' To 40', Add	16.03	
For Elevated Installation >40', Add	17.63	
23 31 13 16-0069 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	49.76	
For 3" WG (Class B), Add	6.72	
For 4" Or 6" WG (Class A), Add	17.92	
For Work In Restricted Working Space, Add	13.44	
For Elevated Installation >10' To 15', Add	4.48	
For Elevated Installation >15' To 20', Add	8.96	
For Elevated Installation >20' To 25', Add	11.20	
For Elevated Installation >25' To 30', Add	15.68	
For Elevated Installation >30' To 35', Add	17.92	
For Elevated Installation >35' To 40', Add	22.40	
For Elevated Installation >40', Add	24.64	
23 31 13 16-0070 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	56.74	
For 3" WG (Class B), Add	7.65	
For 4" Or 6" WG (Class A), Add	20.39	
For Work In Restricted Working Space, Add	15.29	
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.19	
For Elevated Installation >20' To 25', Add	12.74	
For Elevated Installation >25' To 30', Add	17.84	
For Elevated Installation >30' To 35', Add	20.39	
For Elevated Installation >35' To 40', Add	25.49	
For Elevated Installation >40', Add	28.03	
23 31 13 16-0071 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	62.32	
For 3" WG (Class B), Add	8.38	
For 4" Or 6" WG (Class A), Add	22.34	
For Work In Restricted Working Space, Add	16.76	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.17	
For Elevated Installation >20' To 25', Add	13.97	
For Elevated Installation >25' To 30', Add	19.55	
For Elevated Installation >30' To 35', Add	22.34	
For Elevated Installation >35' To 40', Add	27.93	
For Elevated Installation >40', Add	30.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0072	EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	67.69	
	For 3" WG (Class B), Add	9.07	
	For 4" Or 6" WG (Class A), Add	24.19	
	For Work In Restricted Working Space, Add	18.14	
	For Elevated Installation >10' To 15', Add	6.05	
	For Elevated Installation >15' To 20', Add	12.09	
	For Elevated Installation >20' To 25', Add	15.12	
	For Elevated Installation >25' To 30', Add	21.16	
	For Elevated Installation >30' To 35', Add	24.19	
	For Elevated Installation >35' To 40', Add	30.24	
	For Elevated Installation >40', Add	33.26	
	For 10" WG (Class A), Add	27.82	
23 31 13 16-0073	EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	73.76	
	For 3" WG (Class B), Add	9.89	
	For 4" Or 6" WG (Class A), Add	26.37	
	For Work In Restricted Working Space, Add	19.78	
	For Elevated Installation >10' To 15', Add	6.59	
	For Elevated Installation >15' To 20', Add	13.19	
	For Elevated Installation >20' To 25', Add	16.48	
	For Elevated Installation >25' To 30', Add	23.08	
	For Elevated Installation >30' To 35', Add	26.37	
	For Elevated Installation >35' To 40', Add	32.97	
	For Elevated Installation >40', Add	36.26	
	For 10" WG (Class A), Add	30.33	
23 31 13 16-0074	Slip Joint, Galvanized, Spiral Duct And Fittings <small>(23 31 13 16)</small>		
23 31 13 16-0075	Slip Joint, Galvanized, Spiral Duct <small>(23 31 13 16-0074)</small>		
23 31 13 16-0076	LF 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	9.01	1.29
	For 3" WG (Class B), Add	1.04	
	For 4" Or 6" WG (Class A), Add	2.77	
	For 24 Gauge, Add	0.42	
	For 22 Gauge, Add	0.96	
	For 20 Gauge, Add	1.57	
	For 18 Gauge, Add	2.40	
	For 16 Gauge, Add	2.93	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.55	
	For Work In Restricted Working Space, Add	2.08	
23 31 13 16-0077	LF 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	11.32	2.59
	For 3" WG (Class B), Add	1.25	
	For 4" Or 6" WG (Class A), Add	3.32	
	For 24 Gauge, Add	0.60	
	For 22 Gauge, Add	1.39	
	For 20 Gauge, Add	2.27	
	For 18 Gauge, Add	3.47	
	For 16 Gauge, Add	4.23	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.23	
	For Work In Restricted Working Space, Add	2.49	
23 31 13 16-0078	LF 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	14.26	2.59
	For 3" WG (Class B), Add	1.54	
	For 4" Or 6" WG (Class A), Add	4.12	
	For 24 Gauge, Add	0.79	
	For 22 Gauge, Add	1.83	
	For 20 Gauge, Add	2.98	
	For 18 Gauge, Add	4.57	
	For 16 Gauge, Add	5.56	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.94	
	For Work In Restricted Working Space, Add	3.09	
23 31 13 16-0079	LF 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	17.28	2.59
	For 3" WG (Class B), Add	1.86	
	For 4" Or 6" WG (Class A), Add	4.95	
	For 24 Gauge, Add	0.98	
	For 22 Gauge, Add	2.26	
	For 20 Gauge, Add	3.68	
	For 18 Gauge, Add	5.65	
	For 16 Gauge, Add	6.87	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.63	
	For Work In Restricted Working Space, Add	3.71	
23 31 13 16-0080	LF 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	21.53	3.87
	For 3" WG (Class B), Add	2.32	
	For 4" Or 6" WG (Class A), Add	6.20	
	For 24 Gauge, Add	1.21	
	For 22 Gauge, Add	2.78	
	For 20 Gauge, Add	4.53	
	For 18 Gauge, Add	6.95	
	For 16 Gauge, Add	8.46	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.47	
	For Work In Restricted Working Space, Add	4.65	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0081 LF 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	26.35	3.87
For 3" WG (Class B), Add	2.90	
For 4" Or 6" WG (Class A), Add	7.74	
For 24 Gauge, Add	1.40	
For 22 Gauge, Add	3.22	
For 20 Gauge, Add	5.24	
For 18 Gauge, Add	8.04	
For 16 Gauge, Add	9.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.17	
For Work In Restricted Working Space, Add	5.81	
23 31 13 16-0082 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	35.94	3.87
For 3" WG (Class B), Add	3.87	
For 4" Or 6" WG (Class A), Add	10.31	
For 24 Gauge, Add	2.03	
For 22 Gauge, Add	4.67	
For 20 Gauge, Add	7.62	
For 18 Gauge, Add	11.68	
For 16 Gauge, Add	14.22	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.52	
For Work In Restricted Working Space, Add	7.73	
23 31 13 16-0083 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	41.31	5.16
For 3" WG (Class B), Add	4.51	
For 4" Or 6" WG (Class A), Add	12.02	
For 24 Gauge, Add	2.25	
For 22 Gauge, Add	5.18	
For 20 Gauge, Add	8.45	
For 18 Gauge, Add	12.95	
For 16 Gauge, Add	15.76	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.33	
For Work In Restricted Working Space, Add	9.02	
23 31 13 16-0084 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	46.68	5.16
For 3" WG (Class B), Add	5.12	
For 4" Or 6" WG (Class A), Add	13.65	
For 24 Gauge, Add	2.51	
For 22 Gauge, Add	5.78	
For 20 Gauge, Add	9.42	
For 18 Gauge, Add	14.44	
For 16 Gauge, Add	17.58	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.29	
For Work In Restricted Working Space, Add	10.24	
23 31 13 16-0085 LF 22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	52.32	6.45
For 3" WG (Class B), Add	5.76	
For 4" Or 6" WG (Class A), Add	15.37	
For 24 Gauge, Add	2.78	
For 22 Gauge, Add	6.39	
For 20 Gauge, Add	10.42	
For 18 Gauge, Add	15.97	
For 16 Gauge, Add	19.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.28	
For Work In Restricted Working Space, Add	11.53	
23 31 13 16-0086 LF 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct	58.10	7.75
For 3" WG (Class B), Add	6.45	
For 4" Or 6" WG (Class A), Add	17.20	
For 24 Gauge, Add	3.02	
For 22 Gauge, Add	6.94	
For 20 Gauge, Add	11.32	
For 18 Gauge, Add	17.35	
For 16 Gauge, Add	21.13	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.17	
For Work In Restricted Working Space, Add	12.90	
23 31 13 16-0087 Slip Joint, Galvanized, Spiral 90 Degree Elbows <small>(23 31 13 16-0074)</small>		
23 31 13 16-0088 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	78.27	18.07
For 3" WG (Class B), Add	10.46	
For 4" Or 6" WG (Class A), Add	27.90	
For 24 Gauge, Add	1.70	
For 22 Gauge, Add	3.91	
For 20 Gauge, Add	6.38	
For 18 Gauge, Add	9.79	
For 16 Gauge, Add	11.91	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.30	
For Work In Restricted Working Space, Add	20.93	
23 31 13 16-0089 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	115.32	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	2.42	
For 22 Gauge, Add	5.56	
For 20 Gauge, Add	9.06	
For 18 Gauge, Add	13.89	
For 16 Gauge, Add	16.91	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.94	
For Work In Restricted Working Space, Add	30.97	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 16-0090	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	158.90	33.56
			For 3" WG (Class B), Add	20.38	
			For 4" Or 6" WG (Class A), Add	54.34	
			For 24 Gauge, Add	4.61	
			For 22 Gauge, Add	10.60	
			For 20 Gauge, Add	17.28	
			For 18 Gauge, Add	26.50	
			For 16 Gauge, Add	32.26	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.05	
			For Work In Restricted Working Space, Add	40.76	
23 31	13 16-0091	EA	10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	199.21	42.59
			For 3" WG (Class B), Add	25.81	
			For 4" Or 6" WG (Class A), Add	68.83	
			For 24 Gauge, Add	5.43	
			For 22 Gauge, Add	12.48	
			For 20 Gauge, Add	20.35	
			For 18 Gauge, Add	31.20	
			For 16 Gauge, Add	37.98	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.08	
			For Work In Restricted Working Space, Add	51.62	
23 31	13 16-0092	EA	12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	246.96	54.21
			For 3" WG (Class B), Add	32.27	
			For 4" Or 6" WG (Class A), Add	86.04	
			For 24 Gauge, Add	6.37	
			For 22 Gauge, Add	14.66	
			For 20 Gauge, Add	23.90	
			For 18 Gauge, Add	36.64	
			For 16 Gauge, Add	44.60	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	23.58	
			For Work In Restricted Working Space, Add	64.53	
23 31	13 16-0093	EA	14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	270.11	59.37
			For 3" WG (Class B), Add	35.20	
			For 4" Or 6" WG (Class A), Add	93.86	
			For 24 Gauge, Add	7.09	
			For 22 Gauge, Add	16.31	
			For 20 Gauge, Add	26.60	
			For 18 Gauge, Add	40.78	
			For 16 Gauge, Add	49.64	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.24	
			For Work In Restricted Working Space, Add	70.40	
23 31	13 16-0094	EA	16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	319.05	69.69
			For 3" WG (Class B), Add	41.63	
			For 4" Or 6" WG (Class A), Add	111.02	
			For 24 Gauge, Add	8.30	
			For 22 Gauge, Add	19.09	
			For 20 Gauge, Add	31.13	
			For 18 Gauge, Add	47.73	
			For 16 Gauge, Add	58.10	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.71	
			For Work In Restricted Working Space, Add	83.27	
23 31	13 16-0095	EA	18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	391.92	86.47
			For 3" WG (Class B), Add	51.62	
			For 4" Or 6" WG (Class A), Add	137.66	
			For 24 Gauge, Add	9.55	
			For 22 Gauge, Add	21.97	
			For 20 Gauge, Add	35.82	
			For 18 Gauge, Add	54.92	
			For 16 Gauge, Add	66.86	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.34	
			For Work In Restricted Working Space, Add	103.25	
23 31	13 16-0096	EA	20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	472.69	104.54
			For 3" WG (Class B), Add	62.45	
			For 4" Or 6" WG (Class A), Add	166.53	
			For 24 Gauge, Add	11.27	
			For 22 Gauge, Add	25.93	
			For 20 Gauge, Add	42.28	
			For 18 Gauge, Add	64.83	
			For 16 Gauge, Add	78.92	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	41.71	
			For Work In Restricted Working Space, Add	124.90	
23 31	13 16-0097	EA	22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	550.99	121.32
			For 3" WG (Class B), Add	73.05	
			For 4" Or 6" WG (Class A), Add	194.80	
			For 24 Gauge, Add	12.80	
			For 22 Gauge, Add	29.43	
			For 20 Gauge, Add	47.99	
			For 18 Gauge, Add	73.58	
			For 16 Gauge, Add	89.57	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	47.35	
			For Work In Restricted Working Space, Add	146.10	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
HVAC Ducts and Casings	23 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0098 EA 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	628.15	138.09
For 3" WG (Class B), Add	82.38	
For 4" Or 6" WG (Class A), Add	219.68	
For 24 Gauge, Add	15.79	
For 22 Gauge, Add	36.32	
For 20 Gauge, Add	59.22	
For 18 Gauge, Add	90.80	
For 16 Gauge, Add	110.54	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	58.43	
For Work In Restricted Working Space, Add	164.76	
23 31 13 16-0099 Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows <small>(23 31 13 16-0074)</small>		
23 31 13 16-0100 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	78.67	18.07
For 3" WG (Class B), Add	10.46	
For 4" Or 6" WG (Class A), Add	27.90	
For 24 Gauge, Add	1.78	
For 22 Gauge, Add	4.10	
For 20 Gauge, Add	6.68	
For 18 Gauge, Add	10.25	
For 16 Gauge, Add	12.47	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.59	
For Work In Restricted Working Space, Add	20.93	
23 31 13 16-0101 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	113.25	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	2.00	
For 22 Gauge, Add	4.60	
For 20 Gauge, Add	7.51	
For 18 Gauge, Add	11.51	
For 16 Gauge, Add	14.01	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.41	
For Work In Restricted Working Space, Add	30.97	
23 31 13 16-0102 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	149.28	33.56
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	2.68	
For 22 Gauge, Add	6.17	
For 20 Gauge, Add	10.07	
For 18 Gauge, Add	15.43	
For 16 Gauge, Add	18.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.93	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0103 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	188.86	42.59
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	3.36	
For 22 Gauge, Add	7.72	
For 20 Gauge, Add	12.59	
For 18 Gauge, Add	19.30	
For 16 Gauge, Add	23.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	12.42	
For Work In Restricted Working Space, Add	51.62	
23 31 13 16-0104 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	234.60	54.21
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	3.90	
For 22 Gauge, Add	8.97	
For 20 Gauge, Add	14.63	
For 18 Gauge, Add	22.43	
For 16 Gauge, Add	27.30	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.43	
For Work In Restricted Working Space, Add	64.53	
23 31 13 16-0105 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	256.33	59.37
For 3" WG (Class B), Add	35.20	
For 4" Or 6" WG (Class A), Add	93.86	
For 24 Gauge, Add	4.34	
For 22 Gauge, Add	9.97	
For 20 Gauge, Add	16.26	
For 18 Gauge, Add	24.93	
For 16 Gauge, Add	30.35	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.04	
For Work In Restricted Working Space, Add	70.40	
23 31 13 16-0106 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	313.08	69.69
For 3" WG (Class B), Add	41.63	
For 4" Or 6" WG (Class A), Add	111.02	
For 24 Gauge, Add	7.11	
For 22 Gauge, Add	16.34	
For 20 Gauge, Add	26.65	
For 18 Gauge, Add	40.86	
For 16 Gauge, Add	49.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.29	
For Work In Restricted Working Space, Add	83.27	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0107	EA	18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	387.69	86.47
		<i>For 3" WG (Class B), Add</i>	51.62	
		<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
		<i>For 24 Gauge, Add</i>	8.71	
		<i>For 22 Gauge, Add</i>	20.02	
		<i>For 20 Gauge, Add</i>	32.65	
		<i>For 18 Gauge, Add</i>	50.06	
		<i>For 16 Gauge, Add</i>	60.94	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	32.21	
		<i>For Work In Restricted Working Space, Add</i>	103.25	
23 31 13 16-0108	EA	20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	471.40	104.54
		<i>For 3" WG (Class B), Add</i>	62.45	
		<i>For 4" Or 6" WG (Class A), Add</i>	166.53	
		<i>For 24 Gauge, Add</i>	11.02	
		<i>For 22 Gauge, Add</i>	25.34	
		<i>For 20 Gauge, Add</i>	41.31	
		<i>For 18 Gauge, Add</i>	63.34	
		<i>For 16 Gauge, Add</i>	77.11	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.76	
		<i>For Work In Restricted Working Space, Add</i>	124.90	
23 31 13 16-0109	EA	22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	536.31	121.32
		<i>For 3" WG (Class B), Add</i>	73.05	
		<i>For 4" Or 6" WG (Class A), Add</i>	194.80	
		<i>For 24 Gauge, Add</i>	9.86	
		<i>For 22 Gauge, Add</i>	22.68	
		<i>For 20 Gauge, Add</i>	36.98	
		<i>For 18 Gauge, Add</i>	56.70	
		<i>For 16 Gauge, Add</i>	69.02	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	36.48	
		<i>For Work In Restricted Working Space, Add</i>	146.10	
23 31 13 16-0110	EA	24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	622.92	138.09
		<i>For 3" WG (Class B), Add</i>	82.38	
		<i>For 4" Or 6" WG (Class A), Add</i>	219.68	
		<i>For 24 Gauge, Add</i>	14.75	
		<i>For 22 Gauge, Add</i>	33.92	
		<i>For 20 Gauge, Add</i>	55.30	
		<i>For 18 Gauge, Add</i>	84.79	
		<i>For 16 Gauge, Add</i>	103.22	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	54.56	
		<i>For Work In Restricted Working Space, Add</i>	164.76	
23 31 13 16-0111		Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals <small>(23 31 13 16-0074)</small>		
23 31 13 16-0112	EA	6" x 6" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	155.01	33.56
		<i>For 3" WG (Class B), Add</i>	20.38	
		<i>For 4" Or 6" WG (Class A), Add</i>	54.34	
		<i>For 24 Gauge, Add</i>	3.83	
		<i>For 22 Gauge, Add</i>	8.81	
		<i>For 20 Gauge, Add</i>	14.36	
		<i>For 18 Gauge, Add</i>	22.02	
		<i>For 16 Gauge, Add</i>	26.81	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.17	
		<i>For Work In Restricted Working Space, Add</i>	40.76	
23 31 13 16-0113	EA	8" x 8" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	235.18	54.21
		<i>For 3" WG (Class B), Add</i>	32.27	
		<i>For 4" Or 6" WG (Class A), Add</i>	86.04	
		<i>For 24 Gauge, Add</i>	4.02	
		<i>For 22 Gauge, Add</i>	9.24	
		<i>For 20 Gauge, Add</i>	15.06	
		<i>For 18 Gauge, Add</i>	23.09	
		<i>For 16 Gauge, Add</i>	28.11	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.86	
		<i>For Work In Restricted Working Space, Add</i>	64.53	
23 31 13 16-0114	EA	10" x 10" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	299.59	69.69
		<i>For 3" WG (Class B), Add</i>	41.63	
		<i>For 4" Or 6" WG (Class A), Add</i>	111.02	
		<i>For 24 Gauge, Add</i>	4.41	
		<i>For 22 Gauge, Add</i>	10.14	
		<i>For 20 Gauge, Add</i>	16.53	
		<i>For 18 Gauge, Add</i>	25.35	
		<i>For 16 Gauge, Add</i>	30.86	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.31	
		<i>For Work In Restricted Working Space, Add</i>	83.27	
23 31 13 16-0115	EA	12" x 12" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	367.19	86.47
		<i>For 3" WG (Class B), Add</i>	51.62	
		<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
		<i>For 24 Gauge, Add</i>	4.61	
		<i>For 22 Gauge, Add</i>	10.59	
		<i>For 20 Gauge, Add</i>	17.27	
		<i>For 18 Gauge, Add</i>	26.48	
		<i>For 16 Gauge, Add</i>	32.24	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.04	
		<i>For Work In Restricted Working Space, Add</i>	103.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0116 EA 14" x 14" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	440.10	104.54
<i>For 3" WG (Class B), Add</i>	62.45	
<i>For 4" Or 6" WG (Class A), Add</i>	166.53	
<i>For 24 Gauge, Add</i>	4.76	
<i>For 22 Gauge, Add</i>	10.94	
<i>For 20 Gauge, Add</i>	17.84	
<i>For 18 Gauge, Add</i>	27.35	
<i>For 16 Gauge, Add</i>	33.29	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.60	
<i>For Work In Restricted Working Space, Add</i>	124.90	
23 31 13 16-0117 EA 16" x 16" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	512.87	121.32
<i>For 3" WG (Class B), Add</i>	73.05	
<i>For 4" Or 6" WG (Class A), Add</i>	194.80	
<i>For 24 Gauge, Add</i>	5.17	
<i>For 22 Gauge, Add</i>	11.90	
<i>For 20 Gauge, Add</i>	19.40	
<i>For 18 Gauge, Add</i>	29.74	
<i>For 16 Gauge, Add</i>	36.20	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.14	
<i>For Work In Restricted Working Space, Add</i>	146.10	
23 31 13 16-0118 EA 18" x 18" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	576.10	138.09
<i>For 3" WG (Class B), Add</i>	82.38	
<i>For 4" Or 6" WG (Class A), Add</i>	219.68	
<i>For 24 Gauge, Add</i>	5.38	
<i>For 22 Gauge, Add</i>	12.38	
<i>For 20 Gauge, Add</i>	20.18	
<i>For 18 Gauge, Add</i>	30.95	
<i>For 16 Gauge, Add</i>	37.67	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.91	
<i>For Work In Restricted Working Space, Add</i>	164.76	
23 31 13 16-0119 EA 20" x 20" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	657.45	157.45
<i>For 3" WG (Class B), Add</i>	94.43	
<i>For 4" Or 6" WG (Class A), Add</i>	251.82	
<i>For 24 Gauge, Add</i>	5.58	
<i>For 22 Gauge, Add</i>	12.83	
<i>For 20 Gauge, Add</i>	20.92	
<i>For 18 Gauge, Add</i>	32.07	
<i>For 16 Gauge, Add</i>	39.05	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	188.87	
23 31 13 16-0120 EA 22" x 22" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	731.17	174.24
<i>For 3" WG (Class B), Add</i>	104.64	
<i>For 4" Or 6" WG (Class A), Add</i>	279.04	
<i>For 24 Gauge, Add</i>	6.71	
<i>For 22 Gauge, Add</i>	15.44	
<i>For 20 Gauge, Add</i>	25.17	
<i>For 18 Gauge, Add</i>	38.59	
<i>For 16 Gauge, Add</i>	46.98	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	24.83	
<i>For Work In Restricted Working Space, Add</i>	209.28	
23 31 13 16-0121 EA 24" x 24" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	793.84	189.72
<i>For 3" WG (Class B), Add</i>	113.88	
<i>For 4" Or 6" WG (Class A), Add</i>	303.67	
<i>For 24 Gauge, Add</i>	6.93	
<i>For 22 Gauge, Add</i>	15.94	
<i>For 20 Gauge, Add</i>	26.00	
<i>For 18 Gauge, Add</i>	39.86	
<i>For 16 Gauge, Add</i>	48.52	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	25.65	
<i>For Work In Restricted Working Space, Add</i>	227.75	
23 31 13 16-0122 EA 8" x 8" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	250.85	58.46
<i>For 3" WG (Class B), Add</i>	35.10	
<i>For 4" Or 6" WG (Class A), Add</i>	93.59	
<i>For 24 Gauge, Add</i>	3.37	
<i>For 22 Gauge, Add</i>	7.76	
<i>For 20 Gauge, Add</i>	12.65	
<i>For 18 Gauge, Add</i>	19.40	
<i>For 16 Gauge, Add</i>	23.62	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	12.48	
<i>For Work In Restricted Working Space, Add</i>	70.19	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0123	EA		10" x 10" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	302.60	70.34
			<i>For 3" WG (Class B), Add</i>	42.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	112.52	
			<i>For 24 Gauge, Add</i>	4.26	
			<i>For 22 Gauge, Add</i>	9.80	
			<i>For 20 Gauge, Add</i>	15.98	
			<i>For 18 Gauge, Add</i>	24.50	
			<i>For 16 Gauge, Add</i>	29.82	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	15.76	
			<i>For Work In Restricted Working Space, Add</i>	84.39	
23 31 13 16-0124	EA		12" x 12" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	367.64	85.44
			<i>For 3" WG (Class B), Add</i>	51.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	136.72	
			<i>For 24 Gauge, Add</i>	5.17	
			<i>For 22 Gauge, Add</i>	11.89	
			<i>For 20 Gauge, Add</i>	19.39	
			<i>For 18 Gauge, Add</i>	29.73	
			<i>For 16 Gauge, Add</i>	36.19	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.13	
			<i>For Work In Restricted Working Space, Add</i>	102.54	
23 31 13 16-0125	EA		14" x 14" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	437.66	101.57
			<i>For 3" WG (Class B), Add</i>	61.03	
			<i>For 4" Or 6" WG (Class A), Add</i>	162.75	
			<i>For 24 Gauge, Add</i>	6.16	
			<i>For 22 Gauge, Add</i>	14.16	
			<i>For 20 Gauge, Add</i>	23.09	
			<i>For 18 Gauge, Add</i>	35.41	
			<i>For 16 Gauge, Add</i>	43.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	22.78	
			<i>For Work In Restricted Working Space, Add</i>	122.06	
23 31 13 16-0126	EA		16" x 16" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	557.77	130.60
			<i>For 3" WG (Class B), Add</i>	78.31	
			<i>For 4" Or 6" WG (Class A), Add</i>	208.83	
			<i>For 24 Gauge, Add</i>	7.14	
			<i>For 22 Gauge, Add</i>	16.42	
			<i>For 20 Gauge, Add</i>	26.77	
			<i>For 18 Gauge, Add</i>	41.04	
			<i>For 16 Gauge, Add</i>	49.97	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.41	
			<i>For Work In Restricted Working Space, Add</i>	156.62	
23 31 13 16-0127	EA		18" x 18" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	619.25	144.93
			<i>For 3" WG (Class B), Add</i>	86.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	231.70	
			<i>For 24 Gauge, Add</i>	8.00	
			<i>For 22 Gauge, Add</i>	18.40	
			<i>For 20 Gauge, Add</i>	29.99	
			<i>For 18 Gauge, Add</i>	45.99	
			<i>For 16 Gauge, Add</i>	55.99	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	29.59	
			<i>For Work In Restricted Working Space, Add</i>	173.78	
23 31 13 16-0128	EA		20" x 20" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	703.99	164.94
			<i>For 3" WG (Class B), Add</i>	98.77	
			<i>For 4" Or 6" WG (Class A), Add</i>	263.39	
			<i>For 24 Gauge, Add</i>	9.10	
			<i>For 22 Gauge, Add</i>	20.94	
			<i>For 20 Gauge, Add</i>	34.14	
			<i>For 18 Gauge, Add</i>	52.35	
			<i>For 16 Gauge, Add</i>	63.73	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	33.68	
			<i>For Work In Restricted Working Space, Add</i>	197.54	
23 31 13 16-0129	EA		22" x 22" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	753.67	175.91
			<i>For 3" WG (Class B), Add</i>	105.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	281.18	
			<i>For 24 Gauge, Add</i>	10.15	
			<i>For 22 Gauge, Add</i>	23.34	
			<i>For 20 Gauge, Add</i>	38.05	
			<i>For 18 Gauge, Add</i>	58.34	
			<i>For 16 Gauge, Add</i>	71.02	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	37.54	
			<i>For Work In Restricted Working Space, Add</i>	210.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0130 EA 24" x 24" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	817.73	190.75
<i>For 3" WG (Class B), Add</i>	114.41	
<i>For 4" Or 6" WG (Class A), Add</i>	305.10	
<i>For 24 Gauge, Add</i>	10.99	
<i>For 22 Gauge, Add</i>	25.29	
<i>For 20 Gauge, Add</i>	41.23	
<i>For 18 Gauge, Add</i>	63.22	
<i>For 16 Gauge, Add</i>	76.96	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.68	
<i>For Work In Restricted Working Space, Add</i>	228.83	
23 31 13 16-0131 EA 10" x 10" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	331.78	77.43
<i>For 3" WG (Class B), Add</i>	46.40	
<i>For 4" Or 6" WG (Class A), Add</i>	123.74	
<i>For 24 Gauge, Add</i>	4.49	
<i>For 22 Gauge, Add</i>	10.32	
<i>For 20 Gauge, Add</i>	16.82	
<i>For 18 Gauge, Add</i>	25.79	
<i>For 16 Gauge, Add</i>	31.40	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.60	
<i>For Work In Restricted Working Space, Add</i>	92.81	
23 31 13 16-0132 EA 12" x 12" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	403.25	94.22
<i>For 3" WG (Class B), Add</i>	56.41	
<i>For 4" Or 6" WG (Class A), Add</i>	150.42	
<i>For 24 Gauge, Add</i>	5.44	
<i>For 22 Gauge, Add</i>	12.51	
<i>For 20 Gauge, Add</i>	20.40	
<i>For 18 Gauge, Add</i>	31.28	
<i>For 16 Gauge, Add</i>	38.08	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.13	
<i>For Work In Restricted Working Space, Add</i>	112.82	
23 31 13 16-0133 EA 14" x 14" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	479.93	111.64
<i>For 3" WG (Class B), Add</i>	67.13	
<i>For 4" Or 6" WG (Class A), Add</i>	179.00	
<i>For 24 Gauge, Add</i>	6.48	
<i>For 22 Gauge, Add</i>	14.91	
<i>For 20 Gauge, Add</i>	24.32	
<i>For 18 Gauge, Add</i>	37.28	
<i>For 16 Gauge, Add</i>	45.39	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	23.99	
<i>For Work In Restricted Working Space, Add</i>	134.25	
23 31 13 16-0134 EA 16" x 16" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	557.14	130.09
<i>For 3" WG (Class B), Add</i>	77.94	
<i>For 4" Or 6" WG (Class A), Add</i>	207.83	
<i>For 24 Gauge, Add</i>	7.51	
<i>For 22 Gauge, Add</i>	17.28	
<i>For 20 Gauge, Add</i>	28.18	
<i>For 18 Gauge, Add</i>	43.21	
<i>For 16 Gauge, Add</i>	52.60	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	27.80	
<i>For Work In Restricted Working Space, Add</i>	155.87	
23 31 13 16-0135 EA 18" x 18" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	623.44	145.45
<i>For 3" WG (Class B), Add</i>	87.20	
<i>For 4" Or 6" WG (Class A), Add</i>	232.54	
<i>For 24 Gauge, Add</i>	8.42	
<i>For 22 Gauge, Add</i>	19.36	
<i>For 20 Gauge, Add</i>	31.57	
<i>For 18 Gauge, Add</i>	48.40	
<i>For 16 Gauge, Add</i>	58.93	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	174.41	
23 31 13 16-0136 EA 20" x 20" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral	709.08	165.45
<i>For 3" WG (Class B), Add</i>	99.18	
<i>For 4" Or 6" WG (Class A), Add</i>	264.47	
<i>For 24 Gauge, Add</i>	9.58	
<i>For 22 Gauge, Add</i>	22.04	
<i>For 20 Gauge, Add</i>	35.93	
<i>For 18 Gauge, Add</i>	55.10	
<i>For 16 Gauge, Add</i>	67.07	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	35.45	
<i>For Work In Restricted Working Space, Add</i>	198.35	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0137 EA 22" x 22" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	791.73	184.56
For 3" WG (Class B), Add	110.75	
For 4" Or 6" WG (Class A), Add	295.33	
For 24 Gauge, Add	10.68	
For 22 Gauge, Add	24.56	
For 20 Gauge, Add	40.05	
For 18 Gauge, Add	61.41	
For 16 Gauge, Add	74.76	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.52	
For Work In Restricted Working Space, Add	221.50	
23 31 13 16-0138 EA 24" x 24" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	858.48	200.30
For 3" WG (Class B), Add	120.09	
For 4" Or 6" WG (Class A), Add	320.25	
For 24 Gauge, Add	11.57	
For 22 Gauge, Add	26.62	
For 20 Gauge, Add	43.40	
For 18 Gauge, Add	66.54	
For 16 Gauge, Add	81.00	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.82	
For Work In Restricted Working Space, Add	240.19	
23 31 13 16-0139 Slip Joint, Galvanized, Spiral Duct Reducers <small>(23 31 13 16-0074)</small>		
23 31 13 16-0140 EA 6" x 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	110.13	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	1.38	
For 22 Gauge, Add	3.17	
For 20 Gauge, Add	5.17	
For 18 Gauge, Add	7.92	
For 16 Gauge, Add	9.65	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.10	
For Work In Restricted Working Space, Add	30.97	
23 31 13 16-0141 EA 8" x 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	143.44	33.56
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	1.52	
For 22 Gauge, Add	3.49	
For 20 Gauge, Add	5.69	
For 18 Gauge, Add	8.72	
For 16 Gauge, Add	10.61	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.61	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0142 EA 10" x 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	180.47	42.59
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	1.68	
For 22 Gauge, Add	3.86	
For 20 Gauge, Add	6.29	
For 18 Gauge, Add	9.65	
For 16 Gauge, Add	11.75	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.21	
For Work In Restricted Working Space, Add	51.62	
23 31 13 16-0143 EA 12" x 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	224.30	54.21
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	1.84	
For 22 Gauge, Add	4.23	
For 20 Gauge, Add	6.90	
For 18 Gauge, Add	10.58	
For 16 Gauge, Add	12.88	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.81	
For Work In Restricted Working Space, Add	64.53	
23 31 13 16-0144 EA 14" x 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	244.89	59.37
For 3" WG (Class B), Add	35.20	
For 4" Or 6" WG (Class A), Add	93.86	
For 24 Gauge, Add	2.05	
For 22 Gauge, Add	4.71	
For 20 Gauge, Add	7.68	
For 18 Gauge, Add	11.78	
For 16 Gauge, Add	14.34	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.58	
For Work In Restricted Working Space, Add	70.40	
23 31 13 16-0145 EA 16" x 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	295.26	69.69
For 3" WG (Class B), Add	41.63	
For 4" Or 6" WG (Class A), Add	111.02	
For 24 Gauge, Add	3.54	
For 22 Gauge, Add	8.15	
For 20 Gauge, Add	13.28	
For 18 Gauge, Add	20.37	
For 16 Gauge, Add	24.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.11	
For Work In Restricted Working Space, Add	83.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0146 EA 18" x 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	363.08	86.47
For 3" WG (Class B), Add	51.62	
For 4" Or 6" WG (Class A), Add	137.66	
For 24 Gauge, Add	3.78	
For 22 Gauge, Add	8.70	
For 20 Gauge, Add	14.19	
For 18 Gauge, Add	21.76	
For 16 Gauge, Add	26.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.00	
For Work In Restricted Working Space, Add	103.25	
23 31 13 16-0147 EA 20" x 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	436.51	104.54
For 3" WG (Class B), Add	62.45	
For 4" Or 6" WG (Class A), Add	166.53	
For 24 Gauge, Add	4.04	
For 22 Gauge, Add	9.29	
For 20 Gauge, Add	15.14	
For 18 Gauge, Add	23.22	
For 16 Gauge, Add	28.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.94	
For Work In Restricted Working Space, Add	124.90	
23 31 13 16-0148 EA 22" x 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	508.48	121.32
For 3" WG (Class B), Add	73.05	
For 4" Or 6" WG (Class A), Add	194.80	
For 24 Gauge, Add	4.29	
For 22 Gauge, Add	9.88	
For 20 Gauge, Add	16.10	
For 18 Gauge, Add	24.69	
For 16 Gauge, Add	30.06	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.89	
For Work In Restricted Working Space, Add	146.10	
23 31 13 16-0149 EA 24" x 22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	571.81	138.09
For 3" WG (Class B), Add	82.38	
For 4" Or 6" WG (Class A), Add	219.68	
For 24 Gauge, Add	4.52	
For 22 Gauge, Add	10.41	
For 20 Gauge, Add	16.97	
For 18 Gauge, Add	26.01	
For 16 Gauge, Add	31.67	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.74	
For Work In Restricted Working Space, Add	164.76	
23 31 13 16-0150 Slip Joint, Galvanized, Spiral Duct Couplings <small>(23 31 13 16-0074)</small>		
23 31 13 16-0151 EA 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	73.02	18.07
For 3" WG (Class B), Add	10.46	
For 4" Or 6" WG (Class A), Add	27.90	
For 24 Gauge, Add	0.65	
For 22 Gauge, Add	1.50	
For 20 Gauge, Add	2.45	
For 18 Gauge, Add	3.75	
For 16 Gauge, Add	4.56	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.41	
For Work In Restricted Working Space, Add	20.93	
23 31 13 16-0152 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	106.94	25.81
For 3" WG (Class B), Add	15.49	
For 4" Or 6" WG (Class A), Add	41.30	
For 24 Gauge, Add	0.74	
For 22 Gauge, Add	1.70	
For 20 Gauge, Add	2.78	
For 18 Gauge, Add	4.26	
For 16 Gauge, Add	5.18	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.74	
For Work In Restricted Working Space, Add	30.97	
23 31 13 16-0153 EA 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	139.85	33.56
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	0.80	
For 22 Gauge, Add	1.84	
For 20 Gauge, Add	2.99	
For 18 Gauge, Add	4.59	
For 16 Gauge, Add	5.59	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.95	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0154 EA 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	176.36	42.59
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	0.86	
For 22 Gauge, Add	1.97	
For 20 Gauge, Add	3.21	
For 18 Gauge, Add	4.92	
For 16 Gauge, Add	5.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.17	
For Work In Restricted Working Space, Add	51.62	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts and Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0155	EA		12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	219.67	54.21
			<i>For 3" WG (Class B), Add</i>	32.27	
			<i>For 4" Or 6" WG (Class A), Add</i>	86.04	
			<i>For 24 Gauge, Add</i>	0.91	
			<i>For 22 Gauge, Add</i>	2.10	
			<i>For 20 Gauge, Add</i>	3.43	
			<i>For 18 Gauge, Add</i>	5.26	
			<i>For 16 Gauge, Add</i>	6.40	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.38	
			<i>For Work In Restricted Working Space, Add</i>	64.53	
23 31 13 16-0156	EA		14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	239.51	59.37
			<i>For 3" WG (Class B), Add</i>	35.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.86	
			<i>For 24 Gauge, Add</i>	0.97	
			<i>For 22 Gauge, Add</i>	2.24	
			<i>For 20 Gauge, Add</i>	3.65	
			<i>For 18 Gauge, Add</i>	5.59	
			<i>For 16 Gauge, Add</i>	6.80	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.60	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13 16-0157	EA		16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	282.93	69.69
			<i>For 3" WG (Class B), Add</i>	41.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	111.02	
			<i>For 24 Gauge, Add</i>	1.08	
			<i>For 22 Gauge, Add</i>	2.47	
			<i>For 20 Gauge, Add</i>	4.04	
			<i>For 18 Gauge, Add</i>	6.19	
			<i>For 16 Gauge, Add</i>	7.53	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.98	
			<i>For Work In Restricted Working Space, Add</i>	83.27	
23 31 13 16-0158	EA		18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	349.83	86.47
			<i>For 3" WG (Class B), Add</i>	51.62	
			<i>For 4" Or 6" WG (Class A), Add</i>	137.66	
			<i>For 24 Gauge, Add</i>	1.13	
			<i>For 22 Gauge, Add</i>	2.61	
			<i>For 20 Gauge, Add</i>	4.25	
			<i>For 18 Gauge, Add</i>	6.52	
			<i>For 16 Gauge, Add</i>	7.94	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.20	
			<i>For Work In Restricted Working Space, Add</i>	103.25	
23 31 13 16-0159	EA		20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	422.34	104.54
			<i>For 3" WG (Class B), Add</i>	62.45	
			<i>For 4" Or 6" WG (Class A), Add</i>	166.53	
			<i>For 24 Gauge, Add</i>	1.20	
			<i>For 22 Gauge, Add</i>	2.77	
			<i>For 20 Gauge, Add</i>	4.52	
			<i>For 18 Gauge, Add</i>	6.92	
			<i>For 16 Gauge, Add</i>	8.43	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	124.90	
23 31 13 16-0160	EA		22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	493.26	243.92
			<i>For 3" WG (Class B), Add</i>	73.05	
			<i>For 4" Or 6" WG (Class A), Add</i>	194.80	
			<i>For 24 Gauge, Add</i>	1.25	
			<i>For 22 Gauge, Add</i>	2.88	
			<i>For 20 Gauge, Add</i>	4.69	
			<i>For 18 Gauge, Add</i>	7.19	
			<i>For 16 Gauge, Add</i>	8.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.63	
			<i>For Work In Restricted Working Space, Add</i>	146.10	
23 31 13 16-0161	EA		24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	555.79	274.89
			<i>For 3" WG (Class B), Add</i>	82.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	219.68	
			<i>For 24 Gauge, Add</i>	1.32	
			<i>For 22 Gauge, Add</i>	3.04	
			<i>For 20 Gauge, Add</i>	4.95	
			<i>For 18 Gauge, Add</i>	7.59	
			<i>For 16 Gauge, Add</i>	9.24	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.88	
			<i>For Work In Restricted Working Space, Add</i>	164.76	
23 31 13 16-0162			Slip Joint, Galvanized, Spiral Duct Caps <small>(23 31 13 16-0074)</small>		
23 31 13 16-0163	EA		4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	38.70	18.07
			<i>For 3" WG (Class B), Add</i>	5.23	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.95	
			<i>For 24 Gauge, Add</i>	0.76	
			<i>For 22 Gauge, Add</i>	1.76	
			<i>For 20 Gauge, Add</i>	2.87	
			<i>For 18 Gauge, Add</i>	4.39	
			<i>For 16 Gauge, Add</i>	5.35	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.83	
			<i>For Work In Restricted Working Space, Add</i>	10.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0164 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	55.90	25.81
For 3" WG (Class B), Add	7.74	
For 4" Or 6" WG (Class A), Add	20.65	
For 24 Gauge, Add	0.86	
For 22 Gauge, Add	1.97	
For 20 Gauge, Add	3.21	
For 18 Gauge, Add	4.92	
For 16 Gauge, Add	5.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.17	
For Work In Restricted Working Space, Add	15.49	
23 31 13 16-0165 EA 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	72.61	34.85
For 3" WG (Class B), Add	10.19	
For 4" Or 6" WG (Class A), Add	27.17	
For 24 Gauge, Add	0.94	
For 22 Gauge, Add	2.16	
For 20 Gauge, Add	3.52	
For 18 Gauge, Add	5.39	
For 16 Gauge, Add	6.57	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.47	
For Work In Restricted Working Space, Add	20.38	
23 31 13 16-0166 EA 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	91.25	43.88
For 3" WG (Class B), Add	12.91	
For 4" Or 6" WG (Class A), Add	34.42	
For 24 Gauge, Add	1.04	
For 22 Gauge, Add	2.40	
For 20 Gauge, Add	3.91	
For 18 Gauge, Add	5.99	
For 16 Gauge, Add	7.29	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.86	
For Work In Restricted Working Space, Add	25.81	
23 31 13 16-0167 EA 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	113.34	54.21
For 3" WG (Class B), Add	16.13	
For 4" Or 6" WG (Class A), Add	43.02	
For 24 Gauge, Add	1.16	
For 22 Gauge, Add	2.66	
For 20 Gauge, Add	4.34	
For 18 Gauge, Add	6.66	
For 16 Gauge, Add	8.11	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.28	
For Work In Restricted Working Space, Add	32.27	
23 31 13 16-0168 EA 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	123.69	59.37
For 3" WG (Class B), Add	17.60	
For 4" Or 6" WG (Class A), Add	46.93	
For 24 Gauge, Add	1.27	
For 22 Gauge, Add	2.93	
For 20 Gauge, Add	4.77	
For 18 Gauge, Add	7.31	
For 16 Gauge, Add	8.90	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.71	
For Work In Restricted Working Space, Add	35.20	
23 31 13 16-0169 EA 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	143.21	68.41
For 3" WG (Class B), Add	20.38	
For 4" Or 6" WG (Class A), Add	54.34	
For 24 Gauge, Add	1.47	
For 22 Gauge, Add	3.38	
For 20 Gauge, Add	5.51	
For 18 Gauge, Add	8.45	
For 16 Gauge, Add	10.29	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.44	
For Work In Restricted Working Space, Add	40.76	
23 31 13 16-0170 EA 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	196.84	86.47
For 3" WG (Class B), Add	25.81	
For 4" Or 6" WG (Class A), Add	68.83	
For 24 Gauge, Add	4.95	
For 22 Gauge, Add	11.39	
For 20 Gauge, Add	18.57	
For 18 Gauge, Add	28.47	
For 16 Gauge, Add	34.66	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.32	
For Work In Restricted Working Space, Add	51.62	
23 31 13 16-0171 EA 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	241.95	107.12
For 3" WG (Class B), Add	32.27	
For 4" Or 6" WG (Class A), Add	86.04	
For 24 Gauge, Add	5.37	
For 22 Gauge, Add	12.35	
For 20 Gauge, Add	20.14	
For 18 Gauge, Add	30.88	
For 16 Gauge, Add	37.59	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.87	
For Work In Restricted Working Space, Add	64.53	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0172	EA		22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	263.58	117.44
			<i>For 3" WG (Class B), Add</i>	35.20	
			<i>For 4" Or 6" WG (Class A), Add</i>	93.86	
			<i>For 24 Gauge, Add</i>	5.79	
			<i>For 22 Gauge, Add</i>	13.31	
			<i>For 20 Gauge, Add</i>	21.70	
			<i>For 18 Gauge, Add</i>	33.27	
			<i>For 16 Gauge, Add</i>	40.50	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	21.41	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13 16-0173	EA		24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	305.66	136.80
			<i>For 3" WG (Class B), Add</i>	41.19	
			<i>For 4" Or 6" WG (Class A), Add</i>	109.84	
			<i>For 24 Gauge, Add</i>	6.21	
			<i>For 22 Gauge, Add</i>	14.29	
			<i>For 20 Gauge, Add</i>	23.30	
			<i>For 18 Gauge, Add</i>	35.73	
			<i>For 16 Gauge, Add</i>	43.50	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	22.99	
			<i>For Work In Restricted Working Space, Add</i>	82.38	
23 31 13 19 Metal Duct Fittings (23 31 13)					
23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)					
23 31 13 19-0002	LF		Sheet Metal Baffles Under Raised Floor.....	45.42	36.74
			<i>For Work In Restricted Working Space, Add</i>	13.43	
			<i>For Elevated Installation >10' To 15', Add</i>	4.48	
			<i>For Elevated Installation >15' To 20', Add</i>	8.96	
			<i>For Elevated Installation >20' To 25', Add</i>	11.20	
			<i>For Elevated Installation >25' To 30', Add</i>	15.67	
			<i>For Elevated Installation >30' To 35', Add</i>	17.91	
			<i>For Elevated Installation >35' To 40', Add</i>	22.39	
			<i>For Elevated Installation >40', Add</i>	24.63	
23 31 13 19-0003 Duct Register Boots (23 31 13 19)					
23 31 13 19-0004	EA		10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	41.17	17.49
			<i>For Stainless Steel, Add</i>	8.02	
23 31 13 19-0005	EA		10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	41.17	17.49
			<i>For Stainless Steel, Add</i>	8.02	
23 31 13 19-0006	EA		12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	44.10	18.89
			<i>For Stainless Steel, Add</i>	8.20	
23 31 13 19-0007	EA		12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	44.10	18.89
			<i>For Stainless Steel, Add</i>	8.20	
23 31 13 19-0008	EA		12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	45.62	18.89
			<i>For Stainless Steel, Add</i>	10.18	
23 31 13 19-0009	EA		14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	47.65	20.30
			<i>For Stainless Steel, Add</i>	9.18	
23 31 13 19-0010	EA		14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	47.65	20.30
			<i>For Stainless Steel, Add</i>	9.18	
23 31 13 19-0011	EA		14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	48.60	20.30
			<i>For Stainless Steel, Add</i>	10.41	
23 31 13 19-0012	EA		10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	48.94	21.70
			<i>For Stainless Steel, Add</i>	7.22	
23 31 13 19-0013	EA		12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	51.91	23.10
			<i>For Stainless Steel, Add</i>	7.44	
23 31 13 19-0014	EA		12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	55.79	23.10
			<i>For Stainless Steel, Add</i>	12.48	
23 31 13 19-0015	EA		14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	55.05	24.49
			<i>For Stainless Steel, Add</i>	7.88	
23 31 13 19-0016	EA		14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	58.85	24.49
			<i>For Stainless Steel, Add</i>	12.82	
23 31 13 19-0017	EA		12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel.....	43.18	18.89
			<i>For Stainless Steel, Add</i>	7.01	
23 31 13 19-0018	EA		12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	43.18	18.89
			<i>For Stainless Steel, Add</i>	7.01	
23 31 13 19-0019	EA		14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	46.59	20.30
			<i>For Stainless Steel, Add</i>	7.80	
23 31 13 19-0020	EA		14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel.....	47.50	20.30
			<i>For Stainless Steel, Add</i>	8.98	
23 31 13 19-0021	EA		10" x 4" x 6" Register Boot, Center, Galvanized Steel.....	49.07	21.70
			<i>For Stainless Steel, Add</i>	7.38	
23 31 13 19-0022	EA		12" x 4" x 6" Register Boot, Center, Galvanized Steel.....	52.02	23.10
			<i>For Stainless Steel, Add</i>	7.58	
23 31 13 19-0023	EA		12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	43.79	18.89
			<i>For Stainless Steel, Add</i>	7.80	
23 31 13 19-0024	EA		14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	46.96	20.30
			<i>For Stainless Steel, Add</i>	8.28	
23 31 13 19-0025	EA		10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	41.17	17.49
			<i>For Stainless Steel, Add</i>	8.02	
23 31 13 19-0026	EA		12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	44.10	18.89
			<i>For Stainless Steel, Add</i>	8.20	
23 31 13 19-0027	EA		14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel.....	47.65	20.30
			<i>For Stainless Steel, Add</i>	9.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 19-0028 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	47.65	20.30
<i>For Stainless Steel, Add</i>	9.18	
23 31 13 19-0029 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	48.94	21.70
<i>For Stainless Steel, Add</i>	7.22	
23 31 13 19-0030 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	51.91	23.10
<i>For Stainless Steel, Add</i>	7.44	
23 31 13 19-0031 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	55.79	23.10
<i>For Stainless Steel, Add</i>	12.48	
23 31 13 19-0032 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	58.59	24.49
<i>For Stainless Steel, Add</i>	12.48	
23 31 13 23 Galvanized Steel Welded Duct <small>(23 31 13)</small>		
<small>Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.</small>		
23 31 13 23-0001 Welded Steel Ductwork <small>(23 31 13 23)</small>		
<small>Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.</small>		
23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen <small>(23 31 13 23-0001)</small>		
<small>Note: Also includes special exhaust systems and waste.</small>		
23 31 13 23-0003 LB Galvanized Steel Welded Duct.....	24.95	11.14
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	1.94	
<i>For Work In Restricted Working Space, Add</i>	6.70	
<i>For Elevated Installation >10' To 15', Add</i>	2.23	
<i>For Elevated Installation >15' To 20', Add</i>	4.47	
<i>For Elevated Installation >20' To 25', Add</i>	5.58	
<i>For Elevated Installation >25' To 30', Add</i>	7.82	
<i>For Elevated Installation >30' To 35', Add</i>	8.93	
<i>For Elevated Installation >35' To 40', Add</i>	11.17	
<i>For Elevated Installation >40', Add</i>	12.28	
23 31 13 23-0004 Black Steel Ductwork <small>(23 31 13 23-0001)</small>		
23 31 13 23-0005 LB Black Steel Ductwork.....	23.56	11.49
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	0.44	
<i>For Work In Restricted Working Space, Add</i>	6.89	
<i>For Elevated Installation >10' To 15', Add</i>	2.30	
<i>For Elevated Installation >15' To 20', Add</i>	4.59	
<i>For Elevated Installation >20' To 25', Add</i>	5.74	
<i>For Elevated Installation >25' To 30', Add</i>	8.04	
<i>For Elevated Installation >30' To 35', Add</i>	9.19	
<i>For Elevated Installation >35' To 40', Add</i>	11.49	
<i>For Elevated Installation >40', Add</i>	12.63	
23 31 16 Nonmetal Ducts <small>(23 31)</small>		
23 31 16 13 Fibrous-Glass Ducts <small>(23 31 16)</small>		
23 31 16 13-0001 Glass Fiber Duct Board <small>(23 31 16 13)</small>		
<small>Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.</small>		
23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475).....	11.03	2.30
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800).....	12.87	2.53
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800).....	14.79	2.78
23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts <small>(23 31 16)</small>		
23 31 16 16-0001 Fiber Reinforced Round Plastic Duct <small>(23 31 16 16)</small>		
23 31 16 16-0002 Fiber Reinforced Round Plastic Duct <small>(23 31 16 16-0001)</small>		
23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct.....	17.87	6.87
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct.....	22.10	8.04
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct.....	30.47	11.80
23 31 16 16-0006 LF 6" Fiber Reinforced Plastic Duct.....	39.96	14.91
23 31 16 16-0007 LF 8" Fiber Reinforced Plastic Duct.....	50.50	18.67
23 31 16 16-0008 LF 10" Fiber Reinforced Plastic Duct.....	60.81	22.44
23 31 16 16-0009 LF 12" Fiber Reinforced Plastic Duct.....	69.00	26.20
23 31 16 16-0010 LF 14" Fiber Reinforced Plastic Duct.....	78.04	28.66
23 31 16 16-0011 LF 16" Fiber Reinforced Plastic Duct.....	84.09	30.47
23 31 16 16-0012 LF 18" Fiber Reinforced Plastic Duct.....	102.43	34.24
23 31 16 16-0013 LF 20" Fiber Reinforced Plastic Duct.....	108.16	36.70
23 31 16 16-0014 LF 24" Fiber Reinforced Plastic Duct.....	129.90	39.17
23 31 16 16-0015 LF 30" Fiber Reinforced Plastic Duct.....	149.10	45.38
23 31 16 16-0016 LF 36" Fiber Reinforced Plastic Duct.....	173.45	54.72
23 31 16 16-0017 LF 42" Fiber Reinforced Plastic Duct.....	224.90	60.95
23 31 16 16-0018 LF 48" Fiber Reinforced Plastic Duct.....	252.03	68.47
23 31 16 16-0019 LF 54" Fiber Reinforced Plastic Duct.....	281.34	78.85
23 31 16 16-0020 LF 60" Fiber Reinforced Plastic Duct.....	320.73	91.55
23 31 16 16-0021 LF 66" Fiber Reinforced Plastic Duct.....	352.02	112.04
23 31 16 16-0022 LF 72" Fiber Reinforced Plastic Duct.....	429.70	136.93

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0023 Fiber Reinforced Plastic Bell (23 31 16 16-0001)		
23 31 16 16-0024 EA 2" Fiber Reinforced Plastic Bell.....	76.63	27.88
23 31 16 16-0025 EA 3" Fiber Reinforced Plastic Bell.....	92.22	33.07
23 31 16 16-0026 EA 4" Fiber Reinforced Plastic Bell.....	106.50	38.90
23 31 16 16-0027 EA 6" Fiber Reinforced Plastic Bell.....	140.25	51.87
23 31 16 16-0028 EA 8" Fiber Reinforced Plastic Bell.....	171.40	64.84
23 31 16 16-0029 EA 10" Fiber Reinforced Plastic Bell.....	199.96	77.81
23 31 16 16-0030 EA 12" Fiber Reinforced Plastic Bell.....	247.98	96.61
23 31 16 16-0031 EA 14" Fiber Reinforced Plastic Bell.....	264.87	103.74
23 31 16 16-0032 EA 16" Fiber Reinforced Plastic Bell.....	286.94	110.88
23 31 16 16-0033 EA 18" Fiber Reinforced Plastic Bell.....	309.03	119.30
23 31 16 16-0034 EA 20" Fiber Reinforced Plastic Bell.....	337.60	129.67
23 31 16 16-0035 EA 24" Fiber Reinforced Plastic Bell.....	389.61	142.64
23 31 16 16-0036 EA 30" Fiber Reinforced Plastic Bell.....	449.44	155.61
23 31 16 16-0037 EA 36" Fiber Reinforced Plastic Bell.....	509.24	175.06
23 31 16 16-0038 EA 42" Fiber Reinforced Plastic Bell.....	569.01	194.51
23 31 16 16-0039 EA 48" Fiber Reinforced Plastic Bell.....	628.75	213.97
23 31 16 16-0040 EA 54" Fiber Reinforced Plastic Bell.....	779.52	259.35
23 31 16 16-0041 EA 60" Fiber Reinforced Plastic Bell.....	935.27	324.19
23 31 16 16-0042 EA 66" Fiber Reinforced Plastic Bell.....	1,122.27	389.02
23 31 16 16-0043 EA 72" Fiber Reinforced Plastic Bell.....	1,283.57	440.89
23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)		
23 31 16 16-0045 EA 2" Fiber Reinforced Plastic Flange.....	118.36	27.88
23 31 16 16-0046 EA 3" Fiber Reinforced Plastic Flange.....	136.56	33.07
23 31 16 16-0047 EA 4" Fiber Reinforced Plastic Flange.....	156.06	38.90
23 31 16 16-0048 EA 6" Fiber Reinforced Plastic Flange.....	202.85	51.87
23 31 16 16-0049 EA 8" Fiber Reinforced Plastic Flange.....	247.04	64.84
23 31 16 16-0050 EA 10" Fiber Reinforced Plastic Flange.....	291.25	77.81
23 31 16 16-0051 EA 12" Fiber Reinforced Plastic Flange.....	344.49	96.61
23 31 16 16-0052 EA 14" Fiber Reinforced Plastic Flange.....	382.24	103.74
23 31 16 16-0053 EA 16" Fiber Reinforced Plastic Flange.....	417.36	110.88
23 31 16 16-0054 EA 18" Fiber Reinforced Plastic Flange.....	444.66	119.30
23 31 16 16-0055 EA 20" Fiber Reinforced Plastic Flange.....	468.01	129.67
23 31 16 16-0056 EA 24" Fiber Reinforced Plastic Flange.....	546.10	142.64
23 31 16 16-0057 EA 30" Fiber Reinforced Plastic Flange.....	600.72	155.61
23 31 16 16-0058 EA 36" Fiber Reinforced Plastic Flange.....	736.15	175.06
23 31 16 16-0059 EA 42" Fiber Reinforced Plastic Flange.....	819.39	194.51
23 31 16 16-0060 EA 48" Fiber Reinforced Plastic Flange.....	928.69	213.97
23 31 16 16-0061 EA 54" Fiber Reinforced Plastic Flange.....	1,092.50	259.35
23 31 16 16-0062 EA 60" Fiber Reinforced Plastic Flange.....	1,308.24	324.19
23 31 16 16-0063 EA 66" Fiber Reinforced Plastic Flange.....	1,523.94	389.02
23 31 16 16-0064 EA 72" Fiber Reinforced Plastic Flange.....	1,742.62	440.89
23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0066 EA 2" Fiber Reinforced Plastic 90 Degree Elbow.....	198.11	67.17
23 31 16 16-0067 EA 3" Fiber Reinforced Plastic 90 Degree Elbow.....	232.94	80.27
23 31 16 16-0068 EA 4" Fiber Reinforced Plastic 90 Degree Elbow.....	270.37	93.36
23 31 16 16-0069 EA 6" Fiber Reinforced Plastic 90 Degree Elbow.....	350.93	124.49
23 31 16 16-0070 EA 8" Fiber Reinforced Plastic 90 Degree Elbow.....	431.49	155.61
23 31 16 16-0071 EA 10" Fiber Reinforced Plastic 90 Degree Elbow.....	512.07	186.73
23 31 16 16-0072 EA 12" Fiber Reinforced Plastic 90 Degree Elbow.....	629.56	232.25
23 31 16 16-0073 EA 14" Fiber Reinforced Plastic 90 Degree Elbow.....	709.74	245.86
23 31 16 16-0074 EA 16" Fiber Reinforced Plastic 90 Degree Elbow.....	805.00	267.00
23 31 16 16-0075 EA 18" Fiber Reinforced Plastic 90 Degree Elbow.....	951.93	286.32
23 31 16 16-0076 EA 20" Fiber Reinforced Plastic 90 Degree Elbow.....	1,092.58	311.22
23 31 16 16-0077 EA 24" Fiber Reinforced Plastic 90 Degree Elbow.....	1,261.82	342.34
23 31 16 16-0078 EA 30" Fiber Reinforced Plastic 90 Degree Elbow.....	1,678.80	373.47
23 31 16 16-0079 EA 36" Fiber Reinforced Plastic 90 Degree Elbow.....	2,134.86	420.15
23 31 16 16-0080 EA 42" Fiber Reinforced Plastic 90 Degree Elbow.....	2,786.48	466.96
23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow.....	3,294.72	513.64
23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow.....	3,906.42	622.45
23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow.....	4,739.57	778.05
23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow.....	5,572.23	933.41
23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow.....	6,353.28	1,057.77
23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow.....	169.41	67.17
23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow.....	199.03	80.27
23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow.....	231.22	93.36
23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow.....	293.55	124.49
23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow.....	355.85	155.61
23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow.....	423.48	186.73
23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow.....	522.72	232.25
23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow.....	566.18	245.86
23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow.....	669.14	266.88
23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow.....	764.49	286.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow	878.63	311.22
23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow	1,008.23	342.08
23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow	1,261.01	373.21
23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow	1,532.97	420.54
23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow	1,934.17	467.22
23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow	2,264.48	513.64
23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow	2,701.43	622.45
23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow	3,247.68	778.05
23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow	3,821.75	931.59
23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow	4,320.81	1,058.80
23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)		
23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee	258.32	100.24
23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee	305.58	120.73
23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee	350.78	140.05
23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee	454.69	186.73
23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee	556.53	232.25
23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee	664.50	281.39
23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee	803.19	341.04
23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee	875.98	369.05
23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee	1,007.22	400.95
23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee	1,133.12	429.48
23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee	1,299.81	466.96
23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee	1,482.02	513.64
23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee	1,755.04	560.07
23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee	2,094.13	630.48
23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee	2,732.33	700.51
23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee	3,240.57	770.66
23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee	3,904.48	934.31
23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee	4,684.52	1,167.60
23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee	5,463.81	1,400.37
23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee	6,167.51	1,587.88
23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)		
23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint	219.17	100.24
23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint	258.59	120.73
23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint	296.05	140.05
23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint	379.14	186.73
23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint	460.12	232.25
23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint	552.41	281.39
23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint	662.65	341.30
23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint	718.91	368.80
23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint	788.41	401.08
23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint	852.07	429.88
23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint	930.02	467.22
23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint	1,028.19	513.64
23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint	1,133.75	559.81
23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint	1,279.69	630.09
23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint	1,429.06	700.90
23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint	1,570.82	770.40
23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint	1,878.64	931.59
23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint	2,301.53	1,169.67
23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint	2,779.04	1,401.40
23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint	3,115.92	1,587.88
23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer	179.88	67.31
23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer	212.14	80.39
23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer	249.58	93.36
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer	322.24	124.49
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer	389.76	155.61
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer	468.96	187.51
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer	559.23	232.25
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer	597.48	245.86
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer	658.70	266.88
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer	722.76	286.58
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer	805.60	311.22
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer	915.54	342.73
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer	1,025.10	374.11
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer	1,159.99	420.54
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer	1,295.16	467.22
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer	1,455.94	513.64
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer	1,728.57	622.45
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer	2,071.39	778.05
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer	2,335.08	931.59
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer	2,625.48	1,058.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer	211.18	67.31
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer	233.00	80.39
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer	270.44	93.36
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer	350.93	124.49
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer	431.49	155.61
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer	513.30	187.51
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer	616.61	232.25
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer	670.51	245.86
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer	731.73	266.88
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer	821.87	286.58
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer	1,024.69	311.22
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer	1,236.35	342.73
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer	1,327.65	374.11
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer	1,509.49	420.54
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer	1,639.45	467.22
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer	1,795.00	513.64
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer	2,002.43	622.45
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer	2,329.60	778.05
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer	2,621.98	931.59
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer	2,886.30	1,058.80
23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)		
23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper	359.80	67.17
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper	407.69	80.27
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper	455.55	93.36
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper	546.55	124.49
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper	650.58	155.61
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper	741.59	186.73
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper	856.48	232.25
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper	944.48	245.86
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper	1,044.96	267.00
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper	1,142.33	286.32
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper	1,222.99	311.22
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper	1,379.19	342.34
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper	1,587.51	373.47
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper	1,821.88	420.15
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper	2,082.27	466.96
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper	2,316.64	513.64
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper	2,732.73	622.45
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper	3,226.82	778.05
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper	3,694.32	933.41
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper	4,240.64	1,057.77
23 33 Air Duct Accessories (23 30)		
23 33 13 Dampers (23 33)		
23 33 13 13 Volume-Control Dampers (23 33 13)		
23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (23 33 13 13)		
23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	104.40	11.20
For Stainless Steel, Add	79.25	
For Parallel Blade Damper, Add	24.38	
23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	112.23	12.59
For Stainless Steel, Add	80.39	
For Parallel Blade Damper, Add	24.74	
23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	121.10	13.99
For Stainless Steel, Add	81.25	
For Parallel Blade Damper, Add	25.00	
23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	131.00	16.80
For Stainless Steel, Add	86.32	
For Parallel Blade Damper, Add	26.56	
23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	142.30	18.20
For Stainless Steel, Add	91.40	
For Parallel Blade Damper, Add	28.12	
23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	168.58	19.60
For Stainless Steel, Add	116.79	
For Parallel Blade Damper, Add	35.94	
23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	184.52	20.99
For Stainless Steel, Add	126.95	
For Parallel Blade Damper, Add	39.06	
23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	194.85	23.79
For Stainless Steel, Add	132.00	
For Parallel Blade Damper, Add	40.62	
23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	214.05	25.20
For Stainless Steel, Add	147.25	
For Parallel Blade Damper, Add	45.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	250.16	28.00
<i>For Stainless Steel, Add</i>	182.81	
<i>For Parallel Blade Damper, Add</i>	56.25	
23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	274.64	28.00
<i>For Stainless Steel, Add</i>	208.16	
<i>For Parallel Blade Damper, Add</i>	64.05	
23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	313.45	32.19
<i>For Stainless Steel, Add</i>	243.71	
<i>For Parallel Blade Damper, Add</i>	74.99	
23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	336.88	33.59
<i>For Stainless Steel, Add</i>	265.56	
<i>For Parallel Blade Damper, Add</i>	81.71	
23 33 13 13-0015 Rectangular Opposed Blade Damper <small>(23 33 13 13)</small>		
23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	84.40	15.56
<i>For Stainless Steel, Add</i>	49.05	
<i>For Parallel Blade Damper, Add</i>	15.09	
23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	89.19	16.26
<i>For Stainless Steel, Add</i>	52.53	
<i>For Parallel Blade Damper, Add</i>	16.16	
23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	92.17	16.40
<i>For Stainless Steel, Add</i>	56.04	
<i>For Parallel Blade Damper, Add</i>	17.24	
23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	92.17	16.40
<i>For Stainless Steel, Add</i>	56.04	
<i>For Parallel Blade Damper, Add</i>	17.24	
23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.26	16.82
<i>For Stainless Steel, Add</i>	59.54	
<i>For Parallel Blade Damper, Add</i>	18.32	
23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	107.25	18.65
<i>For Stainless Steel, Add</i>	66.53	
<i>For Parallel Blade Damper, Add</i>	20.47	
23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	96.26	16.82
<i>For Stainless Steel, Add</i>	59.54	
<i>For Parallel Blade Damper, Add</i>	18.32	
23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	104.44	17.80
<i>For Stainless Steel, Add</i>	66.53	
<i>For Parallel Blade Damper, Add</i>	20.47	
23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	119.67	21.02
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	103.11	17.80
<i>For Stainless Steel, Add</i>	64.81	
<i>For Parallel Blade Damper, Add</i>	19.94	
23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	115.46	19.62
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	122.36	21.02
<i>For Stainless Steel, Add</i>	77.08	
<i>For Parallel Blade Damper, Add</i>	23.72	
23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	136.10	23.40
<i>For Stainless Steel, Add</i>	85.83	
<i>For Parallel Blade Damper, Add</i>	26.41	
23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	109.97	18.65
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	116.87	20.04
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	125.16	22.00
<i>For Stainless Steel, Add</i>	77.08	
<i>For Parallel Blade Damper, Add</i>	23.72	
23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	132.05	23.40
<i>For Stainless Steel, Add</i>	80.56	
<i>For Parallel Blade Damper, Add</i>	24.79	
23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	145.83	25.64
<i>For Stainless Steel, Add</i>	89.36	
<i>For Parallel Blade Damper, Add</i>	27.50	
23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	159.56	28.03
<i>For Stainless Steel, Add</i>	98.10	
<i>For Parallel Blade Damper, Add</i>	30.18	
23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	115.46	19.62
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	123.69	21.02
<i>For Stainless Steel, Add</i>	78.81	
<i>For Parallel Blade Damper, Add</i>	24.25	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	134.77	23.40
For Stainless Steel, Add	84.10	
For Parallel Blade Damper, Add	25.88	
23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	148.52	25.64
For Stainless Steel, Add	92.86	
For Parallel Blade Damper, Add	28.57	
23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	160.91	28.03
For Stainless Steel, Add	99.85	
For Parallel Blade Damper, Add	30.72	
23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	174.63	30.27
For Stainless Steel, Add	108.59	
For Parallel Blade Damper, Add	33.41	
23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	185.69	32.65
For Stainless Steel, Add	113.85	
For Parallel Blade Damper, Add	35.03	
23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	122.36	21.02
For Stainless Steel, Add	77.08	
For Parallel Blade Damper, Add	23.72	
23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	134.75	23.40
For Stainless Steel, Add	84.07	
For Parallel Blade Damper, Add	25.87	
23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	147.16	25.64
For Stainless Steel, Add	91.09	
For Parallel Blade Damper, Add	28.03	
23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	176.00	30.27
For Stainless Steel, Add	110.37	
For Parallel Blade Damper, Add	33.96	
23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	187.06	32.65
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	199.44	35.04
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	211.82	37.28
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	137.45	23.40
For Stainless Steel, Add	87.58	
For Parallel Blade Damper, Add	26.95	
23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.55	25.64
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.05	30.27
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	191.09	32.65
For Stainless Steel, Add	120.87	
For Parallel Blade Damper, Add	37.19	
23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	202.13	35.04
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	217.22	37.28
For Stainless Steel, Add	136.63	
For Parallel Blade Damper, Add	42.04	
23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	239.31	42.05
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	264.13	46.67
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	152.55	25.64
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	164.96	28.03
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	180.05	30.27
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.44	32.65
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	206.16	35.04
For Stainless Steel, Add	131.37	
For Parallel Blade Damper, Add	40.42	
23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	219.90	37.28
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	242.01	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	264.13	46.67
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	287.29	49.06
For Stainless Steel, Add	182.17	
For Parallel Blade Damper, Add	56.05	
23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	314.78	53.68
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	173.05	28.03
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	182.73	30.27
For Stainless Steel, Add	119.12	
For Parallel Blade Damper, Add	36.65	
23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	192.44	32.65
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	204.81	35.04
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	220.42	37.28
For Stainless Steel, Add	140.79	
For Parallel Blade Damper, Add	43.32	
23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	242.01	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	266.83	46.67
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	291.62	51.30
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	314.78	53.68
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	344.87	57.46
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	376.25	60.69
For Stainless Steel, Add	252.27	
For Parallel Blade Damper, Add	77.62	
23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	188.12	30.27
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	200.51	32.65
For Stainless Steel, Add	133.12	
For Parallel Blade Damper, Add	40.96	
23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	212.89	35.04
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	
23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	227.99	37.28
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	246.08	42.05
For Stainless Steel, Add	155.92	
For Parallel Blade Damper, Add	47.98	
23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	257.13	44.29
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	291.62	51.30
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	319.09	56.07
For Stainless Steel, Add	196.17	
For Parallel Blade Damper, Add	60.36	
23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	340.88	57.89
For Stainless Steel, Add	217.22	
For Parallel Blade Damper, Add	66.84	
23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	375.04	62.09
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	403.72	65.31
For Stainless Steel, Add	269.75	
For Parallel Blade Damper, Add	83.00	
23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	432.29	67.69
For Stainless Steel, Add	297.78	
For Parallel Blade Damper, Add	91.62	
23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	197.81	35.04
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0095 EA 40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	215.58	37.28
For Stainless Steel, Add	143.61	
For Parallel Blade Damper, Add	44.19	
23 33 13 13-0096 EA 40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	225.29	39.66
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0097 EA 40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	235.00	42.05
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0098 EA 40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.46	44.29
For Stainless Steel, Add	162.90	
For Parallel Blade Damper, Add	50.12	
23 33 13 13-0099 EA 40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0100 EA 40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	306.71	53.68
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0101 EA 40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	331.52	58.31
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0102 EA 40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	358.89	62.09
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0103 EA 40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.34	65.31
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0104 EA 40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	425.70	69.10
For Stainless Steel, Add	283.75	
For Parallel Blade Damper, Add	87.31	
23 33 13 13-0105 EA 40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	460.96	70.92
For Stainless Steel, Add	322.31	
For Parallel Blade Damper, Add	99.17	
23 33 13 13-0106 EA 40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	499.13	74.70
For Stainless Steel, Add	357.34	
For Parallel Blade Damper, Add	109.95	
23 33 13 13-0107 EA 44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	210.21	35.04
For Stainless Steel, Add	136.63	
For Parallel Blade Damper, Add	42.04	
23 33 13 13-0108 EA 44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	227.99	37.28
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0109 EA 44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	243.11	39.66
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0110 EA 44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0111 EA 44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	270.60	44.29
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0112 EA 44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	288.37	46.67
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0113 EA 44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	329.90	56.07
For Stainless Steel, Add	210.22	
For Parallel Blade Damper, Add	64.68	
23 33 13 13-0114 EA 44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	357.36	60.69
For Stainless Steel, Add	227.71	
For Parallel Blade Damper, Add	70.06	
23 33 13 13-0115 EA 44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.34	65.31
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0116 EA 44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	436.62	70.08
For Stainless Steel, Add	294.29	
For Parallel Blade Damper, Add	90.55	
23 33 13 13-0117 EA 44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	477.55	74.70
For Stainless Steel, Add	329.29	
For Parallel Blade Damper, Add	101.32	
23 33 13 13-0118 EA 44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	508.82	76.94
For Stainless Steel, Add	360.83	
For Parallel Blade Damper, Add	111.02	
23 33 13 13-0119 EA 44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	540.09	79.33
For Stainless Steel, Add	392.37	
For Parallel Blade Damper, Add	120.73	
23 33 13 13-0120 EA 44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	571.36	81.71
For Stainless Steel, Add	423.90	
For Parallel Blade Damper, Add	130.43	
23 33 13 13-0121 EA 48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	225.29	37.28
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0122 EA 48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	243.11	39.66
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0123 EA 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0124 EA 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0125 EA 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	299.70	51.30
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0126 EA 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	324.51	56.07
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0127 EA 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	354.68	60.69
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0128 EA 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	384.85	65.31
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0129 EA 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	423.13	70.08
For Stainless Steel, Add	276.76	
For Parallel Blade Damper, Add	85.16	
23 33 13 13-0130 EA 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	466.78	74.70
For Stainless Steel, Add	315.29	
For Parallel Blade Damper, Add	97.01	
23 33 13 13-0131 EA 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	498.07	76.94
For Stainless Steel, Add	346.85	
For Parallel Blade Damper, Add	106.72	
23 33 13 13-0132 EA 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	537.40	79.33
For Stainless Steel, Add	388.87	
For Parallel Blade Damper, Add	119.65	
23 33 13 13-0133 EA 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	575.68	83.95
For Stainless Steel, Add	420.41	
For Parallel Blade Damper, Add	129.36	
23 33 13 13-0134 EA 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	615.02	86.34
For Stainless Steel, Add	462.44	
For Parallel Blade Damper, Add	142.29	
23 33 13 13-0135 EA 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	657.59	93.35
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0136 EA 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	240.41	39.66
For Stainless Steel, Add	157.66	
For Parallel Blade Damper, Add	48.51	
23 33 13 13-0137 EA 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.20	42.05
For Stainless Steel, Add	171.68	
For Parallel Blade Damper, Add	52.82	
23 33 13 13-0138 EA 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	282.98	46.67
For Stainless Steel, Add	185.68	
For Parallel Blade Damper, Add	57.13	
23 33 13 13-0139 EA 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	299.70	51.30
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0140 EA 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	325.86	56.07
For Stainless Steel, Add	204.97	
For Parallel Blade Damper, Add	63.07	
23 33 13 13-0141 EA 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	351.99	60.69
For Stainless Steel, Add	220.73	
For Parallel Blade Damper, Add	67.92	
23 33 13 13-0142 EA 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	382.17	65.31
For Stainless Steel, Add	241.74	
For Parallel Blade Damper, Add	74.38	
23 33 13 13-0143 EA 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	412.36	70.08
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0144 EA 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	450.63	74.70
For Stainless Steel, Add	294.29	
For Parallel Blade Damper, Add	90.55	
23 33 13 13-0145 EA 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	496.97	79.33
For Stainless Steel, Add	336.31	
For Parallel Blade Damper, Add	103.48	
23 33 13 13-0146 EA 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	530.92	81.71
For Stainless Steel, Add	371.33	
For Parallel Blade Damper, Add	114.26	
23 33 13 13-0147 EA 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	572.98	83.95
For Stainless Steel, Add	416.90	
For Parallel Blade Damper, Add	128.28	
23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	619.30	88.72
For Stainless Steel, Add	458.90	
For Parallel Blade Damper, Add	141.20	
23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	657.59	93.35
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	710.95	100.36
For Stainless Steel, Add	532.51	
For Parallel Blade Damper, Add	163.85	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 33 13 13-0151	EA	52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	751.93	104.97
		<i>For Stainless Steel, Add</i>	567.55	
		<i>For Parallel Blade Damper, Add</i>	174.63	
23 33 13 13-0152	EA	56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	252.82	42.05
		<i>For Stainless Steel, Add</i>	164.68	
		<i>For Parallel Blade Damper, Add</i>	50.67	
23 33 13 13-0153	EA	56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	280.28	46.67
		<i>For Stainless Steel, Add</i>	182.17	
		<i>For Parallel Blade Damper, Add</i>	56.05	
23 33 13 13-0154	EA	56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	302.39	51.30
		<i>For Stainless Steel, Add</i>	192.69	
		<i>For Parallel Blade Damper, Add</i>	59.29	
23 33 13 13-0155	EA	56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	319.09	56.07
		<i>For Stainless Steel, Add</i>	196.17	
		<i>For Parallel Blade Damper, Add</i>	60.36	
23 33 13 13-0156	EA	56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	347.94	60.69
		<i>For Stainless Steel, Add</i>	215.46	
		<i>For Parallel Blade Damper, Add</i>	66.30	
23 33 13 13-0157	EA	56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	376.78	65.31
		<i>For Stainless Steel, Add</i>	234.73	
		<i>For Parallel Blade Damper, Add</i>	72.22	
23 33 13 13-0158	EA	56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	405.62	70.08
		<i>For Stainless Steel, Add</i>	253.99	
		<i>For Parallel Blade Damper, Add</i>	78.15	
23 33 13 13-0159	EA	56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	434.45	74.70
		<i>For Stainless Steel, Add</i>	273.26	
		<i>For Parallel Blade Damper, Add</i>	84.08	
23 33 13 13-0160	EA	56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	480.80	79.33
		<i>For Stainless Steel, Add</i>	315.29	
		<i>For Parallel Blade Damper, Add</i>	97.01	
23 33 13 13-0161	EA	56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	520.16	81.71
		<i>For Stainless Steel, Add</i>	357.34	
		<i>For Parallel Blade Damper, Add</i>	109.95	
23 33 13 13-0162	EA	56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	556.81	83.95
		<i>For Stainless Steel, Add</i>	395.88	
		<i>For Parallel Blade Damper, Add</i>	121.81	
23 33 13 13-0163	EA	56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	608.55	88.72
		<i>For Stainless Steel, Add</i>	444.93	
		<i>For Parallel Blade Damper, Add</i>	136.90	
23 33 13 13-0164	EA	56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	654.90	93.35
		<i>For Stainless Steel, Add</i>	486.97	
		<i>For Parallel Blade Damper, Add</i>	149.84	
23 33 13 13-0165	EA	56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	703.95	97.97
		<i>For Stainless Steel, Add</i>	532.51	
		<i>For Parallel Blade Damper, Add</i>	163.85	
23 33 13 13-0166	EA	56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	744.92	102.73
		<i>For Stainless Steel, Add</i>	567.55	
		<i>For Parallel Blade Damper, Add</i>	174.63	
23 33 13 13-0167	EA	56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	793.97	107.36
		<i>For Stainless Steel, Add</i>	613.09	
		<i>For Parallel Blade Damper, Add</i>	188.64	
23 33 13 13-0168	EA	56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	843.02	111.98
		<i>For Stainless Steel, Add</i>	658.63	
		<i>For Parallel Blade Damper, Add</i>	202.66	
23 33 13 13-0169	EA	60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	274.90	46.67
		<i>For Stainless Steel, Add</i>	175.18	
		<i>For Parallel Blade Damper, Add</i>	53.90	
23 33 13 13-0170	EA	60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	302.39	51.30
		<i>For Stainless Steel, Add</i>	192.69	
		<i>For Parallel Blade Damper, Add</i>	59.29	
23 33 13 13-0171	EA	60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	321.79	56.07
		<i>For Stainless Steel, Add</i>	199.68	
		<i>For Parallel Blade Damper, Add</i>	61.44	
23 33 13 13-0172	EA	60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	338.52	60.69
		<i>For Stainless Steel, Add</i>	203.22	
		<i>For Parallel Blade Damper, Add</i>	62.53	
23 33 13 13-0173	EA	60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	368.70	65.31
		<i>For Stainless Steel, Add</i>	224.22	
		<i>For Parallel Blade Damper, Add</i>	68.99	
23 33 13 13-0174	EA	60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	398.87	70.08
		<i>For Stainless Steel, Add</i>	245.22	
		<i>For Parallel Blade Damper, Add</i>	75.45	
23 33 13 13-0175	EA	60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	430.40	74.70
		<i>For Stainless Steel, Add</i>	268.00	
		<i>For Parallel Blade Damper, Add</i>	82.46	
23 33 13 13-0176	EA	60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	461.94	79.33
		<i>For Stainless Steel, Add</i>	290.77	
		<i>For Parallel Blade Damper, Add</i>	89.47	
23 33 13 13-0177	EA	60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	503.98	81.71
		<i>For Stainless Steel, Add</i>	336.31	
		<i>For Parallel Blade Damper, Add</i>	103.48	
23 33 13 13-0178	EA	60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	543.32	83.95
		<i>For Stainless Steel, Add</i>	378.34	
		<i>For Parallel Blade Damper, Add</i>	116.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0179	EA		60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....592.38 For Stainless Steel, Add 423.90 For Parallel Blade Damper, Add 130.43	592.38	88.72
23 33 13 13-0180	EA		60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....641.43 For Stainless Steel, Add 469.46 For Parallel Blade Damper, Add 144.45	641.43	93.35
23 33 13 13-0181	EA		60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....682.39 For Stainless Steel, Add 504.48 For Parallel Blade Damper, Add 155.22	682.39	97.97
23 33 13 13-0182	EA		60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....739.50 For Stainless Steel, Add 560.51 For Parallel Blade Damper, Add 172.46	739.50	102.73
23 33 13 13-0183	EA		60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....791.25 For Stainless Steel, Add 609.56 For Parallel Blade Damper, Add 187.56	791.25	107.36
23 33 13 13-0184	EA		60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....843.02 For Stainless Steel, Add 658.63 For Parallel Blade Damper, Add 202.66	843.02	111.98
23 33 13 13-0185	EA		60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....889.33 For Stainless Steel, Add 700.62 For Parallel Blade Damper, Add 215.58	889.33	116.75
23 33 13 13-0186	EA		60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....935.72 For Stainless Steel, Add 742.70 For Parallel Blade Damper, Add 228.52	935.72	121.38
23 33 13 16 Fire Dampers (23 33 13)					
23 33 13 16-0001 Fire Dampers (23 33 13 16)					
23 33 13 16-0002	SF		Curtain Type, Vertical, Fire Damper .....125.85 For Smoke Damper, Add 68.26 For Spring Activated Horizontal Mount Operation, Add 18.07 For Dynamic Damper, Add 43.36 For 3 Hour Rated, Add 24.09	125.85	15.14
23 33 13 16-0003	SF		Louver Type, Vertical, Fire Damper .....169.65 For Smoke Damper, Add 105.49 For Spring Activated Horizontal Mount Operation, Add 27.92 For Dynamic Damper, Add 67.01 For 3 Hour Rated, Add 37.23	169.65	15.14
23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)					
Note: UL Listed. Air stream 22 gauge galvanized steel construction with fusible link 160 F, gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.					
23 33 13 16-0005	EA		6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....71.27 For Spring Activated Horizontal Mount Operation, Add 5.54 For Dynamic Damper, Add 13.28 For 3 Hour Rated, Add 7.38 For Cap Of Damper Blades Outside Air Stream, Add 6.15	71.27	15.56
23 33 13 16-0006	EA		8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....75.12 For Spring Activated Horizontal Mount Operation, Add 5.93 For Dynamic Damper, Add 14.22 For 3 Hour Rated, Add 7.90 For Cap Of Damper Blades Outside Air Stream, Add 6.59	75.12	16.26
23 33 13 16-0007	EA		8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....77.16 For Spring Activated Horizontal Mount Operation, Add 6.32 For Dynamic Damper, Add 15.17 For 3 Hour Rated, Add 8.43 For Cap Of Damper Blades Outside Air Stream, Add 7.03	77.16	16.40
23 33 13 16-0008	EA		10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....77.16 For Spring Activated Horizontal Mount Operation, Add 6.32 For Dynamic Damper, Add 15.17 For 3 Hour Rated, Add 8.43 For Cap Of Damper Blades Outside Air Stream, Add 7.03	77.16	16.40
23 33 13 16-0009	EA		10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....80.32 For Spring Activated Horizontal Mount Operation, Add 6.72 For Dynamic Damper, Add 16.12 For 3 Hour Rated, Add 8.96 For Cap Of Damper Blades Outside Air Stream, Add 7.47	80.32	16.82
23 33 13 16-0010	EA		10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....89.44 For Spring Activated Horizontal Mount Operation, Add 7.51 For Dynamic Damper, Add 18.02 For 3 Hour Rated, Add 10.01 For Cap Of Damper Blades Outside Air Stream, Add 8.34	89.44	18.65
23 33 13 16-0011	EA		12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....80.32 For Spring Activated Horizontal Mount Operation, Add 6.72 For Dynamic Damper, Add 16.12 For 3 Hour Rated, Add 8.96 For Cap Of Damper Blades Outside Air Stream, Add 7.47	80.32	16.82
23 33 13 16-0012	EA		12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....86.63 For Spring Activated Horizontal Mount Operation, Add 7.51 For Dynamic Damper, Add 18.02 For 3 Hour Rated, Add 10.01 For Cap Of Damper Blades Outside Air Stream, Add 8.34	86.63	17.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0013	EA		12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
			<i>For Dynamic Damper, Add</i>	18.97	
			<i>For 3 Hour Rated, Add</i>	10.54	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0014	EA		12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	99.96	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
			<i>For Dynamic Damper, Add</i>	19.92	
			<i>For 3 Hour Rated, Add</i>	11.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0015	EA		14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	85.75	17.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.31	
			<i>For Dynamic Damper, Add</i>	17.54	
			<i>For 3 Hour Rated, Add</i>	9.75	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.12	
23 33 13 16-0016	EA		14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
			<i>For Dynamic Damper, Add</i>	18.97	
			<i>For 3 Hour Rated, Add</i>	10.54	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0017	EA		14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	95.75	19.62
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
			<i>For Dynamic Damper, Add</i>	19.92	
			<i>For 3 Hour Rated, Add</i>	11.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0018	EA		14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.72	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
			<i>For Dynamic Damper, Add</i>	20.87	
			<i>For 3 Hour Rated, Add</i>	11.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0019	EA		14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.12	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.68	
			<i>For Dynamic Damper, Add</i>	23.24	
			<i>For 3 Hour Rated, Add</i>	12.91	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.76	
23 33 13 16-0020	EA		16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.20	18.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	7.90	
			<i>For Dynamic Damper, Add</i>	18.97	
			<i>For 3 Hour Rated, Add</i>	10.54	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	8.78	
23 33 13 16-0021	EA		16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.16	20.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
			<i>For Dynamic Damper, Add</i>	19.92	
			<i>For 3 Hour Rated, Add</i>	11.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0022	EA		16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.52	22.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
			<i>For Dynamic Damper, Add</i>	20.87	
			<i>For 3 Hour Rated, Add</i>	11.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0023	EA		16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	110.47	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.09	
			<i>For Dynamic Damper, Add</i>	21.81	
			<i>For 3 Hour Rated, Add</i>	12.12	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.10	
23 33 13 16-0024	EA		16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	121.89	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.08	
			<i>For Dynamic Damper, Add</i>	24.19	
			<i>For 3 Hour Rated, Add</i>	13.44	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.20	
23 33 13 16-0025	EA		16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	133.29	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.07	
			<i>For Dynamic Damper, Add</i>	26.56	
			<i>For 3 Hour Rated, Add</i>	14.76	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.30	
23 33 13 16-0026	EA		18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	95.75	19.62
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.30	
			<i>For Dynamic Damper, Add</i>	19.92	
			<i>For 3 Hour Rated, Add</i>	11.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.22	
23 33 13 16-0027	EA		18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	102.59	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.89	
			<i>For Dynamic Damper, Add</i>	21.34	
			<i>For 3 Hour Rated, Add</i>	11.86	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.88	
23 33 13 16-0028	EA		18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	112.25	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.49	
			<i>For Dynamic Damper, Add</i>	22.77	
			<i>For 3 Hour Rated, Add</i>	12.65	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.54	
23 33 13 16-0029	EA		18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	123.65	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.48	
			<i>For Dynamic Damper, Add</i>	25.14	
			<i>For 3 Hour Rated, Add</i>	13.97	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.64	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

HVAC Air Distribution

23 30

Air Duct Accessories

23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0030	EA		18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	134.16	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.26	
			<i>For Dynamic Damper, Add</i>	27.03	
			<i>For 3 Hour Rated, Add</i>	15.02	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.52	
23 33 13 16-0031	EA		18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	145.56	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.25	
			<i>For Dynamic Damper, Add</i>	29.41	
			<i>For 3 Hour Rated, Add</i>	16.34	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.62	
23 33 13 16-0032	EA		18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	155.20	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.85	
			<i>For Dynamic Damper, Add</i>	30.83	
			<i>For 3 Hour Rated, Add</i>	17.13	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.27	
23 33 13 16-0033	EA		20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.72	21.02
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	8.70	
			<i>For Dynamic Damper, Add</i>	20.87	
			<i>For 3 Hour Rated, Add</i>	11.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	9.66	
23 33 13 16-0034	EA		20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	112.23	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.48	
			<i>For Dynamic Damper, Add</i>	22.76	
			<i>For 3 Hour Rated, Add</i>	12.65	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.54	
23 33 13 16-0035	EA		20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	122.76	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.28	
			<i>For Dynamic Damper, Add</i>	24.66	
			<i>For 3 Hour Rated, Add</i>	13.70	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.42	
23 33 13 16-0036	EA		20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.86	
			<i>For Dynamic Damper, Add</i>	28.46	
			<i>For 3 Hour Rated, Add</i>	15.81	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0037	EA		20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	146.44	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.45	
			<i>For Dynamic Damper, Add</i>	29.88	
			<i>For 3 Hour Rated, Add</i>	16.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.84	
23 33 13 16-0038	EA		20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.09	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
			<i>For Dynamic Damper, Add</i>	31.31	
			<i>For 3 Hour Rated, Add</i>	17.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0039	EA		20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	166.59	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.83	
			<i>For Dynamic Damper, Add</i>	33.20	
			<i>For 3 Hour Rated, Add</i>	18.44	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.37	
23 33 13 16-0040	EA		20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.11	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.62	
			<i>For Dynamic Damper, Add</i>	35.09	
			<i>For 3 Hour Rated, Add</i>	19.50	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.25	
23 33 13 16-0041	EA		24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.99	23.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.88	
			<i>For Dynamic Damper, Add</i>	23.71	
			<i>For 3 Hour Rated, Add</i>	13.17	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.98	
23 33 13 16-0042	EA		24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	126.28	25.64
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.07	
			<i>For Dynamic Damper, Add</i>	26.56	
			<i>For 3 Hour Rated, Add</i>	14.76	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.30	
23 33 13 16-0043	EA		24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.86	
			<i>For Dynamic Damper, Add</i>	28.46	
			<i>For 3 Hour Rated, Add</i>	15.81	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0044	EA		24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	149.08	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.05	
			<i>For Dynamic Damper, Add</i>	31.31	
			<i>For 3 Hour Rated, Add</i>	17.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.50	
23 33 13 16-0045	EA		24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	158.72	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.64	
			<i>For Dynamic Damper, Add</i>	32.73	
			<i>For 3 Hour Rated, Add</i>	18.18	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.15	
23 33 13 16-0046	EA		24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	168.35	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.23	
			<i>For Dynamic Damper, Add</i>	34.15	
			<i>For 3 Hour Rated, Add</i>	18.97	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.81	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0047	EA 24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	180.63	37.28
	For Spring Activated Horizontal Mount Operation, Add	15.41	
	For Dynamic Damper, Add	37.00	
	For 3 Hour Rated, Add	20.55	
	For Cap Of Damper Blades Outside Air Stream, Add	17.13	
23 33 13 16-0048	EA 24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.91	42.05
	For Spring Activated Horizontal Mount Operation, Add	16.60	
	For Dynamic Damper, Add	39.84	
	For 3 Hour Rated, Add	22.13	
	For Cap Of Damper Blades Outside Air Stream, Add	18.44	
23 33 13 16-0049	EA 24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	220.96	46.67
	For Spring Activated Horizontal Mount Operation, Add	18.18	
	For Dynamic Damper, Add	43.64	
	For 3 Hour Rated, Add	24.24	
	For Cap Of Damper Blades Outside Air Stream, Add	20.20	
23 33 13 16-0050	EA 28" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	126.28	25.64
	For Spring Activated Horizontal Mount Operation, Add	11.07	
	For Dynamic Damper, Add	26.56	
	For 3 Hour Rated, Add	14.76	
	For Cap Of Damper Blades Outside Air Stream, Add	12.30	
23 33 13 16-0051	EA 28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.81	28.03
	For Spring Activated Horizontal Mount Operation, Add	11.86	
	For Dynamic Damper, Add	28.46	
	For 3 Hour Rated, Add	15.81	
	For Cap Of Damper Blades Outside Air Stream, Add	13.18	
23 33 13 16-0052	EA 28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	149.08	30.27
	For Spring Activated Horizontal Mount Operation, Add	13.05	
	For Dynamic Damper, Add	31.31	
	For 3 Hour Rated, Add	17.39	
	For Cap Of Damper Blades Outside Air Stream, Add	14.50	
23 33 13 16-0053	EA 28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.59	32.65
	For Spring Activated Horizontal Mount Operation, Add	13.83	
	For Dynamic Damper, Add	33.20	
	For 3 Hour Rated, Add	18.44	
	For Cap Of Damper Blades Outside Air Stream, Add	15.37	
23 33 13 16-0054	EA 28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.99	35.04
	For Spring Activated Horizontal Mount Operation, Add	14.82	
	For Dynamic Damper, Add	35.58	
	For 3 Hour Rated, Add	19.76	
	For Cap Of Damper Blades Outside Air Stream, Add	16.47	
23 33 13 16-0055	EA 28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.37	37.28
	For Spring Activated Horizontal Mount Operation, Add	15.81	
	For Dynamic Damper, Add	37.94	
	For 3 Hour Rated, Add	21.08	
	For Cap Of Damper Blades Outside Air Stream, Add	17.56	
23 33 13 16-0056	EA 28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.67	42.05
	For Spring Activated Horizontal Mount Operation, Add	16.99	
	For Dynamic Damper, Add	40.79	
	For 3 Hour Rated, Add	22.66	
	For Cap Of Damper Blades Outside Air Stream, Add	18.88	
23 33 13 16-0057	EA 28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	220.96	46.67
	For Spring Activated Horizontal Mount Operation, Add	18.18	
	For Dynamic Damper, Add	43.64	
	For 3 Hour Rated, Add	24.24	
	For Cap Of Damper Blades Outside Air Stream, Add	20.20	
23 33 13 16-0058	EA 28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	238.50	49.06
	For Spring Activated Horizontal Mount Operation, Add	20.55	
	For Dynamic Damper, Add	49.32	
	For 3 Hour Rated, Add	27.40	
	For Cap Of Damper Blades Outside Air Stream, Add	22.84	
23 33 13 16-0059	EA 28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	261.31	53.68
	For Spring Activated Horizontal Mount Operation, Add	22.53	
	For Dynamic Damper, Add	54.07	
	For 3 Hour Rated, Add	30.04	
	For Cap Of Damper Blades Outside Air Stream, Add	25.03	
23 33 13 16-0060	EA 32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	142.08	28.03
	For Spring Activated Horizontal Mount Operation, Add	13.05	
	For Dynamic Damper, Add	31.31	
	For 3 Hour Rated, Add	17.39	
	For Cap Of Damper Blades Outside Air Stream, Add	14.50	
23 33 13 16-0061	EA 32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	150.82	30.27
	For Spring Activated Horizontal Mount Operation, Add	13.44	
	For Dynamic Damper, Add	32.25	
	For 3 Hour Rated, Add	17.92	
	For Cap Of Damper Blades Outside Air Stream, Add	14.93	
23 33 13 16-0062	EA 32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	159.59	32.65
	For Spring Activated Horizontal Mount Operation, Add	13.83	
	For Dynamic Damper, Add	33.20	
	For 3 Hour Rated, Add	18.44	
	For Cap Of Damper Blades Outside Air Stream, Add	15.37	
23 33 13 16-0063	EA 32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.10	35.04
	For Spring Activated Horizontal Mount Operation, Add	14.62	
	For Dynamic Damper, Add	35.09	
	For 3 Hour Rated, Add	19.50	
	For Cap Of Damper Blades Outside Air Stream, Add	16.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0064	EA		32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.71	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.88	
			<i>For Dynamic Damper, Add</i>	38.12	
			<i>For 3 Hour Rated, Add</i>	21.18	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.65	
23 33 13 16-0065	EA		32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.67	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
			<i>For Dynamic Damper, Add</i>	40.79	
			<i>For 3 Hour Rated, Add</i>	22.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0066	EA		32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	222.72	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.58	
			<i>For Dynamic Damper, Add</i>	44.59	
			<i>For 3 Hour Rated, Add</i>	24.77	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.64	
23 33 13 16-0067	EA		32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.77	51.30
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.16	
			<i>For Dynamic Damper, Add</i>	48.38	
			<i>For 3 Hour Rated, Add</i>	26.88	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.40	
23 33 13 16-0068	EA		32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	261.31	53.68
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.53	
			<i>For Dynamic Damper, Add</i>	54.07	
			<i>For 3 Hour Rated, Add</i>	30.04	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.03	
23 33 13 16-0069	EA		32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.82	57.46
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.30	
			<i>For Dynamic Damper, Add</i>	60.71	
			<i>For 3 Hour Rated, Add</i>	33.73	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.11	
23 33 13 16-0070	EA		32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.69	60.69
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	28.46	
			<i>For Dynamic Damper, Add</i>	68.30	
			<i>For 3 Hour Rated, Add</i>	37.95	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	31.62	
23 33 13 16-0071	EA		36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	154.34	30.27
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.23	
			<i>For Dynamic Damper, Add</i>	34.15	
			<i>For 3 Hour Rated, Add</i>	18.97	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.81	
23 33 13 16-0072	EA		36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	164.86	32.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.02	
			<i>For Dynamic Damper, Add</i>	36.05	
			<i>For 3 Hour Rated, Add</i>	20.03	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.69	
23 33 13 16-0073	EA		36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	175.36	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.81	
			<i>For Dynamic Damper, Add</i>	37.94	
			<i>For 3 Hour Rated, Add</i>	21.08	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.56	
23 33 13 16-0074	EA		36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	187.65	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
			<i>For Dynamic Damper, Add</i>	40.79	
			<i>For 3 Hour Rated, Add</i>	22.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0075	EA		36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	204.32	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.59	
			<i>For Dynamic Damper, Add</i>	42.22	
			<i>For 3 Hour Rated, Add</i>	23.45	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.55	
23 33 13 16-0076	EA		36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	213.96	44.29
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.18	
			<i>For Dynamic Damper, Add</i>	43.64	
			<i>For 3 Hour Rated, Add</i>	24.24	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.20	
23 33 13 16-0077	EA		36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.77	51.30
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.16	
			<i>For Dynamic Damper, Add</i>	48.38	
			<i>For 3 Hour Rated, Add</i>	26.88	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.40	
23 33 13 16-0078	EA		36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.56	56.07
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.13	
			<i>For Dynamic Damper, Add</i>	53.12	
			<i>For 3 Hour Rated, Add</i>	29.51	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.59	
23 33 13 16-0079	EA		36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	236.03	57.89
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.00	
			<i>For Dynamic Damper, Add</i>	33.61	
			<i>For 3 Hour Rated, Add</i>	18.67	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.56	
23 33 13 16-0080	EA		36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	309.38	62.09
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.67	
			<i>For Dynamic Damper, Add</i>	66.40	
			<i>For 3 Hour Rated, Add</i>	36.89	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.74	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0081	EA		36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	331.48	65.31
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.43	
			<i>For Dynamic Damper, Add</i>	73.04	
			<i>For 3 Hour Rated, Add</i>	40.58	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	33.82	
23 33 13 16-0082	EA		36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	352.54	67.69
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.59	
			<i>For Dynamic Damper, Add</i>	80.63	
			<i>For 3 Hour Rated, Add</i>	44.79	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	37.33	
23 33 13 16-0083	EA		40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	163.10	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.62	
			<i>For Dynamic Damper, Add</i>	35.09	
			<i>For 3 Hour Rated, Add</i>	19.50	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.25	
23 33 13 16-0084	EA		40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.12	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.20	
			<i>For Dynamic Damper, Add</i>	38.89	
			<i>For 3 Hour Rated, Add</i>	21.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.00	
23 33 13 16-0085	EA		40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	185.89	39.66
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.60	
			<i>For Dynamic Damper, Add</i>	39.84	
			<i>For 3 Hour Rated, Add</i>	22.13	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.44	
23 33 13 16-0086	EA		40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	194.66	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
			<i>For Dynamic Damper, Add</i>	40.79	
			<i>For 3 Hour Rated, Add</i>	22.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0087	EA		40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	214.84	44.29
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.38	
			<i>For Dynamic Damper, Add</i>	44.11	
			<i>For 3 Hour Rated, Add</i>	24.51	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.42	
23 33 13 16-0088	EA		40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	19.76	
			<i>For Dynamic Damper, Add</i>	47.43	
			<i>For 3 Hour Rated, Add</i>	26.35	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	21.96	
23 33 13 16-0089	EA		40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	256.04	53.68
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.34	
			<i>For Dynamic Damper, Add</i>	51.22	
			<i>For 3 Hour Rated, Add</i>	28.46	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	23.72	
23 33 13 16-0090	EA		40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	277.09	58.31
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.93	
			<i>For Dynamic Damper, Add</i>	55.02	
			<i>For 3 Hour Rated, Add</i>	30.57	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.47	
23 33 13 16-0091	EA		40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	298.84	62.09
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.30	
			<i>For Dynamic Damper, Add</i>	60.71	
			<i>For 3 Hour Rated, Add</i>	33.73	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.11	
23 33 13 16-0092	EA		40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	327.97	65.31
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.64	
			<i>For Dynamic Damper, Add</i>	71.15	
			<i>For 3 Hour Rated, Add</i>	39.53	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	32.94	
23 33 13 16-0093	EA		40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	349.71	69.10
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.01	
			<i>For Dynamic Damper, Add</i>	76.83	
			<i>For 3 Hour Rated, Add</i>	42.68	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	35.57	
23 33 13 16-0094	EA		40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.64	70.92
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	36.36	
			<i>For Dynamic Damper, Add</i>	87.27	
			<i>For 3 Hour Rated, Add</i>	48.48	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	40.40	
23 33 13 16-0095	EA		40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	403.43	74.70
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.32	
			<i>For Dynamic Damper, Add</i>	96.76	
			<i>For 3 Hour Rated, Add</i>	53.75	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	44.80	
23 33 13 16-0096	EA		44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	173.62	35.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.41	
			<i>For Dynamic Damper, Add</i>	37.00	
			<i>For 3 Hour Rated, Add</i>	20.55	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.13	
23 33 13 16-0097	EA		44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	187.65	37.28
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
			<i>For Dynamic Damper, Add</i>	40.79	
			<i>For 3 Hour Rated, Add</i>	22.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

Air Duct Accessories

23 33

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0098 EA 44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.94	39.66
For Spring Activated Horizontal Mount Operation, Add	18.18	
For Dynamic Damper, Add	43.64	
For 3 Hour Rated, Add	24.24	
For Cap Of Damper Blades Outside Air Stream, Add	20.20	
23 33 13 16-0099 EA 44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
For Spring Activated Horizontal Mount Operation, Add	18.58	
For Dynamic Damper, Add	44.59	
For 3 Hour Rated, Add	24.77	
For Cap Of Damper Blades Outside Air Stream, Add	20.64	
23 33 13 16-0100 EA 44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	222.75	44.29
For Spring Activated Horizontal Mount Operation, Add	20.16	
For Dynamic Damper, Add	48.38	
For 3 Hour Rated, Add	26.88	
For Cap Of Damper Blades Outside Air Stream, Add	22.40	
23 33 13 16-0101 EA 44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	236.77	46.67
For Spring Activated Horizontal Mount Operation, Add	21.74	
For Dynamic Damper, Add	52.17	
For 3 Hour Rated, Add	28.99	
For Cap Of Damper Blades Outside Air Stream, Add	24.16	
23 33 13 16-0102 EA 44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	273.60	56.07
For Spring Activated Horizontal Mount Operation, Add	23.72	
For Dynamic Damper, Add	56.92	
For 3 Hour Rated, Add	31.62	
For Cap Of Damper Blades Outside Air Stream, Add	26.35	
23 33 13 16-0103 EA 44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	296.38	60.69
For Spring Activated Horizontal Mount Operation, Add	25.69	
For Dynamic Damper, Add	61.66	
For 3 Hour Rated, Add	34.25	
For Cap Of Damper Blades Outside Air Stream, Add	28.55	
23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	327.97	65.31
For Spring Activated Horizontal Mount Operation, Add	29.64	
For Dynamic Damper, Add	71.15	
For 3 Hour Rated, Add	39.53	
For Cap Of Damper Blades Outside Air Stream, Add	32.94	
23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	357.80	70.08
For Spring Activated Horizontal Mount Operation, Add	33.20	
For Dynamic Damper, Add	79.68	
For 3 Hour Rated, Add	44.27	
For Cap Of Damper Blades Outside Air Stream, Add	36.89	
23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	389.37	74.70
For Spring Activated Horizontal Mount Operation, Add	37.15	
For Dynamic Damper, Add	89.16	
For 3 Hour Rated, Add	49.54	
For Cap Of Damper Blades Outside Air Stream, Add	41.28	
23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.19	76.94
For Spring Activated Horizontal Mount Operation, Add	40.71	
For Dynamic Damper, Add	97.70	
For 3 Hour Rated, Add	54.28	
For Cap Of Damper Blades Outside Air Stream, Add	45.23	
23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	435.01	79.33
For Spring Activated Horizontal Mount Operation, Add	44.27	
For Dynamic Damper, Add	106.24	
For 3 Hour Rated, Add	59.02	
For Cap Of Damper Blades Outside Air Stream, Add	49.19	
23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	457.84	81.71
For Spring Activated Horizontal Mount Operation, Add	47.83	
For Dynamic Damper, Add	114.78	
For 3 Hour Rated, Add	63.77	
For Cap Of Damper Blades Outside Air Stream, Add	53.14	
23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	185.89	37.28
For Spring Activated Horizontal Mount Operation, Add	16.60	
For Dynamic Damper, Add	39.84	
For 3 Hour Rated, Add	22.13	
For Cap Of Damper Blades Outside Air Stream, Add	18.44	
23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	199.94	39.66
For Spring Activated Horizontal Mount Operation, Add	18.18	
For Dynamic Damper, Add	43.64	
For 3 Hour Rated, Add	24.24	
For Cap Of Damper Blades Outside Air Stream, Add	20.20	
23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
For Spring Activated Horizontal Mount Operation, Add	18.58	
For Dynamic Damper, Add	44.59	
For 3 Hour Rated, Add	24.77	
For Cap Of Damper Blades Outside Air Stream, Add	20.64	
23 33 13 16-0113 EA 48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
For Spring Activated Horizontal Mount Operation, Add	19.76	
For Dynamic Damper, Add	47.43	
For 3 Hour Rated, Add	26.35	
For Cap Of Damper Blades Outside Air Stream, Add	21.96	
23 33 13 16-0114 EA 48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.03	51.30
For Spring Activated Horizontal Mount Operation, Add	21.34	
For Dynamic Damper, Add	51.22	
For 3 Hour Rated, Add	28.46	
For Cap Of Damper Blades Outside Air Stream, Add	23.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0115 EA 48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	270.08	56.07
For Spring Activated Horizontal Mount Operation, Add	22.93	
For Dynamic Damper, Add	55.02	
For 3 Hour Rated, Add	30.57	
For Cap Of Damper Blades Outside Air Stream, Add	25.47	
23 33 13 16-0116 EA 48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	294.63	60.69
For Spring Activated Horizontal Mount Operation, Add	25.30	
For Dynamic Damper, Add	60.71	
For 3 Hour Rated, Add	33.73	
For Cap Of Damper Blades Outside Air Stream, Add	28.11	
23 33 13 16-0117 EA 48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	319.19	65.31
For Spring Activated Horizontal Mount Operation, Add	27.67	
For Dynamic Damper, Add	66.40	
For 3 Hour Rated, Add	36.89	
For Cap Of Damper Blades Outside Air Stream, Add	30.74	
23 33 13 16-0118 EA 48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	349.02	70.08
For Spring Activated Horizontal Mount Operation, Add	31.23	
For Dynamic Damper, Add	74.94	
For 3 Hour Rated, Add	41.63	
For Cap Of Damper Blades Outside Air Stream, Add	34.70	
23 33 13 16-0119 EA 48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	382.34	74.70
For Spring Activated Horizontal Mount Operation, Add	35.57	
For Dynamic Damper, Add	85.37	
For 3 Hour Rated, Add	47.43	
For Cap Of Damper Blades Outside Air Stream, Add	39.52	
23 33 13 16-0120 EA 48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	405.18	76.94
For Spring Activated Horizontal Mount Operation, Add	39.13	
For Dynamic Damper, Add	93.92	
For 3 Hour Rated, Add	52.18	
For Cap Of Damper Blades Outside Air Stream, Add	43.48	
23 33 13 16-0121 EA 48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	433.25	79.33
For Spring Activated Horizontal Mount Operation, Add	43.87	
For Dynamic Damper, Add	105.29	
For 3 Hour Rated, Add	58.49	
For Cap Of Damper Blades Outside Air Stream, Add	48.75	
23 33 13 16-0122 EA 48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	463.09	83.95
For Spring Activated Horizontal Mount Operation, Add	47.43	
For Dynamic Damper, Add	113.83	
For 3 Hour Rated, Add	63.24	
For Cap Of Damper Blades Outside Air Stream, Add	52.70	
23 33 13 16-0123 EA 48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	491.18	86.34
For Spring Activated Horizontal Mount Operation, Add	52.17	
For Dynamic Damper, Add	125.22	
For 3 Hour Rated, Add	69.56	
For Cap Of Damper Blades Outside Air Stream, Add	57.97	
23 33 13 16-0124 EA 48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.24	93.35
For Spring Activated Horizontal Mount Operation, Add	55.33	
For Dynamic Damper, Add	132.80	
For 3 Hour Rated, Add	73.78	
For Cap Of Damper Blades Outside Air Stream, Add	61.48	
23 33 13 16-0125 EA 52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	198.18	39.66
For Spring Activated Horizontal Mount Operation, Add	17.79	
For Dynamic Damper, Add	42.69	
For 3 Hour Rated, Add	23.72	
For Cap Of Damper Blades Outside Air Stream, Add	19.76	
23 33 13 16-0126 EA 52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.22	42.05
For Spring Activated Horizontal Mount Operation, Add	19.37	
For Dynamic Damper, Add	46.48	
For 3 Hour Rated, Add	25.82	
For Cap Of Damper Blades Outside Air Stream, Add	21.52	
23 33 13 16-0127 EA 52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	233.25	46.67
For Spring Activated Horizontal Mount Operation, Add	20.95	
For Dynamic Damper, Add	50.27	
For 3 Hour Rated, Add	27.93	
For Cap Of Damper Blades Outside Air Stream, Add	23.28	
23 33 13 16-0128 EA 52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	249.03	51.30
For Spring Activated Horizontal Mount Operation, Add	21.34	
For Dynamic Damper, Add	51.22	
For 3 Hour Rated, Add	28.46	
For Cap Of Damper Blades Outside Air Stream, Add	23.72	
23 33 13 16-0129 EA 52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	270.97	56.07
For Spring Activated Horizontal Mount Operation, Add	23.13	
For Dynamic Damper, Add	55.50	
For 3 Hour Rated, Add	30.83	
For Cap Of Damper Blades Outside Air Stream, Add	25.70	
23 33 13 16-0130 EA 52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	292.87	60.69
For Spring Activated Horizontal Mount Operation, Add	24.90	
For Dynamic Damper, Add	59.76	
For 3 Hour Rated, Add	33.20	
For Cap Of Damper Blades Outside Air Stream, Add	27.67	
23 33 13 16-0131 EA 52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	317.44	65.31
For Spring Activated Horizontal Mount Operation, Add	27.27	
For Dynamic Damper, Add	65.46	
For 3 Hour Rated, Add	36.37	
For Cap Of Damper Blades Outside Air Stream, Add	30.31	



Heating, Ventilating, and Air-Conditioning (HVAC) 23

HVAC Air Distribution 23 30

Air Duct Accessories 23 33

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0132	EA		52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	341.99	70.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.64	
			<i>For Dynamic Damper, Add</i>	71.15	
			<i>For 3 Hour Rated, Add</i>	39.53	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	32.94	
23 33 13 16-0133	EA		52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	371.81	74.70
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.20	
			<i>For Dynamic Damper, Add</i>	79.68	
			<i>For 3 Hour Rated, Add</i>	44.27	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	36.89	
23 33 13 16-0134	EA		52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	406.91	79.33
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.94	
			<i>For Dynamic Damper, Add</i>	91.07	
			<i>For 3 Hour Rated, Add</i>	50.59	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	42.16	
23 33 13 16-0135	EA		52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	431.47	81.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	41.89	
			<i>For Dynamic Damper, Add</i>	100.54	
			<i>For 3 Hour Rated, Add</i>	55.86	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	46.55	
23 33 13 16-0136	EA		52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	461.33	83.95
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.03	
			<i>For Dynamic Damper, Add</i>	112.88	
			<i>For 3 Hour Rated, Add</i>	62.71	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	52.26	
23 33 13 16-0137	EA		52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	496.41	88.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	51.77	
			<i>For Dynamic Damper, Add</i>	124.26	
			<i>For 3 Hour Rated, Add</i>	69.03	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	57.53	
23 33 13 16-0138	EA		52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.24	93.35
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	55.33	
			<i>For Dynamic Damper, Add</i>	132.80	
			<i>For 3 Hour Rated, Add</i>	73.78	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	61.48	
23 33 13 16-0139	EA		52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	568.34	100.36
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.08	
			<i>For Dynamic Damper, Add</i>	144.19	
			<i>For 3 Hour Rated, Add</i>	80.10	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	66.75	
23 33 13 16-0140	EA		52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	599.93	104.97
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	64.03	
			<i>For Dynamic Damper, Add</i>	153.67	
			<i>For 3 Hour Rated, Add</i>	85.37	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	71.15	
23 33 13 16-0141	EA		56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.71	42.05
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.58	
			<i>For Dynamic Damper, Add</i>	44.59	
			<i>For 3 Hour Rated, Add</i>	24.77	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.64	
23 33 13 16-0142	EA		56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	231.49	46.67
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.55	
			<i>For Dynamic Damper, Add</i>	49.32	
			<i>For 3 Hour Rated, Add</i>	27.40	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.84	
23 33 13 16-0143	EA		56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.79	51.30
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.74	
			<i>For Dynamic Damper, Add</i>	52.17	
			<i>For 3 Hour Rated, Add</i>	28.99	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.16	
23 33 13 16-0144	EA		56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.56	56.07
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.13	
			<i>For Dynamic Damper, Add</i>	53.12	
			<i>For 3 Hour Rated, Add</i>	29.51	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.59	
23 33 13 16-0145	EA		56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	290.24	60.69
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.31	
			<i>For Dynamic Damper, Add</i>	58.34	
			<i>For 3 Hour Rated, Add</i>	32.41	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.01	
23 33 13 16-0146	EA		56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	313.92	65.31
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.48	
			<i>For Dynamic Damper, Add</i>	63.56	
			<i>For 3 Hour Rated, Add</i>	35.31	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.43	
23 33 13 16-0147	EA		56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	337.60	70.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	28.66	
			<i>For Dynamic Damper, Add</i>	68.77	
			<i>For 3 Hour Rated, Add</i>	38.21	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	31.84	
23 33 13 16-0148	EA		56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	361.27	74.70
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.83	
			<i>For Dynamic Damper, Add</i>	73.99	
			<i>For 3 Hour Rated, Add</i>	41.11	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.26	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	396.36	79.33
For Spring Activated Horizontal Mount Operation, Add	35.57	
For Dynamic Damper, Add	85.37	
For 3 Hour Rated, Add	47.43	
For Cap Of Damper Blades Outside Air Stream, Add	39.52	
23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	424.46	81.71
For Spring Activated Horizontal Mount Operation, Add	40.32	
For Dynamic Damper, Add	96.76	
For 3 Hour Rated, Add	53.75	
For Cap Of Damper Blades Outside Air Stream, Add	44.80	
23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	450.79	83.95
For Spring Activated Horizontal Mount Operation, Add	44.66	
For Dynamic Damper, Add	107.19	
For 3 Hour Rated, Add	59.55	
For Cap Of Damper Blades Outside Air Stream, Add	49.63	
23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	489.40	88.72
For Spring Activated Horizontal Mount Operation, Add	50.20	
For Dynamic Damper, Add	120.47	
For 3 Hour Rated, Add	66.93	
For Cap Of Damper Blades Outside Air Stream, Add	55.78	
23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	524.48	93.35
For Spring Activated Horizontal Mount Operation, Add	54.94	
For Dynamic Damper, Add	131.85	
For 3 Hour Rated, Add	73.25	
For Cap Of Damper Blades Outside Air Stream, Add	61.04	
23 33 13 16-0154 EA 56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	561.34	97.97
For Spring Activated Horizontal Mount Operation, Add	60.08	
For Dynamic Damper, Add	144.19	
For 3 Hour Rated, Add	80.10	
For Cap Of Damper Blades Outside Air Stream, Add	66.75	
23 33 13 16-0155 EA 56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	592.92	102.73
For Spring Activated Horizontal Mount Operation, Add	64.03	
For Dynamic Damper, Add	153.67	
For 3 Hour Rated, Add	85.37	
For Cap Of Damper Blades Outside Air Stream, Add	71.15	
23 33 13 16-0156 EA 56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	629.77	107.36
For Spring Activated Horizontal Mount Operation, Add	69.17	
For Dynamic Damper, Add	166.00	
For 3 Hour Rated, Add	92.22	
For Cap Of Damper Blades Outside Air Stream, Add	76.85	
23 33 13 16-0157 EA 56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	666.63	111.98
For Spring Activated Horizontal Mount Operation, Add	74.31	
For Dynamic Damper, Add	178.34	
For 3 Hour Rated, Add	99.08	
For Cap Of Damper Blades Outside Air Stream, Add	82.56	
23 33 13 16-0158 EA 60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.99	46.67
For Spring Activated Horizontal Mount Operation, Add	19.76	
For Dynamic Damper, Add	47.43	
For 3 Hour Rated, Add	26.35	
For Cap Of Damper Blades Outside Air Stream, Add	21.96	
23 33 13 16-0159 EA 60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	250.79	51.30
For Spring Activated Horizontal Mount Operation, Add	21.74	
For Dynamic Damper, Add	52.17	
For 3 Hour Rated, Add	28.99	
For Cap Of Damper Blades Outside Air Stream, Add	24.16	
23 33 13 16-0160 EA 60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	268.32	56.07
For Spring Activated Horizontal Mount Operation, Add	22.53	
For Dynamic Damper, Add	54.07	
For 3 Hour Rated, Add	30.04	
For Cap Of Damper Blades Outside Air Stream, Add	25.03	
23 33 13 16-0161 EA 60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.09	60.69
For Spring Activated Horizontal Mount Operation, Add	22.93	
For Dynamic Damper, Add	55.02	
For 3 Hour Rated, Add	30.57	
For Cap Of Damper Blades Outside Air Stream, Add	25.47	
23 33 13 16-0162 EA 60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.65	65.31
For Spring Activated Horizontal Mount Operation, Add	25.30	
For Dynamic Damper, Add	60.71	
For 3 Hour Rated, Add	33.73	
For Cap Of Damper Blades Outside Air Stream, Add	28.11	
23 33 13 16-0163 EA 60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	333.21	70.08
For Spring Activated Horizontal Mount Operation, Add	27.67	
For Dynamic Damper, Add	66.40	
For 3 Hour Rated, Add	36.89	
For Cap Of Damper Blades Outside Air Stream, Add	30.74	
23 33 13 16-0164 EA 60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	358.63	74.70
For Spring Activated Horizontal Mount Operation, Add	30.24	
For Dynamic Damper, Add	72.57	
For 3 Hour Rated, Add	40.31	
For Cap Of Damper Blades Outside Air Stream, Add	33.60	
23 33 13 16-0165 EA 60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	384.07	79.33
For Spring Activated Horizontal Mount Operation, Add	32.81	
For Dynamic Damper, Add	78.73	
For 3 Hour Rated, Add	43.74	
For Cap Of Damper Blades Outside Air Stream, Add	36.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0166	EA		60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	413.92 37.94 91.07 50.59 42.16	81.71
23 33 13 16-0167	EA		60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	442.00 42.68 102.44 56.91 47.43	83.95
23 33 13 16-0168	EA		60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	478.86 47.83 114.78 63.77 53.14	88.72
23 33 13 16-0169	EA		60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	515.71 52.97 127.12 70.62 58.85	93.35
23 33 13 16-0170	EA		60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	547.29 56.92 136.60 75.89 63.24	97.97
23 33 13 16-0171	EA		60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	589.40 63.24 151.77 84.32 70.27	102.73
23 33 13 16-0172	EA		60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	628.01 68.77 165.05 91.70 76.41	107.36
23 33 13 16-0173	EA		60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	666.63 74.31 178.34 99.08 82.56	111.98
23 33 13 16-0174	EA		60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	701.70 79.04 189.71 105.39 87.83	116.75
23 33 13 16-0175	EA		60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i> <i>For Cap Of Damper Blades Outside Air Stream, Add</i>	736.83 83.79 201.11 111.73 93.11	121.38
23 33 13 16-0176			Parallel Blade Louver Fire Damper <small>(23 33 13 16)</small> Note: UL listed. 22 gauge galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.		
23 33 13 16-0177	EA		6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	97.57 11.45 27.49 15.27	15.56
23 33 13 16-0178	EA		8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	101.85 11.94 28.66 15.92	16.26
23 33 13 16-0179	EA		8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	104.34 12.44 29.85 16.58	16.40
23 33 13 16-0180	EA		10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	104.34 12.44 29.85 16.58	16.40
23 33 13 16-0181	EA		10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	107.94 12.93 31.04 17.24	16.82
23 33 13 16-0182	EA		10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	117.93 13.92 33.40 18.56	18.65
23 33 13 16-0183	EA		12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	107.94 12.93 31.04 17.24	16.82

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0184 EA 12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	115.12	17.80
For Spring Activated Horizontal Mount Operation, Add	13.92	
For Dynamic Damper, Add	33.40	
For 3 Hour Rated, Add	18.56	
23 33 13 16-0185 EA 12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.13	18.65
For Spring Activated Horizontal Mount Operation, Add	14.41	
For Dynamic Damper, Add	34.59	
For 3 Hour Rated, Add	19.22	
23 33 13 16-0186 EA 12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	129.33	21.02
For Spring Activated Horizontal Mount Operation, Add	14.91	
For Dynamic Damper, Add	35.78	
For 3 Hour Rated, Add	19.88	
23 33 13 16-0187 EA 14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	114.03	17.80
For Spring Activated Horizontal Mount Operation, Add	13.67	
For Dynamic Damper, Add	32.82	
For 3 Hour Rated, Add	18.23	
23 33 13 16-0188 EA 14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.13	18.65
For Spring Activated Horizontal Mount Operation, Add	14.41	
For Dynamic Damper, Add	34.59	
For 3 Hour Rated, Add	19.22	
23 33 13 16-0189 EA 14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	125.12	19.62
For Spring Activated Horizontal Mount Operation, Add	14.91	
For Dynamic Damper, Add	35.78	
For 3 Hour Rated, Add	19.88	
23 33 13 16-0190 EA 14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.52	21.02
For Spring Activated Horizontal Mount Operation, Add	15.40	
For Dynamic Damper, Add	36.96	
For 3 Hour Rated, Add	20.54	
23 33 13 16-0191 EA 14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	144.03	23.40
For Spring Activated Horizontal Mount Operation, Add	16.64	
For Dynamic Damper, Add	39.93	
For 3 Hour Rated, Add	22.19	
23 33 13 16-0192 EA 16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.55	18.65
For Spring Activated Horizontal Mount Operation, Add	20.13	
For Dynamic Damper, Add	48.32	
For 3 Hour Rated, Add	26.84	
23 33 13 16-0193 EA 16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	152.21	20.04
For Spring Activated Horizontal Mount Operation, Add	20.69	
For Dynamic Damper, Add	49.65	
For 3 Hour Rated, Add	27.58	
23 33 13 16-0194 EA 16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.28	22.00
For Spring Activated Horizontal Mount Operation, Add	21.24	
For Dynamic Damper, Add	50.98	
For 3 Hour Rated, Add	28.32	
23 33 13 16-0195 EA 16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	166.93	23.40
For Spring Activated Horizontal Mount Operation, Add	21.79	
For Dynamic Damper, Add	52.30	
For 3 Hour Rated, Add	29.06	
23 33 13 16-0196 EA 16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	180.11	25.64
For Spring Activated Horizontal Mount Operation, Add	23.18	
For Dynamic Damper, Add	55.63	
For 3 Hour Rated, Add	30.91	
23 33 13 16-0197 EA 16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	193.27	28.03
For Spring Activated Horizontal Mount Operation, Add	24.56	
For Dynamic Damper, Add	58.95	
For 3 Hour Rated, Add	32.75	
23 33 13 16-0198 EA 18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.80	19.62
For Spring Activated Horizontal Mount Operation, Add	20.69	
For Dynamic Damper, Add	49.65	
For 3 Hour Rated, Add	27.58	
23 33 13 16-0199 EA 18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	158.70	21.02
For Spring Activated Horizontal Mount Operation, Add	21.52	
For Dynamic Damper, Add	51.64	
For 3 Hour Rated, Add	28.69	
23 33 13 16-0200 EA 18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	169.42	23.40
For Spring Activated Horizontal Mount Operation, Add	22.35	
For Dynamic Damper, Add	53.64	
For 3 Hour Rated, Add	29.80	
23 33 13 16-0201 EA 18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	182.57	25.64
For Spring Activated Horizontal Mount Operation, Add	23.73	
For Dynamic Damper, Add	56.96	
For 3 Hour Rated, Add	31.64	
23 33 13 16-0202 EA 18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	194.49	28.03
For Spring Activated Horizontal Mount Operation, Add	24.84	
For Dynamic Damper, Add	59.61	
For 3 Hour Rated, Add	33.12	
23 33 13 16-0203 EA 18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	207.64	30.27
For Spring Activated Horizontal Mount Operation, Add	26.22	
For Dynamic Damper, Add	62.93	
For 3 Hour Rated, Add	34.96	
23 33 13 16-0204 EA 18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	218.34	32.65
For Spring Activated Horizontal Mount Operation, Add	27.05	
For Dynamic Damper, Add	64.92	
For 3 Hour Rated, Add	36.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0205 EA 20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	157.48 21.24 50.98 28.32	21.02
23 33 13 16-0206 EA 20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	169.39 22.34 53.63 29.79	23.40
23 33 13 16-0207 EA 20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	181.33 23.45 56.29 31.27	25.64
23 33 13 16-0208 EA 20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	198.20 25.67 61.61 34.23	28.03
23 33 13 16-0209 EA 20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	208.88 26.50 63.60 35.33	30.27
23 33 13 16-0210 EA 20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	219.57 27.33 65.59 36.44	32.65
23 33 13 16-0211 EA 20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	231.49 28.44 68.25 37.91	35.04
23 33 13 16-0212 EA 20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	243.40 29.54 70.89 39.38	37.28
23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	192.01 27.43 65.84 36.58	23.40
23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	206.41 29.10 69.83 38.80	25.64
23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.35 30.21 72.50 40.28	28.03
23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	232.71 31.86 76.47 42.48	30.27
23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	243.41 32.69 78.46 43.59	32.65
23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	254.10 33.52 80.45 44.70	35.04
23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	268.48 35.18 84.43 46.91	37.28
23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	289.87 36.84 88.41 49.12	42.05
23 33 13 16-0221 EA 24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	313.73 39.06 93.73 52.07	46.67
23 33 13 16-0222 EA 28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	206.41 29.10 69.83 38.80	25.64
23 33 13 16-0223 EA 28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.35 30.21 72.50 40.28	28.03
23 33 13 16-0224 EA 28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	232.71 31.86 76.47 42.48	30.27
23 33 13 16-0225 EA 28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	244.64 32.97 79.13 43.96	32.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0226	EA		28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	257.79 34.35 82.45 45.80	35.04
23 33 13 16-0227	EA		28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	270.92 35.73 85.75 47.64	37.28
23 33 13 16-0228	EA		28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	292.33 37.39 89.74 49.86	42.05
23 33 13 16-0229	EA		28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	313.73 39.06 93.73 52.07	46.67
23 33 13 16-0230	EA		28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	335.49 42.37 101.70 56.50	49.06
23 33 13 16-0231	EA		28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.82 45.14 108.35 60.19	53.68
23 33 13 16-0232	EA		32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	225.71 31.86 76.47 42.48	28.03
23 33 13 16-0233	EA		32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	235.16 32.41 77.79 43.22	30.27
23 33 13 16-0234	EA		32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	244.64 32.97 79.13 43.96	32.65
23 33 13 16-0235	EA		32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	256.54 34.07 81.77 45.43	35.04
23 33 13 16-0236	EA		32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	271.40 35.84 86.01 47.78	37.28
23 33 13 16-0237	EA		32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	292.33 37.39 89.74 49.86	42.05
23 33 13 16-0238	EA		32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	316.20 39.61 95.07 52.82	46.67
23 33 13 16-0239	EA		32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	340.06 41.83 100.38 55.77	51.30
23 33 13 16-0240	EA		32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.82 45.14 108.35 60.19	53.68
23 33 13 16-0241	EA		32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	390.25 49.02 117.64 65.36	57.46
23 33 13 16-0242	EA		32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	419.72 53.44 128.26 71.26	60.69
23 33 13 16-0243	EA		36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	252.74 36.37 87.29 48.49	30.27
23 33 13 16-0244	EA		36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	265.35 37.63 90.31 50.17	32.65
23 33 13 16-0245	EA		36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	277.97 38.89 93.34 51.86	35.04
23 33 13 16-0246	EA		36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	293.43 40.79 97.91 54.39	37.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0247 EA 36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	311.68 41.75 100.19 55.66	42.05
23 33 13 16-0248 EA 36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	322.90 42.69 102.47 56.93	44.29
23 33 13 16-0249 EA 36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	357.98 45.86 110.06 61.14	51.30
23 33 13 16-0250 EA 36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	386.03 49.01 117.63 65.35	56.07
23 33 13 16-0251 EA 36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	408.50 52.81 126.74 70.41	57.89
23 33 13 16-0252 EA 36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	443.60 57.87 138.88 77.16	62.09
23 33 13 16-0253 EA 36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.07 62.29 149.50 83.06	65.31
23 33 13 16-0254 EA 36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	502.57 67.35 161.64 89.80	67.69
23 33 13 16-0255 EA 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	282.69 41.53 99.67 55.37	35.04
23 33 13 16-0256 EA 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	300.94 44.06 105.75 58.75	37.28
23 33 13 16-0257 EA 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.75 44.69 107.26 59.59	39.66
23 33 13 16-0258 EA 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	320.58 45.33 108.78 60.44	42.05
23 33 13 16-0259 EA 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	344.45 47.54 114.10 63.39	44.29
23 33 13 16-0260 EA 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	361.28 49.75 119.41 66.34	46.67
23 33 13 16-0261 EA 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	393.56 52.29 125.49 69.71	53.68
23 33 13 16-0262 EA 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	418.82 54.81 131.55 73.09	58.31
23 33 13 16-0263 EA 40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	446.90 58.61 140.66 78.15	62.09
23 33 13 16-0264 EA 40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.62 65.57 157.36 87.42	65.31
23 33 13 16-0265 EA 40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	515.68 69.36 166.46 92.48	69.10
23 33 13 16-0266 EA 40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	552.21 76.32 183.16 101.75	70.92
23 33 13 16-0267 EA 40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	591.54 82.64 198.34 110.19	74.70

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0268 EA 44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	295.32	35.04
For Spring Activated Horizontal Mount Operation, Add	42.80	
For Dynamic Damper, Add	102.71	
For 3 Hour Rated, Add	57.06	
23 33 13 16-0269 EA 44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	313.57	37.28
For Spring Activated Horizontal Mount Operation, Add	45.33	
For Dynamic Damper, Add	108.78	
For 3 Hour Rated, Add	60.44	
23 33 13 16-0270 EA 44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	329.03	39.66
For Spring Activated Horizontal Mount Operation, Add	47.23	
For Dynamic Damper, Add	113.35	
For 3 Hour Rated, Add	62.97	
23 33 13 16-0271 EA 44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	338.85	42.05
For Spring Activated Horizontal Mount Operation, Add	47.86	
For Dynamic Damper, Add	114.86	
For 3 Hour Rated, Add	63.81	
23 33 13 16-0272 EA 44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	357.11	44.29
For Spring Activated Horizontal Mount Operation, Add	50.39	
For Dynamic Damper, Add	120.94	
For 3 Hour Rated, Add	67.19	
23 33 13 16-0273 EA 44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	375.35	46.67
For Spring Activated Horizontal Mount Operation, Add	52.92	
For Dynamic Damper, Add	127.01	
For 3 Hour Rated, Add	70.56	
23 33 13 16-0274 EA 44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	417.44	56.07
For Spring Activated Horizontal Mount Operation, Add	56.08	
For Dynamic Damper, Add	134.60	
For 3 Hour Rated, Add	74.78	
23 33 13 16-0275 EA 44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	445.49	60.69
For Spring Activated Horizontal Mount Operation, Add	59.24	
For Dynamic Damper, Add	142.18	
For 3 Hour Rated, Add	78.99	
23 33 13 16-0276 EA 44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	487.62	65.31
For Spring Activated Horizontal Mount Operation, Add	65.57	
For Dynamic Damper, Add	157.36	
For 3 Hour Rated, Add	87.42	
23 33 13 16-0277 EA 44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	526.94	70.08
For Spring Activated Horizontal Mount Operation, Add	71.26	
For Dynamic Damper, Add	171.02	
For 3 Hour Rated, Add	95.01	
23 33 13 16-0278 EA 44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	569.03	74.70
For Spring Activated Horizontal Mount Operation, Add	77.58	
For Dynamic Damper, Add	186.18	
For 3 Hour Rated, Add	103.43	
23 33 13 16-0279 EA 44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	601.34	76.94
For Spring Activated Horizontal Mount Operation, Add	83.27	
For Dynamic Damper, Add	199.84	
For 3 Hour Rated, Add	111.02	
23 33 13 16-0280 EA 44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	633.66	79.33
For Spring Activated Horizontal Mount Operation, Add	88.96	
For Dynamic Damper, Add	213.51	
For 3 Hour Rated, Add	118.62	
23 33 13 16-0281 EA 44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	665.97	81.71
For Spring Activated Horizontal Mount Operation, Add	94.66	
For Dynamic Damper, Add	227.17	
For 3 Hour Rated, Add	126.21	
23 33 13 16-0282 EA 48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	310.75	37.28
For Spring Activated Horizontal Mount Operation, Add	44.69	
For Dynamic Damper, Add	107.26	
For 3 Hour Rated, Add	59.59	
23 33 13 16-0283 EA 48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	329.03	39.66
For Spring Activated Horizontal Mount Operation, Add	47.23	
For Dynamic Damper, Add	113.35	
For 3 Hour Rated, Add	62.97	
23 33 13 16-0284 EA 48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	338.85	42.05
For Spring Activated Horizontal Mount Operation, Add	47.86	
For Dynamic Damper, Add	114.86	
For 3 Hour Rated, Add	63.81	
23 33 13 16-0285 EA 48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	361.28	46.67
For Spring Activated Horizontal Mount Operation, Add	49.75	
For Dynamic Damper, Add	119.41	
For 3 Hour Rated, Add	66.34	
23 33 13 16-0286 EA 48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	386.55	51.30
For Spring Activated Horizontal Mount Operation, Add	52.29	
For Dynamic Damper, Add	125.49	
For 3 Hour Rated, Add	69.71	
23 33 13 16-0287 EA 48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	411.81	56.07
For Spring Activated Horizontal Mount Operation, Add	54.81	
For Dynamic Damper, Add	131.55	
For 3 Hour Rated, Add	73.09	
23 33 13 16-0288 EA 48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	442.69	60.69
For Spring Activated Horizontal Mount Operation, Add	58.61	
For Dynamic Damper, Add	140.66	
For 3 Hour Rated, Add	78.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0289 EA 48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.56 62.40 149.76 83.20	65.31
23 33 13 16-0290 EA 48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	512.89 68.10 163.43 90.80	70.08
23 33 13 16-0291 EA 48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	557.79 75.05 180.11 100.06	74.70
23 33 13 16-0292 EA 48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	590.12 80.74 193.78 107.66	76.94
23 33 13 16-0293 EA 48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	630.84 88.33 211.99 117.77	79.33
23 33 13 16-0294 EA 48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	670.18 94.03 225.66 125.37	83.95
23 33 13 16-0295 EA 48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	710.90 101.61 243.86 135.48	86.34
23 33 13 16-0296 EA 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	754.40 106.67 256.01 142.23	93.35
23 33 13 16-0297 EA 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	326.21 46.59 111.82 62.12	39.66
23 33 13 16-0298 EA 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	344.47 49.12 117.90 65.50	42.05
23 33 13 16-0299 EA 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	369.72 51.65 123.97 68.87	46.67
23 33 13 16-0300 EA 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	386.55 52.29 125.49 69.71	51.30
23 33 13 16-0301 EA 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	413.23 55.13 132.32 73.51	56.07
23 33 13 16-0302 EA 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	439.87 57.98 139.14 77.30	60.69
23 33 13 16-0303 EA 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	470.76 61.77 148.25 82.36	65.31
23 33 13 16-0304 EA 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	501.64 65.57 157.36 87.42	70.08
23 33 13 16-0305 EA 52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	540.95 71.26 171.02 95.01	74.70
23 33 13 16-0306 EA 52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	588.68 78.84 189.22 105.12	79.33
23 33 13 16-0307 EA 52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	623.80 85.17 204.40 113.56	81.71
23 33 13 16-0308 EA 52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	667.36 93.39 224.14 124.52	83.95
23 33 13 16-0309 EA 52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	715.07 100.97 242.34 134.63	88.72

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0310 EA 52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	754.40	93.35
For Spring Activated Horizontal Mount Operation, Add	106.67	
For Dynamic Damper, Add	256.01	
For 3 Hour Rated, Add	142.23	
23 33 13 16-0311 EA 52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	809.14	100.36
For Spring Activated Horizontal Mount Operation, Add	114.26	
For Dynamic Damper, Add	274.22	
For 3 Hour Rated, Add	152.34	
23 33 13 16-0312 EA 52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	851.27	104.97
For Spring Activated Horizontal Mount Operation, Add	120.58	
For Dynamic Damper, Add	289.40	
For 3 Hour Rated, Add	160.78	
23 33 13 16-0313 EA 56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	338.85	42.05
For Spring Activated Horizontal Mount Operation, Add	47.86	
For Dynamic Damper, Add	114.86	
For 3 Hour Rated, Add	63.81	
23 33 13 16-0314 EA 56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	366.90	46.67
For Spring Activated Horizontal Mount Operation, Add	51.02	
For Dynamic Damper, Add	122.45	
For 3 Hour Rated, Add	68.03	
23 33 13 16-0315 EA 56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.37	51.30
For Spring Activated Horizontal Mount Operation, Add	52.92	
For Dynamic Damper, Add	127.01	
For 3 Hour Rated, Add	70.56	
23 33 13 16-0316 EA 56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	406.18	56.07
For Spring Activated Horizontal Mount Operation, Add	53.55	
For Dynamic Damper, Add	128.51	
For 3 Hour Rated, Add	71.40	
23 33 13 16-0317 EA 56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	435.67	60.69
For Spring Activated Horizontal Mount Operation, Add	57.03	
For Dynamic Damper, Add	136.87	
For 3 Hour Rated, Add	76.04	
23 33 13 16-0318 EA 56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	465.14	65.31
For Spring Activated Horizontal Mount Operation, Add	60.51	
For Dynamic Damper, Add	145.22	
For 3 Hour Rated, Add	80.68	
23 33 13 16-0319 EA 56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	494.62	70.08
For Spring Activated Horizontal Mount Operation, Add	63.99	
For Dynamic Damper, Add	153.57	
For 3 Hour Rated, Add	85.31	
23 33 13 16-0320 EA 56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	524.07	74.70
For Spring Activated Horizontal Mount Operation, Add	67.46	
For Dynamic Damper, Add	161.90	
For 3 Hour Rated, Add	89.95	
23 33 13 16-0321 EA 56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	571.81	79.33
For Spring Activated Horizontal Mount Operation, Add	75.05	
For Dynamic Damper, Add	180.11	
For 3 Hour Rated, Add	100.06	
23 33 13 16-0322 EA 56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	612.57	81.71
For Spring Activated Horizontal Mount Operation, Add	82.64	
For Dynamic Damper, Add	198.34	
For 3 Hour Rated, Add	110.19	
23 33 13 16-0323 EA 56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	650.48	83.95
For Spring Activated Horizontal Mount Operation, Add	89.59	
For Dynamic Damper, Add	215.02	
For 3 Hour Rated, Add	119.46	
23 33 13 16-0324 EA 56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	703.85	88.72
For Spring Activated Horizontal Mount Operation, Add	98.45	
For Dynamic Damper, Add	236.28	
For 3 Hour Rated, Add	131.27	
23 33 13 16-0325 EA 56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	751.58	93.35
For Spring Activated Horizontal Mount Operation, Add	106.04	
For Dynamic Damper, Add	254.49	
For 3 Hour Rated, Add	141.38	
23 33 13 16-0326 EA 56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	802.14	97.97
For Spring Activated Horizontal Mount Operation, Add	114.26	
For Dynamic Damper, Add	274.22	
For 3 Hour Rated, Add	152.34	
23 33 13 16-0327 EA 56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	844.26	102.73
For Spring Activated Horizontal Mount Operation, Add	120.58	
For Dynamic Damper, Add	289.40	
For 3 Hour Rated, Add	160.78	
23 33 13 16-0328 EA 56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	894.82	107.36
For Spring Activated Horizontal Mount Operation, Add	128.80	
For Dynamic Damper, Add	309.13	
For 3 Hour Rated, Add	171.74	
23 33 13 16-0329 EA 56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	945.38	111.98
For Spring Activated Horizontal Mount Operation, Add	137.03	
For Dynamic Damper, Add	328.86	
For 3 Hour Rated, Add	182.70	
23 33 13 16-0330 EA 60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	361.28	46.67
For Spring Activated Horizontal Mount Operation, Add	49.75	
For Dynamic Damper, Add	119.41	
For 3 Hour Rated, Add	66.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0331 EA 60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.37 52.92 127.01 70.56	51.30
23 33 13 16-0332 EA 60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	408.99 54.18 130.03 72.24	56.07
23 33 13 16-0333 EA 60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	425.82 54.81 131.55 73.09	60.69
23 33 13 16-0334 EA 60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	456.71 58.61 140.66 78.15	65.31
23 33 13 16-0335 EA 60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.58 62.40 149.76 83.20	70.08
23 33 13 16-0336 EA 60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	519.86 66.51 159.63 88.68	74.70
23 33 13 16-0337 EA 60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	552.15 70.62 169.50 94.16	79.33
23 33 13 16-0338 EA 60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	595.69 78.84 189.22 105.12	81.71
23 33 13 16-0339 EA 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	636.43 86.43 207.44 115.24	83.95
23 33 13 16-0340 EA 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	686.99 94.66 227.17 126.21	88.72
23 33 13 16-0341 EA 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	737.54 102.88 246.90 137.17	93.35
23 33 13 16-0342 EA 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	779.66 109.20 262.08 145.60	97.97
23 33 13 16-0343 EA 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	838.63 119.32 286.36 159.09	102.73
23 33 13 16-0344 EA 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	892.00 128.17 307.61 170.89	107.36
23 33 13 16-0345 EA 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	945.38 137.03 328.86 182.70	111.98
23 33 13 16-0346 EA 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	993.09 144.61 347.06 192.81	116.75
23 33 13 16-0347 EA 60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,040.87 152.20 365.29 202.94	121.38
23 33 13 16-0348 Round 2 Hour Fire Damper <small>(23 33 13 16)</small>		
23 33 13 16-0349 EA 4" Round 2 Hour Fire Damper	83.91	28.03
23 33 13 16-0350 EA 5" Round 2 Hour Fire Damper	85.90	28.03
23 33 13 16-0351 EA 6" Round 2 Hour Fire Damper	99.52	31.82
23 33 13 16-0352 EA 7" Round 2 Hour Fire Damper	101.68	31.82
23 33 13 16-0353 EA 8" Round 2 Hour Fire Damper	117.81	35.04
23 33 13 16-0354 EA 9" Round 2 Hour Fire Damper	123.78	35.04
23 33 13 16-0355 EA 10" Round 2 Hour Fire Damper	137.54	38.96
23 33 13 16-0356 EA 12" Round 2 Hour Fire Damper	154.59	43.87
23 33 13 16-0357 EA 14" Round 2 Hour Fire Damper	176.07	50.03
23 33 13 16-0358 Round 4 Hour Fire Damper <small>(23 33 13 16)</small>		
23 33 13 16-0359 EA 4" Round 4 Hour Fire Damper	94.89	31.82
23 33 13 16-0360 EA 5" Round 4 Hour Fire Damper	100.32	31.82

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0361 EA 6" Round 4 Hour Fire Damper	112.19	35.04
23 33 13 16-0362 EA 7" Round 4 Hour Fire Damper	119.20	35.04
23 33 13 16-0363 EA 8" Round 4 Hour Fire Damper	134.01	38.96
23 33 13 16-0364 EA 9" Round 4 Hour Fire Damper	138.28	38.96
23 33 13 16-0365 EA 10" Round 4 Hour Fire Damper	154.72	43.87
23 33 13 16-0366 EA 12" Round 4 Hour Fire Damper	173.35	50.03
23 33 13 16-0367 EA 14" Round 4 Hour Fire Damper	202.24	58.45

23 33 13 19 Smoke-Control Dampers (23 33 13)**23 33 13 19-0001 Combination Smoke/Fire Damper (23 33 13 19)**

Note: Leakage class I with Firestat UL 555S air foil blades.

23 33 13 19-0002 EA 6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	248.46	23.33
For 3 Hour Rated, Add	53.54	
23 33 13 19-0003 EA 8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	255.96	24.39
For 3 Hour Rated, Add	54.84	
23 33 13 19-0004 EA 8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.81	24.60
For 3 Hour Rated, Add	56.17	
23 33 13 19-0005 EA 10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.81	24.60
For 3 Hour Rated, Add	56.17	
23 33 13 19-0006 EA 10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	267.29	25.23
For 3 Hour Rated, Add	57.48	
23 33 13 19-0007 EA 10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.50	27.96
For 3 Hour Rated, Add	60.12	
23 33 13 19-0008 EA 12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	267.29	25.23
For 3 Hour Rated, Add	57.48	
23 33 13 19-0009 EA 12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	280.29	26.70
For 3 Hour Rated, Add	60.12	
23 33 13 19-0010 EA 12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	288.88	27.96
For 3 Hour Rated, Add	61.43	
23 33 13 19-0011 EA 12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	303.79	31.54
For 3 Hour Rated, Add	62.76	
23 33 13 19-0012 EA 14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	278.09	26.70
For 3 Hour Rated, Add	59.46	
23 33 13 19-0013 EA 14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	288.88	27.96
For 3 Hour Rated, Add	61.43	
23 33 13 19-0014 EA 14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	297.49	29.44
For 3 Hour Rated, Add	62.76	
23 33 13 19-0015 EA 14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	308.21	31.54
For 3 Hour Rated, Add	64.08	
23 33 13 19-0016 EA 14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	329.70	35.11
For 3 Hour Rated, Add	67.38	
23 33 13 19-0017 EA 16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	449.62	27.96
For 3 Hour Rated, Add	109.66	
23 33 13 19-0018 EA 16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	460.33	30.06
For 3 Hour Rated, Add	110.98	
23 33 13 19-0019 EA 16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	473.15	33.01
For 3 Hour Rated, Add	112.30	
23 33 13 19-0020 EA 16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	483.81	35.11
For 3 Hour Rated, Add	113.61	
23 33 13 19-0021 EA 16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	505.35	38.48
For 3 Hour Rated, Add	116.92	
23 33 13 19-0022 EA 16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.84	42.05
For 3 Hour Rated, Add	120.21	
23 33 13 19-0023 EA 18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	458.23	29.44
For 3 Hour Rated, Add	110.98	
23 33 13 19-0024 EA 18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	471.11	31.54
For 3 Hour Rated, Add	112.95	
23 33 13 19-0025 EA 18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	488.25	35.11
For 3 Hour Rated, Add	114.94	
23 33 13 19-0026 EA 18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	509.76	38.48
For 3 Hour Rated, Add	118.24	
23 33 13 19-0027 EA 18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	529.04	42.05
For 3 Hour Rated, Add	120.87	
23 33 13 19-0028 EA 18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	550.53	45.41
For 3 Hour Rated, Add	124.16	
23 33 13 19-0029 EA 18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	567.65	48.99
For 3 Hour Rated, Add	126.15	
23 33 13 19-0030 EA 20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	468.94	31.54
For 3 Hour Rated, Add	112.30	
23 33 13 19-0031 EA 20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	488.22	35.11
For 3 Hour Rated, Add	114.93	
23 33 13 19-0032 EA 20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	507.54	38.48
For 3 Hour Rated, Add	117.57	
23 33 13 19-0033 EA 20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	535.67	42.05
For 3 Hour Rated, Add	122.86	
23 33 13 19-0034 EA 20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	552.76	45.41
For 3 Hour Rated, Add	124.83	
23 33 13 19-0035 EA 20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	569.84	48.99
For 3 Hour Rated, Add	126.80	
23 33 13 19-0036 EA 20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	589.16	52.56
For 3 Hour Rated, Add	129.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0037 EA 20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	608.44 <i>132.08</i>	55.93
23 33 13 19-0038 EA 24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	667.95 <i>168.85</i>	35.11
23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	691.68 <i>172.82</i>	38.48
23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	711.02 <i>175.46</i>	42.05
23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	734.68 <i>179.41</i>	45.41
23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	751.80 <i>181.39</i>	48.99
23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	768.89 <i>183.36</i>	52.56
23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	792.58 <i>187.32</i>	55.93
23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	826.78 <i>191.27</i>	63.07
23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	865.41 <i>196.55</i>	70.01
23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	691.68 <i>172.82</i>	38.48
23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	711.02 <i>175.46</i>	42.05
23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	734.68 <i>179.41</i>	45.41
23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	753.99 <i>182.05</i>	48.99
23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	775.50 <i>185.35</i>	52.56
23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	796.97 <i>188.63</i>	55.93
23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	831.17 <i>192.59</i>	63.07
23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	865.41 <i>196.55</i>	70.01
23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	902.28 <i>204.46</i>	73.59
23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	945.27 <i>211.05</i>	80.53
23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	724.17 <i>179.41</i>	42.05
23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	739.06 <i>180.72</i>	45.41
23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	753.99 <i>182.05</i>	48.99
23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	773.28 <i>184.68</i>	52.56
23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	797.78 <i>188.88</i>	55.93
23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	831.17 <i>192.59</i>	63.07
23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	869.82 <i>197.87</i>	70.01
23 33 13 19-0064 EA 32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	908.43 <i>203.15</i>	76.94
23 33 13 19-0065 EA 32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	945.27 <i>211.05</i>	80.53
23 33 13 19-0066 EA 32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	992.90 <i>220.29</i>	86.20
23 33 13 19-0067 EA 32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,042.74 <i>230.83</i>	91.03
23 33 13 19-0068 EA 36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	761.63 <i>187.49</i>	45.41
23 33 13 19-0069 EA 36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	781.66 <i>190.35</i>	48.99
23 33 13 19-0070 EA 36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	801.74 <i>193.22</i>	52.56
23 33 13 19-0071 EA 36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	826.60 <i>197.52</i>	55.93
23 33 13 19-0072 EA 36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	854.81 <i>199.68</i>	63.07
23 33 13 19-0073 EA 36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	872.49 <i>201.83</i>	66.44
23 33 13 19-0074 EA 36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	927.93 <i>209.00</i>	76.94
23 33 13 19-0075 EA 36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	972.80 <i>216.15</i>	84.10
23 33 13 19-0076 EA 36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,009.87 <i>224.75</i>	86.83
23 33 13 19-0077 EA 36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,067.02 <i>236.22</i>	93.14
23 33 13 19-0078 EA 36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For 3 Hour Rated, Add</i>	1,115.14 <i>246.24</i>	97.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0079	EA		36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,163.88	101.54
			<i>For 3 Hour Rated, Add</i>	257.71	
23 33 13 19-0080	EA		40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	937.64	52.56
			<i>For 3 Hour Rated, Add</i>	237.14	
23 33 13 19-0081	EA		40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	967.24	55.93
			<i>For 3 Hour Rated, Add</i>	242.87	
23 33 13 19-0082	EA		40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	982.54	59.50
			<i>For 3 Hour Rated, Add</i>	244.31	
23 33 13 19-0083	EA		40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	997.85	63.07
			<i>For 3 Hour Rated, Add</i>	245.75	
23 33 13 19-0084	EA		40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,035.59	66.44
			<i>For 3 Hour Rated, Add</i>	250.76	
23 33 13 19-0085	EA		40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,062.85	70.01
			<i>For 3 Hour Rated, Add</i>	255.78	
23 33 13 19-0086	EA		40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,113.49	80.53
			<i>For 3 Hour Rated, Add</i>	261.52	
23 33 13 19-0087	EA		40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,153.61	87.45
			<i>For 3 Hour Rated, Add</i>	267.24	
23 33 13 19-0088	EA		40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,199.12	93.14
			<i>For 3 Hour Rated, Add</i>	275.85	
23 33 13 19-0089	EA		40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,266.35	97.97
			<i>For 3 Hour Rated, Add</i>	291.61	
23 33 13 19-0090	EA		40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,311.81	103.65
			<i>For 3 Hour Rated, Add</i>	300.20	
23 33 13 19-0091	EA		40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,372.80	106.38
			<i>For 3 Hour Rated, Add</i>	315.97	
23 33 13 19-0092	EA		40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,437.40	112.05
			<i>For 3 Hour Rated, Add</i>	330.31	
23 33 13 19-0093	EA		44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	957.71	52.56
			<i>For 3 Hour Rated, Add</i>	240.01	
23 33 13 19-0094	EA		44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	987.34	55.93
			<i>For 3 Hour Rated, Add</i>	245.75	
23 33 13 19-0095	EA		44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,012.20	59.50
			<i>For 3 Hour Rated, Add</i>	250.05	
23 33 13 19-0096	EA		44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,027.50	63.07
			<i>For 3 Hour Rated, Add</i>	251.49	
23 33 13 19-0097	EA		44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,057.13	66.44
			<i>For 3 Hour Rated, Add</i>	257.22	
23 33 13 19-0098	EA		44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,086.73	70.01
			<i>For 3 Hour Rated, Add</i>	262.95	
23 33 13 19-0099	EA		44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,152.68	84.10
			<i>For 3 Hour Rated, Add</i>	270.12	
23 33 13 19-0100	EA		44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,197.54	91.03
			<i>For 3 Hour Rated, Add</i>	277.27	
23 33 13 19-0101	EA		44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,266.35	97.97
			<i>For 3 Hour Rated, Add</i>	291.61	
23 33 13 19-0102	EA		44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,330.36	105.11
			<i>For 3 Hour Rated, Add</i>	304.50	
23 33 13 19-0103	EA		44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,399.15	112.05
			<i>For 3 Hour Rated, Add</i>	318.83	
23 33 13 19-0104	EA		44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,452.65	115.42
			<i>For 3 Hour Rated, Add</i>	331.73	
23 33 13 19-0105	EA		44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,506.18	118.99
			<i>For 3 Hour Rated, Add</i>	344.63	
23 33 13 19-0106	EA		44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,559.71	122.56
			<i>For 3 Hour Rated, Add</i>	357.54	
23 33 13 19-0107	EA		48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	982.54	55.93
			<i>For 3 Hour Rated, Add</i>	244.31	
23 33 13 19-0108	EA		48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,012.20	59.50
			<i>For 3 Hour Rated, Add</i>	250.05	
23 33 13 19-0109	EA		48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,027.50	63.07
			<i>For 3 Hour Rated, Add</i>	251.49	
23 33 13 19-0110	EA		48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,062.85	70.01
			<i>For 3 Hour Rated, Add</i>	255.78	
23 33 13 19-0111	EA		48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,102.98	76.94
			<i>For 3 Hour Rated, Add</i>	261.52	
23 33 13 19-0112	EA		48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,143.10	84.10
			<i>For 3 Hour Rated, Add</i>	267.24	
23 33 13 19-0113	EA		48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,192.81	91.03
			<i>For 3 Hour Rated, Add</i>	275.85	
23 33 13 19-0114	EA		48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,242.48	97.97
			<i>For 3 Hour Rated, Add</i>	284.45	
23 33 13 19-0115	EA		48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,306.49	105.11
			<i>For 3 Hour Rated, Add</i>	297.34	
23 33 13 19-0116	EA		48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,380.03	112.05
			<i>For 3 Hour Rated, Add</i>	313.10	
23 33 13 19-0117	EA		48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,433.59	115.42
			<i>For 3 Hour Rated, Add</i>	326.01	
23 33 13 19-0118	EA		48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,501.38	118.99
			<i>For 3 Hour Rated, Add</i>	343.19	
23 33 13 19-0119	EA		48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,565.43	125.93
			<i>For 3 Hour Rated, Add</i>	356.10	
23 33 13 19-0120	EA		48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,633.28	129.50
			<i>For 3 Hour Rated, Add</i>	373.30	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Air Distribution	23 30
Air Duct Accessories	23 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0121 EA 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,703.02	140.02
<i>For 3 Hour Rated, Add</i>	<i>384.76</i>	
23 33 13 19-0122 EA 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,007.40	59.50
<i>For 3 Hour Rated, Add</i>	<i>248.61</i>	
23 33 13 19-0123 EA 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,037.03	63.07
<i>For 3 Hour Rated, Add</i>	<i>254.35</i>	
23 33 13 19-0124 EA 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,077.17	70.01
<i>For 3 Hour Rated, Add</i>	<i>260.08</i>	
23 33 13 19-0125 EA 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,102.98	76.94
<i>For 3 Hour Rated, Add</i>	<i>261.52</i>	
23 33 13 19-0126 EA 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,145.52	84.10
<i>For 3 Hour Rated, Add</i>	<i>267.97</i>	
23 33 13 19-0127 EA 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,188.01	91.03
<i>For 3 Hour Rated, Add</i>	<i>274.41</i>	
23 33 13 19-0128 EA 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,237.71	97.97
<i>For 3 Hour Rated, Add</i>	<i>283.01</i>	
23 33 13 19-0129 EA 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,287.37	105.11
<i>For 3 Hour Rated, Add</i>	<i>291.61</i>	
23 33 13 19-0130 EA 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,351.39	112.05
<i>For 3 Hour Rated, Add</i>	<i>304.50</i>	
23 33 13 19-0131 EA 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,429.75	118.99
<i>For 3 Hour Rated, Add</i>	<i>321.71</i>	
23 33 13 19-0132 EA 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,487.99	122.56
<i>For 3 Hour Rated, Add</i>	<i>336.02</i>	
23 33 13 19-0133 EA 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,560.67	125.93
<i>For 3 Hour Rated, Add</i>	<i>354.67</i>	
23 33 13 19-0134 EA 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,638.97	133.08
<i>For 3 Hour Rated, Add</i>	<i>371.86</i>	
23 33 13 19-0135 EA 52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,703.02	140.02
<i>For 3 Hour Rated, Add</i>	<i>384.76</i>	
23 33 13 19-0136 EA 52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,791.85	150.53
<i>For 3 Hour Rated, Add</i>	<i>401.96</i>	
23 33 13 19-0137 EA 52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,860.66	157.47
<i>For 3 Hour Rated, Add</i>	<i>416.29</i>	
23 33 13 19-0138 EA 56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,027.50	63.07
<i>For 3 Hour Rated, Add</i>	<i>251.49</i>	
23 33 13 19-0139 EA 56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,072.38	70.01
<i>For 3 Hour Rated, Add</i>	<i>258.64</i>	
23 33 13 19-0140 EA 56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,107.75	76.94
<i>For 3 Hour Rated, Add</i>	<i>262.95</i>	
23 33 13 19-0141 EA 56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,133.54	84.10
<i>For 3 Hour Rated, Add</i>	<i>264.38</i>	
23 33 13 19-0142 EA 56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,180.85	91.03
<i>For 3 Hour Rated, Add</i>	<i>272.27</i>	
23 33 13 19-0143 EA 56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,228.16	97.97
<i>For 3 Hour Rated, Add</i>	<i>280.15</i>	
23 33 13 19-0144 EA 56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,275.42	105.11
<i>For 3 Hour Rated, Add</i>	<i>288.02</i>	
23 33 13 19-0145 EA 56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,322.72	112.05
<i>For 3 Hour Rated, Add</i>	<i>295.90</i>	
23 33 13 19-0146 EA 56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,401.05	118.99
<i>For 3 Hour Rated, Add</i>	<i>313.10</i>	
23 33 13 19-0147 EA 56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,468.93	122.56
<i>For 3 Hour Rated, Add</i>	<i>330.31</i>	
23 33 13 19-0148 EA 56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,531.97	125.93
<i>For 3 Hour Rated, Add</i>	<i>346.06</i>	
23 33 13 19-0149 EA 56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,619.89	133.08
<i>For 3 Hour Rated, Add</i>	<i>366.13</i>	
23 33 13 19-0150 EA 56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,698.23	140.02
<i>For 3 Hour Rated, Add</i>	<i>383.33</i>	
23 33 13 19-0151 EA 56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,781.35	146.95
<i>For 3 Hour Rated, Add</i>	<i>401.96</i>	
23 33 13 19-0152 EA 56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,850.14	154.10
<i>For 3 Hour Rated, Add</i>	<i>416.29</i>	
23 33 13 19-0153 EA 56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,933.28	161.04
<i>For 3 Hour Rated, Add</i>	<i>434.92</i>	
23 33 13 19-0154 EA 56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,016.40	167.98
<i>For 3 Hour Rated, Add</i>	<i>453.55</i>	
23 33 13 19-0155 EA 60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,062.85	70.01
<i>For 3 Hour Rated, Add</i>	<i>255.78</i>	
23 33 13 19-0156 EA 60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,107.75	76.94
<i>For 3 Hour Rated, Add</i>	<i>262.95</i>	
23 33 13 19-0157 EA 60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,138.33	84.10
<i>For 3 Hour Rated, Add</i>	<i>265.81</i>	
23 33 13 19-0158 EA 60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,164.11	91.03
<i>For 3 Hour Rated, Add</i>	<i>267.24</i>	
23 33 13 19-0159 EA 60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,213.84	97.97
<i>For 3 Hour Rated, Add</i>	<i>275.85</i>	
23 33 13 19-0160 EA 60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,263.50	105.11
<i>For 3 Hour Rated, Add</i>	<i>284.45</i>	
23 33 13 19-0161 EA 60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,315.56	112.05
<i>For 3 Hour Rated, Add</i>	<i>293.75</i>	
23 33 13 19-0162 EA 60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,367.65	118.99
<i>For 3 Hour Rated, Add</i>	<i>303.08</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0163	EA		60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,440.26 321.71	122.56
23 33 13 19-0164	EA		60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,508.09 338.90	125.93
23 33 13 19-0165	EA		60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,591.25 357.54	133.08
23 33 13 19-0166	EA		60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,674.38 376.17	140.02
23 33 13 19-0167	EA		60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,743.15 390.50	146.95
23 33 13 19-0168	EA		60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,840.59 413.42	154.10
23 33 13 19-0169	EA		60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	1,928.51 433.49	161.04
23 33 13 19-0170	EA		60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,016.40 453.55	167.98
23 33 13 19-0171	EA		60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,094.71 470.74	175.13
23 33 13 19-0172	EA		60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	2,173.13 487.96	182.07
23 33 13 19-0173			Smoke Damper <small>(23 33 13 19)</small> Note: Leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0174	EA		6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	119.52 39.34 21.86	15.56
23 33 13 19-0175	EA		8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	123.45 40.32 22.40	16.26
23 33 13 19-0176	EA		8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	125.59 41.33 22.96	16.40
23 33 13 19-0177	EA		10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	125.59 41.33 22.96	16.40
23 33 13 19-0178	EA		10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	128.83 42.32 23.51	16.82
23 33 13 19-0179	EA		10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	138.12 44.31 24.62	18.65
23 33 13 19-0180	EA		12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	128.83 42.32 23.51	16.82
23 33 13 19-0181	EA		12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	135.31 44.31 24.62	17.80
23 33 13 19-0182	EA		12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	139.97 45.31 25.17	18.65
23 33 13 19-0183	EA		12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	148.81 46.30 25.72	21.02
23 33 13 19-0184	EA		14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	134.40 43.82 24.34	17.80
23 33 13 19-0185	EA		14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	139.97 45.31 25.17	18.65
23 33 13 19-0186	EA		14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	144.60 46.30 25.72	19.62
23 33 13 19-0187	EA		14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	150.67 47.30 26.28	21.02
23 33 13 19-0188	EA		14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	162.28 49.79 27.66	23.40
23 33 13 19-0189	EA		16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	207.14 81.58 45.32	18.65
23 33 13 19-0190	EA		16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	213.18 82.57 45.87	20.04
23 33 13 19-0191	EA		16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	220.63 83.57 46.43	22.00
23 33 13 19-0192	EA		16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	226.67 84.56 46.98	23.40
23 33 13 19-0193	EA		16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	238.31 87.06 48.37	25.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0194 EA 16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	249.93 89.55 49.75	28.03
23 33 13 19-0195 EA 18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	211.77 82.57 45.87	19.62
23 33 13 19-0196 EA 18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.75 84.07 46.70	21.02
23 33 13 19-0197 EA 18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	228.54 85.57 47.54	23.40
23 33 13 19-0198 EA 18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	240.15 88.05 48.92	25.64
23 33 13 19-0199 EA 18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	250.84 90.04 50.02	28.03
23 33 13 19-0200 EA 18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	262.46 92.53 51.41	30.27
23 33 13 19-0201 EA 18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	272.24 94.03 52.24	32.65
23 33 13 19-0202 EA 20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	217.83 83.57 46.43	21.02
23 33 13 19-0203 EA 20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	228.52 85.56 47.53	23.40
23 33 13 19-0204 EA 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	239.23 87.56 48.64	25.64
23 33 13 19-0205 EA 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	253.62 91.54 50.86	28.03
23 33 13 19-0206 EA 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	263.39 93.04 51.69	30.27
23 33 13 19-0207 EA 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	273.17 94.53 52.52	32.65
23 33 13 19-0208 EA 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	283.85 96.52 53.62	35.04
23 33 13 19-0209 EA 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.54 98.51 54.73	37.28
23 33 13 19-0210 EA 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	284.09 115.57 64.20	23.40
23 33 13 19-0211 EA 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	296.65 118.56 65.87	25.64
23 33 13 19-0212 EA 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	307.36 120.56 66.98	28.03
23 33 13 19-0213 EA 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.89 123.55 68.64	30.27
23 33 13 19-0214 EA 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	329.67 125.04 69.47	32.65
23 33 13 19-0215 EA 24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.42 126.53 70.29	35.04
23 33 13 19-0216 EA 24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	351.97 129.52 71.96	37.28
23 33 13 19-0217 EA 24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	371.52 132.51 73.61	42.05
23 33 13 19-0218 EA 24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	392.92 136.50 75.83	46.67
23 33 13 19-0219 EA 28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	296.65 118.56 65.87	25.64
23 33 13 19-0220 EA 28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	307.36 120.56 66.98	28.03
23 33 13 19-0221 EA 28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.89 123.55 68.64	30.27

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0222	EA		28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	330.58	32.65
			For Dynamic Damper, Add	125.53	
			For 3 Hour Rated, Add	69.74	
23 33 13 19-0223	EA		28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	342.19	35.04
			For Dynamic Damper, Add	128.02	
			For 3 Hour Rated, Add	71.12	
23 33 13 19-0224	EA		28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	353.81	37.28
			For Dynamic Damper, Add	130.51	
			For 3 Hour Rated, Add	72.51	
23 33 13 19-0225	EA		28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	373.36	42.05
			For Dynamic Damper, Add	133.50	
			For 3 Hour Rated, Add	74.17	
23 33 13 19-0226	EA		28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	392.92	46.67
			For Dynamic Damper, Add	136.50	
			For 3 Hour Rated, Add	75.83	
23 33 13 19-0227	EA		28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	410.98	49.06
			For Dynamic Damper, Add	142.46	
			For 3 Hour Rated, Add	79.15	
23 33 13 19-0228	EA		28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	434.23	53.68
			For Dynamic Damper, Add	147.45	
			For 3 Hour Rated, Add	81.92	
23 33 13 19-0229	EA		32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	312.89	28.03
			For Dynamic Damper, Add	123.55	
			For 3 Hour Rated, Add	68.64	
23 33 13 19-0230	EA		32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	321.72	30.27
			For Dynamic Damper, Add	124.53	
			For 3 Hour Rated, Add	69.19	
23 33 13 19-0231	EA		32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	330.58	32.65
			For Dynamic Damper, Add	125.53	
			For 3 Hour Rated, Add	69.74	
23 33 13 19-0232	EA		32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	341.26	35.04
			For Dynamic Damper, Add	127.52	
			For 3 Hour Rated, Add	70.85	
23 33 13 19-0233	EA		32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	354.16	37.28
			For Dynamic Damper, Add	130.70	
			For 3 Hour Rated, Add	72.61	
23 33 13 19-0234	EA		32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	373.36	42.05
			For Dynamic Damper, Add	133.50	
			For 3 Hour Rated, Add	74.17	
23 33 13 19-0235	EA		32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	394.76	46.67
			For Dynamic Damper, Add	137.49	
			For 3 Hour Rated, Add	76.38	
23 33 13 19-0236	EA		32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	416.17	51.30
			For Dynamic Damper, Add	141.48	
			For 3 Hour Rated, Add	78.60	
23 33 13 19-0237	EA		32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	434.23	53.68
			For Dynamic Damper, Add	147.45	
			For 3 Hour Rated, Add	81.92	
23 33 13 19-0238	EA		32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	458.37	57.46
			For Dynamic Damper, Add	154.43	
			For 3 Hour Rated, Add	85.79	
23 33 13 19-0239	EA		32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	482.92	60.69
			For Dynamic Damper, Add	162.39	
			For 3 Hour Rated, Add	90.22	
23 33 13 19-0240	EA		36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	328.58	30.27
			For Dynamic Damper, Add	128.24	
			For 3 Hour Rated, Add	71.24	
23 33 13 19-0241	EA		36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	339.45	32.65
			For Dynamic Damper, Add	130.32	
			For 3 Hour Rated, Add	72.40	
23 33 13 19-0242	EA		36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	350.30	35.04
			For Dynamic Damper, Add	132.40	
			For 3 Hour Rated, Add	73.56	
23 33 13 19-0243	EA		36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	363.12	37.28
			For Dynamic Damper, Add	135.54	
			For 3 Hour Rated, Add	75.30	
23 33 13 19-0244	EA		36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	380.05	42.05
			For Dynamic Damper, Add	137.11	
			For 3 Hour Rated, Add	76.17	
23 33 13 19-0245	EA		36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	389.96	44.29
			For Dynamic Damper, Add	138.68	
			For 3 Hour Rated, Add	77.04	
23 33 13 19-0246	EA		36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	420.64	51.30
			For Dynamic Damper, Add	143.89	
			For 3 Hour Rated, Add	79.94	
23 33 13 19-0247	EA		36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	444.31	56.07
			For Dynamic Damper, Add	149.10	
			For 3 Hour Rated, Add	82.84	
23 33 13 19-0248	EA		36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	461.51	57.89
			For Dynamic Damper, Add	155.37	
			For 3 Hour Rated, Add	86.32	
23 33 13 19-0249	EA		36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	489.58	62.09
			For Dynamic Damper, Add	163.71	
			For 3 Hour Rated, Add	90.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0250 EA 36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	512.92 171.02 95.01	65.31
23 33 13 19-0251 EA 36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	535.39 179.37 99.65	67.69
23 33 13 19-0252 EA 40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	377.81 151.04 83.91	35.04
23 33 13 19-0253 EA 40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	392.54 155.21 86.23	37.28
23 33 13 19-0254 EA 40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	401.48 156.25 86.81	39.66
23 33 13 19-0255 EA 40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	410.42 157.30 87.39	42.05
23 33 13 19-0256 EA 40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	431.21 160.95 89.42	44.29
23 33 13 19-0257 EA 40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	444.99 164.61 91.45	46.67
23 33 13 19-0258 EA 40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	473.74 168.78 93.77	53.68
23 33 13 19-0259 EA 40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	495.50 172.96 96.09	58.31
23 33 13 19-0260 EA 40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	518.30 179.22 99.57	62.09
23 33 13 19-0261 EA 40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	549.36 190.70 105.94	65.31
23 33 13 19-0262 EA 40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	572.15 196.95 109.42	69.10
23 33 13 19-0263 EA 40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	599.01 208.43 115.79	70.92
23 33 13 19-0264 EA 40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	629.56 218.87 121.59	74.70
23 33 13 19-0265 EA 44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	388.68 153.13 85.07	35.04
23 33 13 19-0266 EA 44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	403.41 157.30 87.39	37.28
23 33 13 19-0267 EA 44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	416.24 160.44 89.13	39.66
23 33 13 19-0268 EA 44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	425.19 161.49 89.72	42.05
23 33 13 19-0269 EA 44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	439.92 165.66 92.03	44.29
23 33 13 19-0270 EA 44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	454.64 169.82 94.35	46.67
23 33 13 19-0271 EA 44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	492.36 175.05 97.25	56.07
23 33 13 19-0272 EA 44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	516.01 180.26 100.14	60.69
23 33 13 19-0273 EA 44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	549.36 190.70 105.94	65.31
23 33 13 19-0274 EA 44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	580.78 200.09 111.16	70.08
23 33 13 19-0275 EA 44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	614.09 210.51 116.95	74.70
23 33 13 19-0276 EA 44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	638.49 219.90 122.17	76.94
23 33 13 19-0277 EA 44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	662.90 229.30 127.39	79.33

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0278 EA 44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	687.31	81.71
For Dynamic Damper, Add	238.70	
For 3 Hour Rated, Add	132.61	
23 33 13 19-0279 EA 48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	401.48	37.28
For Dynamic Damper, Add	156.25	
For 3 Hour Rated, Add	86.81	
23 33 13 19-0280 EA 48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	416.24	39.66
For Dynamic Damper, Add	160.44	
For 3 Hour Rated, Add	89.13	
23 33 13 19-0281 EA 48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	425.19	42.05
For Dynamic Damper, Add	161.49	
For 3 Hour Rated, Add	89.72	
23 33 13 19-0282 EA 48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	444.99	46.67
For Dynamic Damper, Add	164.61	
For 3 Hour Rated, Add	91.45	
23 33 13 19-0283 EA 48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	466.73	51.30
For Dynamic Damper, Add	168.78	
For 3 Hour Rated, Add	93.77	
23 33 13 19-0284 EA 48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	488.49	56.07
For Dynamic Damper, Add	172.96	
For 3 Hour Rated, Add	96.09	
23 33 13 19-0285 EA 48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	514.09	60.69
For Dynamic Damper, Add	179.22	
For 3 Hour Rated, Add	99.57	
23 33 13 19-0286 EA 48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	539.69	65.31
For Dynamic Damper, Add	185.47	
For 3 Hour Rated, Add	103.04	
23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	571.10	70.08
For Dynamic Damper, Add	194.86	
For 3 Hour Rated, Add	108.26	
23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	606.37	74.70
For Dynamic Damper, Add	206.34	
For 3 Hour Rated, Add	114.64	
23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	630.78	76.94
For Dynamic Damper, Add	215.74	
For 3 Hour Rated, Add	119.86	
23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	660.97	79.33
For Dynamic Damper, Add	228.26	
For 3 Hour Rated, Add	126.81	
23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	692.38	83.95
For Dynamic Damper, Add	237.65	
For 3 Hour Rated, Add	132.03	
23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	722.58	86.34
For Dynamic Damper, Add	250.17	
For 3 Hour Rated, Add	138.98	
23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	759.05	93.35
For Dynamic Damper, Add	258.52	
For 3 Hour Rated, Add	143.62	
23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	414.31	39.66
For Dynamic Damper, Add	159.40	
For 3 Hour Rated, Add	88.55	
23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	429.04	42.05
For Dynamic Damper, Add	163.57	
For 3 Hour Rated, Add	90.87	
23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	450.77	46.67
For Dynamic Damper, Add	167.73	
For 3 Hour Rated, Add	93.19	
23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	466.73	51.30
For Dynamic Damper, Add	168.78	
For 3 Hour Rated, Add	93.77	
23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	489.45	56.07
For Dynamic Damper, Add	173.48	
For 3 Hour Rated, Add	96.38	
23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	512.15	60.69
For Dynamic Damper, Add	178.17	
For 3 Hour Rated, Add	98.99	
23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	537.77	65.31
For Dynamic Damper, Add	184.44	
For 3 Hour Rated, Add	102.47	
23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	563.38	70.08
For Dynamic Damper, Add	190.70	
For 3 Hour Rated, Add	105.94	
23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	594.79	74.70
For Dynamic Damper, Add	200.09	
For 3 Hour Rated, Add	111.16	
23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	631.98	79.33
For Dynamic Damper, Add	212.60	
For 3 Hour Rated, Add	118.11	
23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	658.30	81.71
For Dynamic Damper, Add	223.03	
For 3 Hour Rated, Add	123.91	
23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	690.45	83.95
For Dynamic Damper, Add	236.61	
For 3 Hour Rated, Add	131.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	727.63 249.12 138.40	88.72
23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	759.05 258.52 143.62	93.35
23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	803.25 271.04 150.58	100.36
23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	836.60 281.48 156.38	104.97
23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	425.19 161.49 89.72	42.05
23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	448.84 166.69 92.61	46.67
23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	468.66 169.82 94.35	51.30
23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	484.60 170.86 94.92	56.07
23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	509.25 176.61 98.12	60.69
23 33 13 19-0315 EA 56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	533.90 182.35 101.30	65.31
23 33 13 19-0316 EA 56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	558.54 188.08 104.49	70.08
23 33 13 19-0317 EA 56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	583.18 193.82 107.68	74.70
23 33 13 19-0318 EA 56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	620.39 206.34 114.64	79.33
23 33 13 19-0319 EA 56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	650.59 218.87 121.59	81.71
23 33 13 19-0320 EA 56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	678.85 230.34 127.97	83.95
23 33 13 19-0321 EA 56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	719.92 244.95 136.09	88.72
23 33 13 19-0322 EA 56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	757.11 257.47 143.04	93.35
23 33 13 19-0323 EA 56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	796.25 271.04 150.58	97.97
23 33 13 19-0324 EA 56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	829.59 281.48 156.38	102.73
23 33 13 19-0325 EA 56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	868.73 295.04 163.91	107.36
23 33 13 19-0326 EA 56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	907.87 308.60 171.45	111.98
23 33 13 19-0327 EA 60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	444.99 164.61 91.45	46.67
23 33 13 19-0328 EA 60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	468.66 169.82 94.35	51.30
23 33 13 19-0329 EA 60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	486.54 171.91 95.51	56.07
23 33 13 19-0330 EA 60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	502.50 172.96 96.09	60.69
23 33 13 19-0331 EA 60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	528.11 179.22 99.57	65.31
23 33 13 19-0332 EA 60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	553.71 185.47 103.04	70.08
23 33 13 19-0333 EA 60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	580.28 192.26 106.81	74.70

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Lists various Louver Type Smoke Damper models and their costs.

23 33 13 23 Backdraft Dampers (23 33 13)

23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

Table listing horizontally mounted backdraft damper models (e.g., 6" x 6", 8" x 6", etc.) with their descriptions, unit costs, and demolition costs.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 33 13 23-0127	EA	40" x 24" Horizontally Mounted Backdraft Damper	313.79	65.31
23 33 13 23-0128	EA	40" x 28" Horizontally Mounted Backdraft Damper	347.40	70.08
23 33 13 23-0129	EA	40" x 32" Horizontally Mounted Backdraft Damper	381.00	74.70
23 33 13 23-0130	EA	40" x 36" Horizontally Mounted Backdraft Damper	414.61	79.33
23 33 13 23-0131	EA	40" x 40" Horizontally Mounted Backdraft Damper	423.73	83.95
23 33 13 23-0132	EA	40" x 44" Horizontally Mounted Backdraft Damper	454.88	88.72
23 33 13 23-0133	EA	40" x 48" Horizontally Mounted Backdraft Damper	472.04	88.72
23 33 13 23-0134	EA	40" x 50" Horizontally Mounted Backdraft Damper	464.01	93.35
23 33 13 23-0135	EA	44" x 6" Horizontally Mounted Backdraft Damper	184.41	30.27
23 33 13 23-0136	EA	44" x 8" Horizontally Mounted Backdraft Damper	187.57	37.28
23 33 13 23-0137	EA	44" x 10" Horizontally Mounted Backdraft Damper	220.45	42.05
23 33 13 23-0138	EA	44" x 12" Horizontally Mounted Backdraft Damper	253.32	46.67
23 33 13 23-0139	EA	44" x 14" Horizontally Mounted Backdraft Damper	248.46	51.30
23 33 13 23-0140	EA	44" x 16" Horizontally Mounted Backdraft Damper	275.95	56.07
23 33 13 23-0141	EA	44" x 18" Horizontally Mounted Backdraft Damper	289.43	56.07
23 33 13 23-0142	EA	44" x 20" Horizontally Mounted Backdraft Damper	316.91	60.69
23 33 13 23-0143	EA	44" x 24" Horizontally Mounted Backdraft Damper	339.56	70.08
23 33 13 23-0144	EA	44" x 28" Horizontally Mounted Backdraft Damper	375.12	74.70
23 33 13 23-0145	EA	44" x 32" Horizontally Mounted Backdraft Damper	410.70	79.33
23 33 13 23-0146	EA	44" x 36" Horizontally Mounted Backdraft Damper	422.01	83.95
23 33 13 23-0147	EA	44" x 40" Horizontally Mounted Backdraft Damper	454.88	88.72
23 33 13 23-0148	EA	44" x 44" Horizontally Mounted Backdraft Damper	473.74	88.72
23 33 13 23-0149	EA	44" x 48" Horizontally Mounted Backdraft Damper	474.30	93.35
23 33 13 23-0150	EA	44" x 50" Horizontally Mounted Backdraft Damper	482.36	93.35
23 33 13 23-0151	EA	48" x 6" Horizontally Mounted Backdraft Damper	199.90	32.65
23 33 13 23-0152	EA	48" x 8" Horizontally Mounted Backdraft Damper	194.42	37.28
23 33 13 23-0153	EA	48" x 10" Horizontally Mounted Backdraft Damper	229.02	42.05
23 33 13 23-0154	EA	48" x 12" Horizontally Mounted Backdraft Damper	228.32	46.67
23 33 13 23-0155	EA	48" x 14" Horizontally Mounted Backdraft Damper	257.03	51.30
23 33 13 23-0156	EA	48" x 16" Horizontally Mounted Backdraft Damper	285.76	56.07
23 33 13 23-0157	EA	48" x 18" Horizontally Mounted Backdraft Damper	314.46	60.69
23 33 13 23-0158	EA	48" x 20" Horizontally Mounted Backdraft Damper	313.79	65.31
23 33 13 23-0159	EA	48" x 24" Horizontally Mounted Backdraft Damper	351.32	70.08
23 33 13 23-0160	EA	48" x 28" Horizontally Mounted Backdraft Damper	402.86	79.33
23 33 13 23-0161	EA	48" x 32" Horizontally Mounted Backdraft Damper	416.88	83.95
23 33 13 23-0162	EA	48" x 36" Horizontally Mounted Backdraft Damper	451.46	88.72
23 33 13 23-0163	EA	48" x 40" Horizontally Mounted Backdraft Damper	472.04	88.72
23 33 13 23-0164	EA	48" x 44" Horizontally Mounted Backdraft Damper	474.30	93.35
23 33 13 23-0165	EA	48" x 48" Horizontally Mounted Backdraft Damper	505.94	97.97
23 33 13 23-0166	EA	48" x 50" Horizontally Mounted Backdraft Damper	514.76	97.97
23 33 13 23-0167	EA	50" x 6" Horizontally Mounted Backdraft Damper	204.14	32.65
23 33 13 23-0168	EA	50" x 8" Horizontally Mounted Backdraft Damper	211.88	42.05
23 33 13 23-0169	EA	50" x 10" Horizontally Mounted Backdraft Damper	247.32	46.67
23 33 13 23-0170	EA	50" x 12" Horizontally Mounted Backdraft Damper	246.01	51.30
23 33 13 23-0171	EA	50" x 14" Horizontally Mounted Backdraft Damper	275.35	56.07
23 33 13 23-0172	EA	50" x 16" Horizontally Mounted Backdraft Damper	304.65	60.69
23 33 13 23-0173	EA	50" x 18" Horizontally Mounted Backdraft Damper	333.99	65.31
23 33 13 23-0174	EA	50" x 20" Horizontally Mounted Backdraft Damper	332.69	70.08
23 33 13 23-0175	EA	50" x 24" Horizontally Mounted Backdraft Damper	371.20	74.70
23 33 13 23-0176	EA	50" x 28" Horizontally Mounted Backdraft Damper	409.71	79.33
23 33 13 23-0177	EA	50" x 32" Horizontally Mounted Backdraft Damper	423.73	83.95
23 33 13 23-0178	EA	50" x 36" Horizontally Mounted Backdraft Damper	459.18	88.72
23 33 13 23-0179	EA	50" x 40" Horizontally Mounted Backdraft Damper	464.01	93.35
23 33 13 23-0180	EA	50" x 44" Horizontally Mounted Backdraft Damper	482.36	93.35
23 33 13 23-0181	EA	50" x 48" Horizontally Mounted Backdraft Damper	514.76	97.97
23 33 13 23-0182	EA	50" x 50" Horizontally Mounted Backdraft Damper	523.94	97.97

23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Excludes motor pack.

23 33 13 23-0184	EA	6" x 6" Vertically Mounted Backdraft Damper	90.72	15.56
23 33 13 23-0185	EA	8" x 6" Vertically Mounted Backdraft Damper	107.52	16.26
23 33 13 23-0186	EA	10" x 6" Vertically Mounted Backdraft Damper	110.25	16.40
23 33 13 23-0187	EA	8" x 8" Vertically Mounted Backdraft Damper	114.33	16.40
23 33 13 23-0188	EA	12" x 6" Vertically Mounted Backdraft Damper	123.89	16.82
23 33 13 23-0189	EA	10" x 8" Vertically Mounted Backdraft Damper	137.66	18.65
23 33 13 23-0190	EA	14" x 6" Vertically Mounted Backdraft Damper	136.13	16.82
23 33 13 23-0191	EA	12" x 8" Vertically Mounted Backdraft Damper	153.97	18.65
23 33 13 23-0192	EA	16" x 6" Vertically Mounted Backdraft Damper	156.76	19.62
23 33 13 23-0193	EA	10" x 10" Vertically Mounted Backdraft Damper	165.05	21.02
23 33 13 23-0194	EA	18" x 6" Vertically Mounted Backdraft Damper	133.77	17.80
23 33 13 23-0195	EA	14" x 8" Vertically Mounted Backdraft Damper	142.36	19.62
23 33 13 23-0196	EA	12" x 10" Vertically Mounted Backdraft Damper	152.53	21.02
23 33 13 23-0197	EA	20" x 6" Vertically Mounted Backdraft Damper	159.54	23.40
23 33 13 23-0198	EA	16" x 8" Vertically Mounted Backdraft Damper	172.51	25.64
23 33 13 23-0199	EA	14" x 10" Vertically Mounted Backdraft Damper	160.43	18.65
23 33 13 23-0200	EA	12" x 12" Vertically Mounted Backdraft Damper	170.42	21.02
23 33 13 23-0201	EA	18" x 8" Vertically Mounted Backdraft Damper	155.53	23.40
23 33 13 23-0202	EA	24" x 6" Vertically Mounted Backdraft Damper	155.53	23.40
23 33 13 23-0203	EA	16" x 10" Vertically Mounted Backdraft Damper	172.03	25.64
23 33 13 23-0204	EA	20" x 8" Vertically Mounted Backdraft Damper	179.04	28.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0205 EA 14" x 12" Vertically Mounted Backdraft Damper	158.54	19.62
23 33 13 23-0206 EA 28" x 6" Vertically Mounted Backdraft Damper	162.75	21.02
23 33 13 23-0207 EA 18" x 10" Vertically Mounted Backdraft Damper	176.88	23.40
23 33 13 23-0208 EA 16" x 12" Vertically Mounted Backdraft Damper	191.01	25.64
23 33 13 23-0209 EA 24" x 8" Vertically Mounted Backdraft Damper	198.02	28.03
23 33 13 23-0210 EA 32" x 6" Vertically Mounted Backdraft Damper	205.02	30.27
23 33 13 23-0211 EA 14" x 14" Vertically Mounted Backdraft Damper	221.41	35.04
23 33 13 23-0212 EA 20" x 10" Vertically Mounted Backdraft Damper	222.55	37.28
23 33 13 23-0213 EA 18" x 12" Vertically Mounted Backdraft Damper	245.41	42.05
23 33 13 23-0214 EA 36" x 6" Vertically Mounted Backdraft Damper	182.34	21.02
23 33 13 23-0215 EA 16" x 14" Vertically Mounted Backdraft Damper	193.77	23.40
23 33 13 23-0216 EA 28" x 8" Vertically Mounted Backdraft Damper	200.78	25.64
23 33 13 23-0217 EA 20" x 12" Vertically Mounted Backdraft Damper	216.61	28.03
23 33 13 23-0218 EA 24" x 10" Vertically Mounted Backdraft Damper	223.61	30.27
23 33 13 23-0219 EA 40" x 6" Vertically Mounted Backdraft Damper	230.62	32.65
23 33 13 23-0220 EA 18" x 14" Vertically Mounted Backdraft Damper	251.27	37.28
23 33 13 23-0221 EA 16" x 16" Vertically Mounted Backdraft Damper	253.47	37.28
23 33 13 23-0222 EA 32" x 8" Vertically Mounted Backdraft Damper	267.49	42.05
23 33 13 23-0223 EA 44" x 6" Vertically Mounted Backdraft Damper	285.92	46.67
23 33 13 23-0224 EA 20" x 14" Vertically Mounted Backdraft Damper	308.77	51.30
23 33 13 23-0225 EA 28" x 10" Vertically Mounted Backdraft Damper	322.79	56.07
23 33 13 23-0226 EA 18" x 16" Vertically Mounted Backdraft Damper	229.10	23.40
23 33 13 23-0227 EA 24" x 12" Vertically Mounted Backdraft Damper	236.11	25.64
23 33 13 23-0228 EA 36" x 8" Vertically Mounted Backdraft Damper	243.12	28.03
23 33 13 23-0229 EA 48" x 6" Vertically Mounted Backdraft Damper	250.12	30.27
23 33 13 23-0230 EA 50" x 6" Vertically Mounted Backdraft Damper	270.75	35.04
23 33 13 23-0231 EA 20" x 16" Vertically Mounted Backdraft Damper	288.80	37.28
23 33 13 23-0232 EA 32" x 10" Vertically Mounted Backdraft Damper	302.82	42.05
23 33 13 23-0233 EA 40" x 8" Vertically Mounted Backdraft Damper	302.82	42.05
23 33 13 23-0234 EA 18" x 18" Vertically Mounted Backdraft Damper	281.50	46.67
23 33 13 23-0235 EA 24" x 14" Vertically Mounted Backdraft Damper	275.89	51.30
23 33 13 23-0236 EA 28" x 12" Vertically Mounted Backdraft Damper	289.91	56.07
23 33 13 23-0237 EA 44" x 8" Vertically Mounted Backdraft Damper	309.72	60.69
23 33 13 23-0238 EA 18" x 20" Vertically Mounted Backdraft Damper	326.63	65.31
23 33 13 23-0239 EA 20" x 18" Vertically Mounted Backdraft Damper	340.65	70.08
23 33 13 23-0240 EA 36" x 10" Vertically Mounted Backdraft Damper	340.65	70.08
23 33 13 23-0241 EA 24" x 16" Vertically Mounted Backdraft Damper	209.19	23.40
23 33 13 23-0242 EA 32" x 12" Vertically Mounted Backdraft Damper	216.20	25.64
23 33 13 23-0243 EA 48" x 8" Vertically Mounted Backdraft Damper	230.21	30.27
23 33 13 23-0244 EA 28" x 14" Vertically Mounted Backdraft Damper	247.12	35.04
23 33 13 23-0245 EA 20" x 20" Vertically Mounted Backdraft Damper	257.03	37.28
23 33 13 23-0246 EA 40" x 10" Vertically Mounted Backdraft Damper	271.05	42.05
23 33 13 23-0247 EA 50" x 8" Vertically Mounted Backdraft Damper	285.06	46.67
23 33 13 23-0248 EA 18" x 24" Vertically Mounted Backdraft Damper	296.65	46.67
23 33 13 23-0249 EA 24" x 18" Vertically Mounted Backdraft Damper	310.67	51.30
23 33 13 23-0250 EA 36" x 12" Vertically Mounted Backdraft Damper	324.69	56.07
23 33 13 23-0251 EA 44" x 10" Vertically Mounted Backdraft Damper	341.60	60.69
23 33 13 23-0252 EA 28" x 16" Vertically Mounted Backdraft Damper	372.54	70.08
23 33 13 23-0253 EA 32" x 14" Vertically Mounted Backdraft Damper	372.54	70.08
23 33 13 23-0254 EA 20" x 24" Vertically Mounted Backdraft Damper	399.59	74.70
23 33 13 23-0255 EA 24" x 20" Vertically Mounted Backdraft Damper	386.92	79.33
23 33 13 23-0256 EA 40" x 12" Vertically Mounted Backdraft Damper	386.92	79.33
23 33 13 23-0257 EA 48" x 10" Vertically Mounted Backdraft Damper	400.94	83.95
23 33 13 23-0258 EA 50" x 10" Vertically Mounted Backdraft Damper	407.13	83.95
23 33 13 23-0259 EA 28" x 18" Vertically Mounted Backdraft Damper	233.16	25.64
23 33 13 23-0260 EA 36" x 14" Vertically Mounted Backdraft Damper	247.17	30.27
23 33 13 23-0261 EA 32" x 16" Vertically Mounted Backdraft Damper	256.67	32.65
23 33 13 23-0262 EA 44" x 12" Vertically Mounted Backdraft Damper	275.62	37.28
23 33 13 23-0263 EA 20" x 28" Vertically Mounted Backdraft Damper	299.55	42.05
23 33 13 23-0264 EA 28" x 20" Vertically Mounted Backdraft Damper	313.56	46.67
23 33 13 23-0265 EA 40" x 14" Vertically Mounted Backdraft Damper	313.56	46.67
23 33 13 23-0266 EA 24" x 24" Vertically Mounted Backdraft Damper	332.54	51.30
23 33 13 23-0267 EA 32" x 18" Vertically Mounted Backdraft Damper	346.56	56.07
23 33 13 23-0268 EA 36" x 16" Vertically Mounted Backdraft Damper	360.57	60.69
23 33 13 23-0269 EA 48" x 12" Vertically Mounted Backdraft Damper	388.61	70.08
23 33 13 23-0270 EA 50" x 12" Vertically Mounted Backdraft Damper	396.05	70.08
23 33 13 23-0271 EA 44" x 14" Vertically Mounted Backdraft Damper	415.01	74.70
23 33 13 23-0272 EA 20" x 32" Vertically Mounted Backdraft Damper	436.46	79.33
23 33 13 23-0273 EA 32" x 20" Vertically Mounted Backdraft Damper	450.48	83.95
23 33 13 23-0274 EA 40" x 16" Vertically Mounted Backdraft Damper	450.48	83.95
23 33 13 23-0275 EA 36" x 18" Vertically Mounted Backdraft Damper	466.96	88.72
23 33 13 23-0276 EA 24" x 28" Vertically Mounted Backdraft Damper	475.64	88.72
23 33 13 23-0277 EA 28" x 24" Vertically Mounted Backdraft Damper	471.70	93.35
23 33 13 23-0278 EA 48" x 14" Vertically Mounted Backdraft Damper	471.70	93.35
23 33 13 23-0279 EA 50" x 14" Vertically Mounted Backdraft Damper	493.70	97.97
23 33 13 23-0280 EA 44" x 16" Vertically Mounted Backdraft Damper	277.59	25.64
23 33 13 23-0281 EA 20" x 36" Vertically Mounted Backdraft Damper	303.17	32.65
23 33 13 23-0282 EA 36" x 20" Vertically Mounted Backdraft Damper	317.18	37.28
23 33 13 23-0283 EA 40" x 18" Vertically Mounted Backdraft Damper	331.20	42.05
23 33 13 23-0284 EA 24" x 32" Vertically Mounted Backdraft Damper	358.88	46.67
23 33 13 23-0285 EA 32" x 24" Vertically Mounted Backdraft Damper	358.88	46.67

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0286 EA 48" x 16" Vertically Mounted Backdraft Damper	372.90	51.30
23 33 13 23-0287 EA 28" x 28" Vertically Mounted Backdraft Damper	391.48	56.07
23 33 13 23-0288 EA 44" x 18" Vertically Mounted Backdraft Damper	407.76	60.69
23 33 13 23-0289 EA 40" x 20" Vertically Mounted Backdraft Damper	438.08	70.08
23 33 13 23-0290 EA 50" x 16" Vertically Mounted Backdraft Damper	438.08	70.08
23 33 13 23-0291 EA 24" x 36" Vertically Mounted Backdraft Damper	470.32	74.70
23 33 13 23-0292 EA 36" x 24" Vertically Mounted Backdraft Damper	484.34	79.33
23 33 13 23-0293 EA 48" x 18" Vertically Mounted Backdraft Damper	498.36	83.95
23 33 13 23-0294 EA 44" x 20" Vertically Mounted Backdraft Damper	516.93	88.72
23 33 13 23-0295 EA 28" x 32" Vertically Mounted Backdraft Damper	521.49	88.72
23 33 13 23-0296 EA 32" x 28" Vertically Mounted Backdraft Damper	535.50	93.35
23 33 13 23-0297 EA 50" x 18" Vertically Mounted Backdraft Damper	536.63	93.35
23 33 13 23-0298 EA 24" x 40" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0299 EA 40" x 24" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0300 EA 48" x 20" Vertically Mounted Backdraft Damper	567.74	97.97
23 33 13 23-0301 EA 50" x 20" Vertically Mounted Backdraft Damper	368.90	28.03
23 33 13 23-0302 EA 28" x 36" Vertically Mounted Backdraft Damper	392.19	35.04
23 33 13 23-0303 EA 36" x 28" Vertically Mounted Backdraft Damper	399.20	37.28
23 33 13 23-0304 EA 32" x 32" Vertically Mounted Backdraft Damper	417.78	42.05
23 33 13 23-0305 EA 24" x 44" Vertically Mounted Backdraft Damper	408.39	46.67
23 33 13 23-0306 EA 44" x 24" Vertically Mounted Backdraft Damper	422.41	51.30
23 33 13 23-0307 EA 28" x 40" Vertically Mounted Backdraft Damper	452.67	56.07
23 33 13 23-0308 EA 40" x 28" Vertically Mounted Backdraft Damper	466.68	60.69
23 33 13 23-0309 EA 24" x 48" Vertically Mounted Backdraft Damper	488.84	65.31
23 33 13 23-0310 EA 32" x 36" Vertically Mounted Backdraft Damper	502.86	70.08
23 33 13 23-0311 EA 36" x 32" Vertically Mounted Backdraft Damper	516.87	74.70
23 33 13 23-0312 EA 48" x 24" Vertically Mounted Backdraft Damper	530.89	79.33
23 33 13 23-0313 EA 50" x 24" Vertically Mounted Backdraft Damper	557.10	83.95
23 33 13 23-0314 EA 28" x 44" Vertically Mounted Backdraft Damper	579.23	88.72
23 33 13 23-0315 EA 44" x 28" Vertically Mounted Backdraft Damper	579.23	88.72
23 33 13 23-0316 EA 32" x 40" Vertically Mounted Backdraft Damper	605.44	93.35
23 33 13 23-0317 EA 40" x 32" Vertically Mounted Backdraft Damper	416.23	30.27
23 33 13 23-0318 EA 36" x 36" Vertically Mounted Backdraft Damper	441.31	37.28
23 33 13 23-0319 EA 28" x 48" Vertically Mounted Backdraft Damper	467.52	42.05
23 33 13 23-0320 EA 48" x 28" Vertically Mounted Backdraft Damper	481.53	46.67
23 33 13 23-0321 EA 50" x 28" Vertically Mounted Backdraft Damper	509.77	51.30
23 33 13 23-0322 EA 32" x 44" Vertically Mounted Backdraft Damper	525.83	56.07
23 33 13 23-0323 EA 44" x 32" Vertically Mounted Backdraft Damper	525.83	56.07
23 33 13 23-0324 EA 36" x 40" Vertically Mounted Backdraft Damper	548.99	60.69
23 33 13 23-0325 EA 40" x 36" Vertically Mounted Backdraft Damper	539.43	70.08
23 33 13 23-0326 EA 28" x 52" Vertically Mounted Backdraft Damper	557.09	74.70
23 33 13 23-0327 EA 32" x 48" Vertically Mounted Backdraft Damper	589.40	79.33
23 33 13 23-0328 EA 48" x 32" Vertically Mounted Backdraft Damper	603.42	83.95
23 33 13 23-0329 EA 28" x 56" Vertically Mounted Backdraft Damper	624.75	88.72
23 33 13 23-0330 EA 36" x 44" Vertically Mounted Backdraft Damper	628.42	88.72
23 33 13 23-0331 EA 44" x 36" Vertically Mounted Backdraft Damper	642.43	93.35
23 33 13 23-0332 EA 40" x 40" Vertically Mounted Backdraft Damper	646.08	93.35
23 33 13 23-0333 EA 50" x 32" Vertically Mounted Backdraft Damper	463.88	32.65
23 33 13 23-0334 EA 32" x 52" Vertically Mounted Backdraft Damper	492.52	37.28
23 33 13 23-0335 EA 28" x 60" Vertically Mounted Backdraft Damper	510.19	42.05
23 33 13 23-0336 EA 36" x 48" Vertically Mounted Backdraft Damper	535.19	46.67
23 33 13 23-0337 EA 48" x 36" Vertically Mounted Backdraft Damper	549.21	51.30
23 33 13 23-0338 EA 40" x 44" Vertically Mounted Backdraft Damper	570.55	56.07
23 33 13 23-0339 EA 44" x 40" Vertically Mounted Backdraft Damper	584.56	60.69
23 33 13 23-0340 EA 32" x 56" Vertically Mounted Backdraft Damper	605.88	65.31
23 33 13 23-0341 EA 50" x 36" Vertically Mounted Backdraft Damper	576.01	70.08
23 33 13 23-0342 EA 36" x 52" Vertically Mounted Backdraft Damper	618.67	79.33
23 33 13 23-0343 EA 32" x 60" Vertically Mounted Backdraft Damper	642.44	83.95
23 33 13 23-0344 EA 40" x 48" Vertically Mounted Backdraft Damper	656.45	88.72
23 33 13 23-0345 EA 48" x 40" Vertically Mounted Backdraft Damper	656.45	88.72
23 33 13 23-0346 EA 44" x 44" Vertically Mounted Backdraft Damper	673.72	93.35
23 33 13 23-0347 EA 40" x 50" Vertically Mounted Backdraft Damper	700.75	97.97
23 33 13 23-0348 EA 50" x 40" Vertically Mounted Backdraft Damper	700.75	97.97
23 33 13 23-0349 EA 36" x 56" Vertically Mounted Backdraft Damper	507.77	32.65
23 33 13 23-0350 EA 32" x 64" Vertically Mounted Backdraft Damper	542.31	42.05
23 33 13 23-0351 EA 44" x 48" Vertically Mounted Backdraft Damper	569.33	46.67
23 33 13 23-0352 EA 48" x 44" Vertically Mounted Backdraft Damper	583.35	51.30
23 33 13 23-0353 EA 36" x 60" Vertically Mounted Backdraft Damper	607.12	56.07
23 33 13 23-0354 EA 32" x 68" Vertically Mounted Backdraft Damper	624.38	60.69
23 33 13 23-0355 EA 44" x 50" Vertically Mounted Backdraft Damper	587.39	65.31
23 33 13 23-0356 EA 50" x 44" Vertically Mounted Backdraft Damper	601.41	70.08
23 33 13 23-0357 EA 32" x 72" Vertically Mounted Backdraft Damper	633.91	74.70
23 33 13 23-0358 EA 36" x 64" Vertically Mounted Backdraft Damper	647.93	79.33
23 33 13 23-0359 EA 48" x 48" Vertically Mounted Backdraft Damper	661.95	83.95
23 33 13 23-0360 EA 48" x 50" Vertically Mounted Backdraft Damper	693.02	88.72
23 33 13 23-0361 EA 50" x 48" Vertically Mounted Backdraft Damper	707.03	93.35
23 33 13 23-0362 EA 36" x 68" Vertically Mounted Backdraft Damper	715.57	93.35
23 33 13 23-0363 EA 50" x 50" Vertically Mounted Backdraft Damper	738.84	97.97
23 33 13 23-0364 EA 36" x 72" Vertically Mounted Backdraft Damper	755.19	97.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)
23 30 HVAC Air Distribution
 23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 19 00-0046 EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,359.47	209.95
23 33 19 00-0047 EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,477.77	221.16
23 33 19 00-0048 EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,838.20	237.95
23 33 19 00-0049 EA 24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,991.78	251.95
23 33 23 Turning Vanes (23 33)		
23 33 23 00-0001 Duct Turning Vane Components (23 33 23)		
23 33 23 00-0002 LF Duct Turning Vane Rail.....	12.84	3.50
<i>For Stainless Steel, Add</i>	7.25	
23 33 23 00-0003 LF Double Thick Factory Fabricated, Duct Turning Vane	11.31	1.40
<i>For Stainless Steel, Add</i>	10.92	
23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)		
Note: Measured from inside corner to outside corner of ductwork.		
23 33 23 00-0005 LF 12" High Duct Turning Vanes, Sets	45.15	5.25
<i>For Stainless Steel, Add</i>	50.17	
23 33 23 00-0006 LF 14" High Duct Turning Vanes, Sets	55.82	5.60
<i>For Stainless Steel, Add</i>	63.47	
23 33 23 00-0007 LF 16" High Duct Turning Vanes, Sets	75.76	5.87
<i>For Stainless Steel, Add</i>	88.86	
23 33 23 00-0008 LF 18" High Duct Turning Vanes, Sets	95.76	6.30
<i>For Stainless Steel, Add</i>	114.24	
23 33 23 00-0009 LF 20" High Duct Turning Vanes, Sets	106.04	6.72
<i>For Stainless Steel, Add</i>	126.93	
23 33 23 00-0010 LF 22" High Duct Turning Vanes, Sets	134.81	6.30
<i>For Stainless Steel, Add</i>	165.04	
23 33 23 00-0011 LF 24" High Duct Turning Vanes, Sets	165.58	7.41
<i>For Stainless Steel, Add</i>	203.11	
23 33 23 00-0012 LF 26" High Duct Turning Vanes, Sets	177.69	7.76
<i>For Stainless Steel, Add</i>	218.40	
23 33 23 00-0013 LF 30" High Duct Turning Vanes, Sets	198.24	8.06
<i>For Stainless Steel, Add</i>	244.61	
23 33 33 Duct-Mounting Access Doors (23 33)		
23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)		
23 33 33 00-0002 EA 6" x 6" Duct Access Doors Insulated Factory Fabrication.....	98.18	19.60
<i>For Stainless Steel, Add</i>	38.88	
23 33 33 00-0003 EA 10" x 10" Duct Access Doors Insulated Factory Fabrication	102.26	19.60
<i>For Stainless Steel, Add</i>	47.04	
23 33 33 00-0004 EA 12" x 12" Duct Access Doors Insulated Factory Fabrication	104.26	19.60
<i>For Stainless Steel, Add</i>	51.04	
23 33 33 00-0005 EA 12" x 18" Duct Access Doors Insulated Factory Fabrication	132.88	23.79
<i>For Stainless Steel, Add</i>	71.96	
23 33 33 00-0006 EA 16" x 12" Duct Access Doors Insulated Factory Fabrication	133.69	23.79
<i>For Stainless Steel, Add</i>	73.58	
23 33 33 00-0007 EA 18" x 18" Duct Access Doors Insulated Factory Fabrication	168.32	32.19
<i>For Stainless Steel, Add</i>	84.68	
23 33 33 00-0008 EA 24" x 18" Duct Access Doors Insulated Factory Fabrication	203.07	39.19
<i>For Stainless Steel, Add</i>	91.20	
23 33 33 00-0009 EA 24" x 24" Duct Access Doors Insulated Factory Fabrication	265.94	53.18
<i>For Stainless Steel, Add</i>	111.98	
23 33 43 Flexible Connectors (23 33)		
23 33 43 00-0001 LF 6-1/2" Width, Galvanized Steel, Flexible Duct Connector.....	16.97	4.19
23 33 43 00-0002 LF 5-3/4" Width, Vinyl/Steel, Flexible Duct Connector	17.27	3.78
23 33 46 Flexible Ducts (23 33)		
23 33 46 00-0001 Flexible Duct, R8.0 Insulated With Metallized Outer Jacket (23 33 46)		
Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.		
23 33 46 00-0002 LF 4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	7.57	1.40
23 33 46 00-0003 LF 5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	8.46	2.80
23 33 46 00-0004 LF 6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	9.75	2.80
23 33 46 00-0005 LF 7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	11.42	2.80
23 33 46 00-0006 LF 8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	13.80	4.19
23 33 46 00-0007 LF 10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	17.72	4.19
23 33 46 00-0008 LF 12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	24.33	5.60
23 33 46 00-0009 LF 14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	30.36	5.60
23 33 46 00-0010 LF 16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket.....	40.19	7.00
23 33 46 00-0011 Collars, Sheet Metal Spin-In Type With Damper (23 33 46)		
23 33 46 00-0012 EA Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	46.70	8.40
<i>For Stainless Steel, Add</i>	19.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 46 00-0013 EA 5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	51.39 20.02	9.80
23 33 46 00-0014 EA 6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	58.97 22.07	9.80
23 33 46 00-0015 EA 7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	67.91 22.78	12.59
23 33 46 00-0016 EA 8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	82.77 25.73	15.40
23 33 46 00-0017 EA 10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	96.39 31.72	18.20
23 33 46 00-0018 EA 12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	110.28 34.18	20.99
23 33 46 00-0019 EA 14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	129.50 42.80	23.79
23 33 46 00-0020 EA 16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	141.00 46.83	26.60

23 33 53 Duct Liners (23 33)**23 33 53 00-0001 Fiberglass Duct Liner Board, Rigid, Acoustical Insulation** (23 33 53)

23 33 53 00-0002 SF 1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	14.56	3.94
23 33 53 00-0003 SF 3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	15.90	3.94
23 33 53 00-0004 SF 1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	17.66	5.25
23 33 53 00-0005 SF 1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	21.64	5.25
23 33 53 00-0006 SF 2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	26.11	5.91
23 33 53 00-0007 SF 1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.68	4.19
23 33 53 00-0008 SF 3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	14.95	4.19
23 33 53 00-0009 SF 1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.66	5.60
23 33 53 00-0010 SF 1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	20.29	5.60
23 33 53 00-0011 SF 2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	24.58	6.30

23 33 53 00-0012 Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)

23 33 53 00-0013 SF 1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	2.87	3.36
23 33 53 00-0014 SF 1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket	3.68	3.78
23 33 53 00-0015 SF 1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	4.14	3.78
23 33 53 00-0016 SF 1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket	5.36	3.78
23 33 53 00-0017 SF 1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket	4.47	4.19
23 33 53 00-0018 SF 2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket	4.74	4.62
23 33 53 00-0019 SF 2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket	7.38	4.62

23 33 56 Duct Air Extractors (23 33)

23 33 56 00-0001 EA 12" x 4" Duct Air Extractor <i>For Stainless Steel, Add</i>	60.46 18.55	23.10
23 33 56 00-0002 EA 8" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	64.66 18.55	25.20
23 33 56 00-0003 EA 12" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	72.93 25.68	26.60
23 33 56 00-0004 EA 16" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	81.04 32.57	28.00
23 33 56 00-0005 EA 24" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	102.94 53.77	30.79
23 33 56 00-0006 EA 12" x 8" Duct Air Extractor <i>For Stainless Steel, Add</i>	78.13 28.78	28.00
23 33 56 00-0007 EA 20" x 8" Duct Air Extractor <i>For Stainless Steel, Add</i>	102.02 41.65	35.00
23 33 56 00-0008 EA 18" x 10" Duct Air Extractor <i>For Stainless Steel, Add</i>	111.24 40.90	39.89
23 33 56 00-0009 EA 24" x 10" Duct Air Extractor <i>For Stainless Steel, Add</i>	134.56 53.01	46.88
23 33 56 00-0010 EA 24" x 12" Duct Air Extractor <i>For Stainless Steel, Add</i>	155.66 56.80	55.99
23 33 56 00-0011 EA 30" x 12" Duct Air Extractor <i>For Stainless Steel, Add</i>	194.73 71.19	69.98

23 33 59 Duct Pressure Relief Doors (23 33)**23 33 59 00-0001 Duct Pressure Relief Doors** (23 33 59)

23 33 59 00-0002 EA 18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	1,048.06	41.99
23 33 59 00-0003 EA 24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	861.65	35.00
23 33 59 00-0004 EA 24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	858.05	38.49

23 34 HVAC Fans (23 30)**23 34 13 Axial HVAC Fans** (23 34)

23 34 13 00-0001 Tube-Axial Fans (23 34 13)		
23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)		

23	23 Heating, Ventilating, and Air-Conditioning (HVAC)
	23 30 HVAC Air Distribution
	23 34 HVAC Fans



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0003	EA		12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure.....	1,790.28	429.77
			For 1/4" Static Pressure, Add	74.39	
			For 3/8" Static Pressure, Add	148.78	
			For 1/2" Static Pressure, Add	204.57	
23 34 13 00-0004	EA		12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure.....	1,856.70	431.05
			For 1/4" Static Pressure, Add	79.70	
			For 3/8" Static Pressure, Add	159.41	
			For 1/2" Static Pressure, Add	219.19	
23 34 13 00-0005	EA		16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure.....	1,989.54	429.77
			For 1/4" Static Pressure, Add	90.33	
			For 3/8" Static Pressure, Add	180.66	
			For 1/2" Static Pressure, Add	248.41	
23 34 13 00-0006	EA		20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure.....	2,122.38	431.05
			For 1/4" Static Pressure, Add	100.96	
			For 3/8" Static Pressure, Add	201.92	
			For 1/2" Static Pressure, Add	277.64	
23 34 13 00-0007	EA		22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure.....	2,493.72	516.24
			For 1/4" Static Pressure, Add	116.90	
			For 3/8" Static Pressure, Add	233.80	
			For 1/2" Static Pressure, Add	321.47	
23 34 13 00-0008	EA		24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure.....	2,849.18	561.41
			For 1/4" Static Pressure, Add	138.15	
			For 3/8" Static Pressure, Add	276.31	
			For 1/2" Static Pressure, Add	379.92	
23 34 13 00-0009	EA		24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure.....	3,022.48	614.33
			For 1/4" Static Pressure, Add	143.47	
			For 3/8" Static Pressure, Add	286.93	
			For 1/2" Static Pressure, Add	394.53	
23 34 13 00-0010	EA		30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure.....	3,416.04	645.30
			For 1/4" Static Pressure, Add	170.04	
			For 3/8" Static Pressure, Add	340.07	
			For 1/2" Static Pressure, Add	467.60	
23 34 13 00-0011	EA		30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure.....	4,137.21	806.62
			For 1/4" Static Pressure, Add	201.92	
			For 3/8" Static Pressure, Add	403.83	
			For 1/2" Static Pressure, Add	555.27	
23 34 13 00-0012	EA		36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure.....	4,643.28	860.83
			For 1/4" Static Pressure, Add	233.80	
			For 3/8" Static Pressure, Add	467.60	
			For 1/2" Static Pressure, Add	642.95	
23 34 13 00-0013	EA		36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure.....	5,439.38	992.47
			For 1/4" Static Pressure, Add	276.31	
			For 3/8" Static Pressure, Add	552.61	
			For 1/2" Static Pressure, Add	759.84	
23 34 13 00-0014 Belt Drive Tube-Axial Duct Fans <small>(23 34 13 00-0001)</small>					
23 34 13 00-0015	EA		15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure.....	1,702.59	416.87
			For 1/4" Static Pressure, Add	69.60	
			For 3/8" Static Pressure, Add	139.19	
			For 1/2" Static Pressure, Add	191.39	
23 34 13 00-0016	EA		15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure.....	1,799.02	431.05
			For 1/4" Static Pressure, Add	75.09	
			For 3/8" Static Pressure, Add	150.18	
			For 1/2" Static Pressure, Add	206.50	
23 34 13 00-0017	EA		18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure.....	1,859.20	445.25
			For 1/4" Static Pressure, Add	77.53	
			For 3/8" Static Pressure, Add	155.06	
			For 1/2" Static Pressure, Add	213.21	
23 34 13 00-0018	EA		18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure.....	1,962.21	460.74
			For 1/4" Static Pressure, Add	83.23	
			For 3/8" Static Pressure, Add	166.46	
			For 1/2" Static Pressure, Add	228.88	
23 34 13 00-0019	EA		18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....	2,189.67	478.81
			For 1/4" Static Pressure, Add	98.69	
			For 3/8" Static Pressure, Add	197.39	
			For 1/2" Static Pressure, Add	271.41	
23 34 13 00-0020	EA		24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....	2,305.30	496.87
			For 1/4" Static Pressure, Add	105.00	
			For 3/8" Static Pressure, Add	210.01	
			For 1/2" Static Pressure, Add	288.76	
23 34 13 00-0021	EA		24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....	2,558.68	516.24
			For 1/4" Static Pressure, Add	122.10	
			For 3/8" Static Pressure, Add	244.19	
			For 1/2" Static Pressure, Add	335.76	
23 34 13 00-0022	EA		24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....	2,849.26	516.24
			For 1/4" Static Pressure, Add	145.47	
			For 3/8" Static Pressure, Add	290.95	
			For 1/2" Static Pressure, Add	400.05	
23 34 13 00-0023	EA		30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....	3,282.43	561.41
			For 1/4" Static Pressure, Add	172.97	
			For 3/8" Static Pressure, Add	345.94	
			For 1/2" Static Pressure, Add	475.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	3,899.33 203.49 406.99 559.61	680.15
23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	4,392.10 242.46 484.91 666.76	680.15
23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	4,818.00 270.72 541.44 744.48	717.57
23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	5,248.86 298.73 597.45 821.50	758.87
23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	6,049.32 325.59 651.18 895.37	992.47
23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	6,828.58 387.93 775.86 1,066.81	993.76
23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure..... <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	7,740.96 432.23 864.47 1,188.64	1,172.89

23 34 16 Centrifugal HVAC Fans (23 34)

23 34 16 00-0001 Centrifugal Fans (23 34 16)

Note: All belt fans to be supplied with belt guard.

23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)

Note: V-belt driven.

23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)

Note: Under 30" diameter wheel.

23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0005 EA 1/6 HP, 12-1/4" Wheel, 450 To 1,750 CFM At 1/8" Static Pressure, Centrifugal Fan	1,184.07	283.55
23 34 16 00-0006 EA 1/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,652.46	294.25
23 34 16 00-0007 EA 1/3 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,703.30	234.50
23 34 16 00-0008 EA 1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,777.96	321.36
23 34 16 00-0009 EA 3/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,826.26	340.72
23 34 16 00-0010 EA 1 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,886.02	354.91
23 34 16 00-0011 EA 1-1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan	1,949.84	378.15

23 34 16 00-0012 13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0013 EA 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,893.54	309.74
23 34 16 00-0014 EA 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,930.23	321.36
23 34 16 00-0015 EA 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,997.44	340.72
23 34 16 00-0016 EA 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,037.94	354.91
23 34 16 00-0017 EA 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,111.78	378.15
23 34 16 00-0018 EA 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	2,182.76	396.22

23 34 16 00-0019 15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0020 EA 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,911.25	321.36
23 34 16 00-0021 EA 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,959.46	340.72
23 34 16 00-0022 EA 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,018.95	354.91
23 34 16 00-0023 EA 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,073.79	378.15
23 34 16 00-0024 EA 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,138.46	396.22
23 34 16 00-0025 EA 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,230.94	425.89
23 34 16 00-0026 EA 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	2,302.87	447.84

23 34 16 00-0027 16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0028 EA 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,177.84	340.72
23 34 16 00-0029 EA 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,257.06	354.91
23 34 16 00-0030 EA 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,347.98	378.15
23 34 16 00-0031 EA 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,397.90	396.22
23 34 16 00-0032 EA 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,466.16	425.89
23 34 16 00-0033 EA 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,523.36	447.84
23 34 16 00-0034 EA 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,797.87	486.55

23 34 16 00-0035 18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)

23 34 16 00-0036 EA 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,251.57	354.91
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23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0037 EA 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,311.16	378.15
23 34 16 00-0038 EA 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,385.33	396.22
23 34 16 00-0039 EA 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,449.33	425.89
23 34 16 00-0040 EA 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,530.76	447.84
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,655.45	486.55
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,738.13	516.24
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,864.36	567.87
23 34 16 00-0044 20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,282.68	378.15
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,356.82	396.22
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,449.33	425.89
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,530.76	447.84
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,683.93	486.55
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure	2,888.68	516.24
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	3,044.23	567.87
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	3,200.63	607.87
23 34 16 00-0053 22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,720.80	396.22
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,780.36	425.89
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,855.16	447.84
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	2,952.96	486.55
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,074.39	516.24
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,131.25	567.87
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,219.62	607.87
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure	3,377.71	681.43
23 34 16 00-0062 24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,253.23	425.89
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,377.06	486.55
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,488.22	516.24
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,613.92	567.87
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,722.85	607.87
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,833.48	681.43
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	3,970.73	740.80
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure	4,281.49	851.80
23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,595.77	447.84
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,725.60	516.24
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,851.29	567.87
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,960.23	607.87
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure	4,118.32	681.43
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,255.29	740.80
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,586.22	851.80
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	4,662.26	946.01
23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002) Note: Over 30" diameter wheel.		
23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,014.42	567.87
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,119.62	607.87
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,286.20	681.43
23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,432.66	740.80
23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	5,658.26	851.80
23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,858.61	946.01
23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	6,202.40	1,135.72
23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure	6,518.00	1,309.96
23 34 16 00-0090 33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0080)		
23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,859.21	607.87
23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	6,064.78	681.43
23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	6,249.51	740.80
23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,512.81	851.80
23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	6,751.15	946.01
23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	7,132.90	1,135.72
23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	7,545.04	1,309.96
23 34 16 00-0098 EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure	8,183.20	1,703.59
23 34 16 00-0099 36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0080)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0100 EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	4,923.00	681.43
23 34 16 00-0101 EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,012.78	740.80
23 34 16 00-0102 EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,181.12	851.80
23 34 16 00-0103 EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,343.65	946.01
23 34 16 00-0104 EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,096.61	1,135.72
23 34 16 00-0105 EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,442.00	1,309.96
23 34 16 00-0106 EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	7,121.05	1,703.59
23 34 16 00-0107 EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	7,849.74	2,129.48
23 34 16 00-0108 Kitchen System Fans <small>(23 34 16 00-0001)</small>		
23 34 16 00-0109 Upblast Kitchen Exhaust Fans <small>(23 34 16 00-0108)</small>		
23 34 16 00-0110 Direct Drive Kitchen Upblast Exhaust Fans <small>(23 34 16 00-0109)</small>		
Note: Greenheck CUE.		
23 34 16 00-0111 EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,087.81	167.77
Note: 115V. For roof or wall installations. Includes disconnect switch.		
<i>For Bird Screen, Add</i> 42.63		
<i>For Backdraft Damper, Add</i> 124.79		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0112 EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,257.16	167.77
Note: 115V. For roof or wall installations. Includes disconnect switch.		
<i>For Bird Screen, Add</i> 42.63		
<i>For Backdraft Damper, Add</i> 124.79		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0113 Belt Drive Kitchen Upblast Exhaust Fans <small>(23 34 16 00-0109)</small>		
Note: Greenheck CUBE.		
23 34 16 00-0114 EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,792.23	167.77
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> 42.63		
<i>For Wall Mounted Fan, Add</i> 71.69		
<i>For 3 Phase Motor, Deduct</i> -50.00		
<i>For Totally Enclosed Motor, Add</i> 85.00		
<i>For Grease Trap Kit, Add</i> 76.41		
<i>For Hinged Curb Kit, Add</i> 123.82		
<i>For Backdraft Damper, Add</i> 124.79		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0115 EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,865.73	167.77
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> 42.63		
<i>For Wall Mounted Fan, Add</i> 74.63		
<i>For 3 Phase Motor, Deduct</i> -50.00		
<i>For Totally Enclosed Motor, Add</i> 85.00		
<i>For Grease Trap Kit, Add</i> 76.41		
<i>For Hinged Curb Kit, Add</i> 130.06		
<i>For Backdraft Damper, Add</i> 124.79		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0116 EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,633.66	193.59
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> 48.51		
<i>For Wall Mounted Fan, Add</i> 65.35		
<i>For 3 Phase Motor, Deduct</i> -50.00		
<i>For Totally Enclosed Motor, Add</i> 85.00		
<i>For Grease Trap Kit, Add</i> 76.41		
<i>For Hinged Curb Kit, Add</i> 105.95		
<i>For Backdraft Damper, Add</i> 141.47		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,739.49	193.59
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> 48.51		
<i>For Wall Mounted Fan, Add</i> 69.58		
<i>For 3 Phase Motor, Deduct</i> -50.00		
<i>For Totally Enclosed Motor, Add</i> 85.00		
<i>For Grease Trap Kit, Add</i> 76.41		
<i>For Hinged Curb Kit, Add</i> 114.95		
<i>For Backdraft Damper, Add</i> 141.47		
<i>For Damper Motor, Add</i> 195.02		
23 34 16 00-0118 EA 16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,197.95	225.86
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> 48.51		
<i>For Wall Mounted Fan, Add</i> 87.92		
<i>For 3 Phase Motor, Deduct</i> -50.00		
<i>For Totally Enclosed Motor, Add</i> 85.00		
<i>For Grease Trap Kit, Add</i> 76.41		
<i>For Hinged Curb Kit, Add</i> 148.43		
<i>For Backdraft Damper, Add</i> 141.47		
<i>For Damper Motor, Add</i> 195.02		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0119 EA 16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,311.13	225.86
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	48.51	
For Wall Mounted Fan, Add	92.45	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	158.05	
For Backdraft Damper, Add	141.47	
For Damper Motor, Add	195.02	
23 34 16 00-0120 EA 18" Diameter Wheel, 1/2 HP, 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,515.37	241.99
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	100.61	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	172.67	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0121 EA 18" Diameter Wheel, 1 HP, 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,691.76	241.99
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	107.67	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	187.66	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0122 EA 20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,744.61	258.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	109.78	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	189.41	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0123 EA 20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	2,993.02	258.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	80.84	
For Wall Mounted Fan, Add	119.72	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	210.53	
For Backdraft Damper, Add	173.47	
For Damper Motor, Add	195.02	
23 34 16 00-0124 EA 24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,442.67	290.39
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	95.54	
For Wall Mounted Fan, Add	137.71	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	243.26	
For Backdraft Damper, Add	188.43	
For Damper Motor, Add	195.02	
23 34 16 00-0125 EA 24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,670.50	290.39
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	95.54	
For Wall Mounted Fan, Add	146.82	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	262.63	
For Backdraft Damper, Add	188.43	
For Damper Motor, Add	195.02	
23 34 16 00-0126 EA 30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,336.22	322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	102.89	
For Wall Mounted Fan, Add	173.45	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	313.73	
For Backdraft Damper, Add	208.49	
For Damper Motor, Add	195.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0127 EA 30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 4,411.18		322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	102.89	
For Wall Mounted Fan, Add	176.45	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	320.10	
For Backdraft Damper, Add	208.49	
For Damper Motor, Add	195.02	
23 34 16 00-0128 EA 30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 4,791.89		322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	102.89	
For Wall Mounted Fan, Add	191.68	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	352.46	
For Backdraft Damper, Add	208.49	
For Damper Motor, Add	195.02	
23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 4,975.63		322.65
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	102.89	
For Wall Mounted Fan, Add	199.03	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	368.08	
For Backdraft Damper, Add	208.49	
For Damper Motor, Add	195.02	
23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP , 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 5,478.41		354.91
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	117.59	
For Wall Mounted Fan, Add	219.14	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	405.33	
For Damper Motor, Add	195.02	
For Backdraft Damper, Add	242.43	
23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP , 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 5,689.70		354.91
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	117.59	
For Wall Mounted Fan, Add	227.59	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	423.29	
For Damper Motor, Add	195.02	
For Backdraft Damper, Add	242.43	
23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP , 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 5,760.13		387.18
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	117.59	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	423.80	
For Damper Motor, Add	195.02	
For Backdraft Damper, Add	278.75	
23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP , 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan 6,224.03		387.18
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	117.59	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	463.23	
For Damper Motor, Add	195.02	
For Backdraft Damper, Add	278.75	
23 34 16 00-0134 Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108)		
Note: Roof mounted with downblast discharge, weatherhood and filter.		
23 34 16 00-0135 Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan 1,244.13		167.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	220.14	
23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan 1,301.66		167.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	228.77	
23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan 1,372.26		167.77
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	239.36	
23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan 1,399.65		167.77
Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
For Extended Weatherhood, Add	243.47	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0141	EA		10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,594.37 284.33	225.86
23 34 16 00-0142	EA		12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan..... Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	1,912.64 338.52	258.12
23 34 16 00-0143	EA		15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan..... Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,232.79 399.45	322.65
23 34 16 00-0144	EA		18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan..... Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,699.86 482.41	387.18
23 34 16 00-0145			Replacement Parts (23 34 16 00-0001)		
23 34 16 00-0146			Replace Belts And Accessories (23 34 16 00-0145)		
23 34 16 00-0147	EA		Fan Shaft Bearing, Replacement	1,003.42	463.07
23 34 16 00-0148	EA		Fan Belt, Replacement	156.62	62.81
23 34 16 00-0149			Corrosive Fume Resistant Plastic (23 34 16 00-0001)		
23 34 16 00-0150			Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)		
23 34 16 00-0151	EA		250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,199.00 709.94	233.05
23 34 16 00-0152	EA		895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,661.58 765.26	279.95
23 34 16 00-0153	EA		1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	6,723.55 903.56	349.93
23 34 16 00-0154	EA		2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	7,264.73 949.65	466.80
23 34 16 00-0155	EA		3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	8,406.87 1,051.07	699.85
23 34 16 00-0156	EA		11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	14,600.96 1,770.23	1,399.71
23 34 16 00-0157	EA		18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	21,273.74 2,590.80	2,000.89
23 34 16 00-0158			Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)		
23 34 16 00-0159	EA		1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,199.00 709.94	233.05
23 34 16 00-0160	EA		1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,354.25 719.16	279.95
23 34 16 00-0161	EA		1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,494.22 719.16	349.93
23 34 16 00-0162	EA		2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	5,728.07 719.16	466.80
23 34 16 00-0163	EA		3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	7,915.14 977.31	699.85
23 34 16 00-0164	EA		4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	8,265.07 977.31	874.82
23 34 16 00-0165	EA		4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	8,517.56 977.31	1,001.07
23 34 16 00-0166	EA		6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	8,737.93 995.75	1,049.78
23 34 16 00-0167	EA		7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic..... <i>For Explosion Proof Motor, Add</i>	9,032.69 1,004.97	1,166.38
23 34 16 00-0168			In-Line Duct Fans (23 34 16 00-0001)		
23 34 16 00-0169			Direct Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck SQ.		
23 34 16 00-0170	EA		Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,218.14	167.77
23 34 16 00-0171	EA		13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,531.62	180.69
23 34 16 00-0172	EA		14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan Note: 115V. Includes disconnect switch.	1,676.11	193.59
23 34 16 00-0173			Belt Drive In-Line Duct Fans (23 34 16 00-0168) Note: Greenheck BSQ.		
23 34 16 00-0174	EA		Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan..... Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	1,744.77 -50.00 85.00	193.59



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0175	EA		13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan.....	2,007.83	225.86
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0176	EA		13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan.....	2,236.96	225.86
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0177	EA		13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	2,431.75	225.86
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0178	EA		16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan.....	2,397.02	258.12
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0179	EA		16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	2,726.90	258.12
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0180	EA		24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan.....	3,465.71	322.65
			Note: 115/208-230/60/1. Includes disconnect switch.		
			<i>For 3 Phase Motor, Deduct</i>	-50.00	
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0181	EA		24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	3,647.82	322.65
			Note: 230/460/60/3. Includes disconnect switch.		
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0182	EA		24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	3,776.19	322.65
			Note: Belt drive. 230/460/60/3. Includes disconnect switch.		
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0183	EA		30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	4,377.74	387.18
			Note: 230/460/60/3. Includes disconnect switch.		
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0184	EA		30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	4,530.96	387.18
			Note: 230/460/60/3. Includes disconnect switch.		
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0185	EA		30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan.....	4,719.25	387.18
			Note: 230/460/60/3. Includes disconnect switch.		
			<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0186 In-Line Cabinet Fans (23 34 16 00-0001)					
23 34 16 00-0187	EA		950 CFM, 80 Watt, Direct Drive In-Line Cabinet Fan.....	420.98	112.92
23 34 16 00-0188	EA		1,050 CFM, 129 Watt, Direct Drive In-Line Cabinet Fan.....	441.52	112.92
23 34 16 00-0189	EA		1,100 CFM, 173 Watt, Direct Drive In-Line Cabinet Fan.....	469.39	112.92
23 34 16 00-0190	EA		950 CFM, 48.7 Watt, Direct Drive In-Line Cabinet Fan.....	467.92	112.92
23 34 16 00-0191	EA		1,100 CFM, 52.5 Watt, Direct Drive In-Line Cabinet Fan.....	467.92	112.92
23 34 16 00-0192	EA		1,400 CFM, 100 Watt, Direct Drive In-Line Cabinet Fan.....	511.94	112.92
23 34 16 00-0193	EA		900 CFM, 48.2 Watt, Direct Drive In-Line Cabinet Fan.....	604.06	119.38
23 34 16 00-0194	EA		1,000 CFM, 82.7 Watt, Direct Drive In-Line Cabinet Fan.....	526.30	119.38
23 34 16 00-0195	EA		1,050 CFM, 80.7 Watt, Direct Drive In-Line Cabinet Fan.....	555.64	119.38
23 34 16 00-0196	EA		1,350 CFM, 140 Watt, Direct Drive In-Line Cabinet Fan.....	574.72	119.38
23 34 16 00-0197	EA		1,000 CFM, 135 Watt, Direct Drive In-Line Cabinet Fan.....	596.72	119.38
23 34 16 00-0198	EA		1,070 CFM, 217 Watt, Direct Drive In-Line Cabinet Fan.....	596.72	119.38
23 34 16 00-0199	EA		1,100 CFM, 350 Watt, Direct Drive In-Line Cabinet Fan.....	927.98	125.83
23 34 16 00-0200	EA		1,080 CFM, 325 Watt, Direct Drive In-Line Cabinet Fan.....	794.48	125.83
23 34 16 00-0201	EA		1,600 CFM, 405 Watt, Direct Drive In-Line Cabinet Fan.....	794.48	125.83
23 34 16 00-0202	EA		950 CFM, 328 Watt, Direct Drive In-Line Cabinet Fan.....	1,045.35	125.83
23 34 16 00-0203	EA		1,095 CFM, 455 Watt, Direct Drive In-Line Cabinet Fan.....	1,045.35	125.83
23 34 16 00-0204	EA		1,450 CFM, 822 Watt, Direct Drive In-Line Cabinet Fan.....	1,045.35	125.83
23 34 16 00-0205	EA		1,640 CFM, 830 Watt, Direct Drive In-Line Cabinet Fan.....	1,392.12	125.83
23 34 16 00-0206 Propeller And Ceiling Fans (23 34 16)					
23 34 16 00-0207 Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0206)					
			Note: Greenheck SE1.		
23 34 16 00-0208	EA		1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	611.50	138.09
			Note: Includes motor side guard.		
			<i>For Backdraft Damper, Add</i>	135.78	
			<i>For Wall Mount Collar, Add</i>	211.53	
23 34 16 00-0209	EA		1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	652.77	153.58
			Note: Includes motor side guard.		
			<i>For Backdraft Damper, Add</i>	147.32	
			<i>For Wall Mount Collar, Add</i>	211.53	
23 34 16 00-0210	EA		1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	723.06	170.36
			Note: Includes motor side guard.		
			<i>For Backdraft Damper, Add</i>	162.28	
			<i>For Wall Mount Collar, Add</i>	217.23	
23 34 16 00-0211	EA		1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	1,016.27	188.42
			<i>For Backdraft Damper, Add</i>	192.59	
			<i>For Wall Mount Collar, Add</i>	221.46	
			<i>For Motor Side Guard, Add</i>	177.52	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0212 EA 1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,174.70	209.07
For Backdraft Damper, Add	192.59	
For Wall Mount Collar, Add	227.16	
For Motor Side Guard, Add	189.09	
23 34 16 00-0213 EA 1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,319.32	232.31
For Backdraft Damper, Add	231.40	
For Wall Mount Collar, Add	232.85	
For Motor Side Guard, Add	200.67	
23 34 16 00-0214 EA 1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan	1,502.97	258.12
For Backdraft Damper, Add	231.40	
For Wall Mount Collar, Add	237.09	
For Motor Side Guard, Add	216.65	
23 34 16 00-0215 Belt Drive Propeller Exhaust Fans (23 34 16 00-0206)		
Note: Wall shutter 1/8" static pressure, with birdscreen.		
23 34 16 00-0216 EA 24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter.....	2,215.69	369.11
23 34 16 00-0217 EA 30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter.....	2,541.78	429.77
23 34 16 00-0218 EA 36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter.....	2,898.20	516.24
23 34 16 00-0219 EA 42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter.....	3,996.72	645.30
23 34 16 00-0220 EA 48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter.....	4,815.62	860.83
23 34 16 00-0221 EA 54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter.....	6,739.07	1,290.60
23 34 16 00-0222 EA 60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter.....	8,144.36	1,654.54
23 34 16 00-0223 Propeller Exhaust Fan Accessories (23 34 16 00-0206)		
23 34 16 00-0224 SF Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening).....	115.72	
23 34 16 00-0225 SF Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening).....	263.05	
23 34 16 00-0226 Reversible Ceiling Fans (23 34 16 00-0206)		
23 34 16 00-0227 4 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0228 EA 42" 4-Blade Ceiling Fan, Three Speed.....	531.62	67.83
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.13	
23 34 16 00-0229 5 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0230 EA 42" 5-Blade Ceiling Fan, Three Speed.....	579.86	167.85
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.20	
23 34 16 00-0231 EA 52" 5-Blade Ceiling Fan, Three Speed.....	660.42	167.85
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.34	
23 34 16 00-0232 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0233 EA 3-Blade Ceiling Fan, Weatherproof, Three Speed.....	543.27	63.89
23 34 16 00-0234 Explosion Proof Industrial Blowers (23 34 16 00-0206)		
23 34 16 00-0235 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof	4,575.79	
23 34 16 00-0236 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof	5,016.99	
23 34 16 00-0237 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof	6,647.64	
23 34 16 00-0238 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof	6,951.38	
23 34 16 00-0239 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure.....	4,179.34	
23 34 16 00-0240 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure.....	4,444.12	
23 34 16 00-0241 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure.....	6,063.81	
23 34 16 00-0242 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure.....	6,563.41	
23 34 16 00-0243 Exhaust Fans (23 34 16)		
23 34 16 00-0244 Exhaust Fans (23 34 16 00-0243)		
Note: Excludes ducting.		
23 34 16 00-0245 Light Duty Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0246 Light Duty Exhaust Fans (23 34 16 00-0245)		
23 34 16 00-0247 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670).....	152.50	54.81
23 34 16 00-0248 EA 70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671).....	159.67	54.81
23 34 16 00-0249 EA 180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505).....	245.65	54.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0250 EA 350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504).....	303.15	54.81
23 34 16 00-0251 EA 160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503).....	273.96	54.81
23 34 16 00-0252 EA 270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502).....	355.61	54.81
23 34 16 00-0253 Light Duty Exhaust Fans With Lights (23 34 16 00-0245)		
23 34 16 00-0254 EA 50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678).....	190.81	54.81
23 34 16 00-0255 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679).....	208.76	54.81
23 34 16 00-0256 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680).....	366.57	54.81
23 34 16 00-0257 Light Duty Exhaust Fans With Heaters (23 34 16 00-0245)		
23 34 16 00-0258 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162).....	194.70	54.81
23 34 16 00-0259 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658).....	293.10	54.81
23 34 16 00-0260 Light Duty Exhaust Fans With Heaters And Lights (23 34 16 00-0245)		
23 34 16 00-0261 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655).....	310.15	54.81
23 34 16 00-0262 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL).....	456.61	54.81
23 34 16 00-0263 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0264 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0263)		
Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0265 EA 50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50).....	221.80	54.81
23 34 16 00-0266 EA 80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80).....	242.36	54.81
23 34 16 00-0267 EA 109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG).....	420.36	54.81
23 34 16 00-0268 EA 157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG).....	429.89	54.81
23 34 16 00-0269 EA 210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG).....	459.56	54.81
23 34 16 00-0270 EA 259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG).....	478.51	54.81
23 34 16 00-0271 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG).....	485.85	54.81
23 34 16 00-0272 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400).....	552.07	54.81
23 34 16 00-0273 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500).....	625.11	54.81
23 34 16 00-0274 EA 701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700).....	666.71	54.81
23 34 16 00-0275 EA 901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900).....	788.24	54.81
23 34 16 00-0276 EA 1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500).....	1,004.72	54.81
23 34 16 00-0277 Heavy Duty/Continuous Operation Kitchen Exhaust Fans (23 34 16 00-0263)		
Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0278 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	435.44	54.81
23 34 16 00-0279 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	619.65	54.81
23 34 16 00-0280 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	653.76	54.81
23 34 16 00-0281 Heavy Duty/Continuous Operation Exhaust Fans With Lights (23 34 16 00-0263)		
23 34 16 00-0282 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	238.64	54.81
23 34 16 00-0283 EA 80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	257.95	54.81
23 34 16 00-0284 Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0263)		
23 34 16 00-0285 EA 50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....	247.12	54.81
23 34 16 00-0286 EA 80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....	259.91	54.81
23 34 16 00-0287 EA 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF).....	266.08	54.81
23 34 16 00-0288 Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0244)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0289 EA 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900)	1,077.52	54.81
23 34 16 00-0290 EA 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050)	1,077.52	54.81
23 34 16 00-0291 EA 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410)	1,077.52	54.81
23 34 16 00-0292 EA 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550)	1,179.76	54.81
23 34 16 00-0293 Room-To-Room Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0294 EA 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512)	185.98	54.81
23 34 16 00-0295 EA 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511)	290.42	54.81
23 34 16 00-0296 EA 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510)	328.48	54.81
23 34 16 00-0297 Through-Wall Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0298 EA 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507)	308.58	54.81
23 34 16 00-0299 EA 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506)	361.03	54.81
23 34 16 00-0300 EA 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509)	272.51	54.81
23 34 16 00-0301 EA 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508)	355.61	54.81
23 34 16 00-0302 EA 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C)	601.59	54.81
23 34 16 00-0303 Exhaust Fan Accessories (23 34 16 00-0244)		
23 34 16 00-0304 Exhaust Fan Controls (23 34 16 00-0303)		
23 34 16 00-0305 EA Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57)	171.61	34.26
23 34 16 00-0306 EA 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59).....	125.21	34.26
23 34 16 00-0307 EA 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61)	126.32	34.26
23 34 16 00-0308 Roof And Wall Caps For Exhaust Fans (23 34 16 00-0303)		
23 34 16 00-0309 Wall Caps For Exhaust Fans (23 34 16 00-0308)		
23 34 16 00-0310 EA Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613)	283.46	70.08
23 34 16 00-0311 EA Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643)	287.11	70.08
23 34 16 00-0312 Roof Caps For Exhaust Fans (23 34 16 00-0308)		
Note: Includes flashing and built in bird screen.		
23 34 16 00-0313 EA Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611)	245.76	70.08
23 34 16 00-0314 EA Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612)	340.61	70.08
23 34 16 00-0315 EA CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636)	172.85	70.08
23 34 16 00-0316 EA CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634)	201.30	70.08
23 34 16 00-0317 Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan (23 34 16 00-0244)		
Note: Includes storage and cleaning.		
23 34 16 00-0318 EA Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan	96.79	
23 34 23 HVAC Power Ventilators (23 34)		
23 34 23 00-0001 Power Roof Ventilators (23 34 23)		
23 34 23 00-0002 Direct Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)		
Note: Greenheck G.		
23 34 23 00-0003 EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	711.71	184.56
Note: Three speed motor.		
For 12" Roof Curb, Add	202.32	
For Backdraft Damper, Add	114.94	
For Solid State Speed Control, Add	100.03	
For Damper Motor, Add	195.02	
23 34 23 00-0004 EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	778.61	209.07
Note: Three speed motor.		
For 12" Roof Curb, Add	202.32	
For Backdraft Damper, Add	114.94	
For Solid State Speed Control, Add	100.03	
For Damper Motor, Add	195.02	
23 34 23 00-0005 EA 1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,110.93	243.92
For 12" Roof Curb, Add	206.72	
For Backdraft Damper, Add	124.79	
For Solid State Speed Control, Add	100.03	
For Damper Motor, Add	195.02	
23 34 23 00-0006 EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,145.21	274.89
For 12" Roof Curb, Add	206.72	
For Backdraft Damper, Add	124.79	
For Solid State Speed Control, Add	100.03	
For Damper Motor, Add	195.02	
23 34 23 00-0007 EA 1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,469.64	303.29
For 12" Roof Curb, Add	206.72	
For Backdraft Damper, Add	124.79	
For Solid State Speed Control, Add	100.03	
For Damper Motor, Add	195.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0008 EA 1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Solid State Speed Control, Add</i> <i>For Damper Motor, Add</i>	1,666.81 214.07 141.47 145.59 195.02	322.65
23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001) Note: Greenheck GB.		
23 34 23 00-0010 EA 1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	1,643.85 206.72 124.79 195.02	274.89
23 34 23 00-0011 EA 1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	1,792.66 214.07 141.47 195.02	349.75
23 34 23 00-0012 EA 1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	2,426.99 214.07 141.47 195.02	416.87
23 34 23 00-0013 EA 3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	3,095.64 249.35 173.47 195.02	516.24
23 34 23 00-0014 EA 1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,083.22 265.52 188.43 195.02	645.30
23 34 23 00-0015 EA 1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,730.91 290.51 208.49 195.02	806.62
23 34 23 00-0016 EA 2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,766.19 290.51 208.49 195.02	806.62
23 34 23 00-0017 EA 3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	5,146.89 290.51 208.49 195.02	806.62
23 34 23 00-0018 EA 5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	5,893.58 290.51 208.49 195.02	806.62
23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast (23 34 23 00-0001) Note: Includes back draft damper and birdscreen and curb.		
23 34 23 00-0020 EA 30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure	7,391.22	992.47
23 34 23 00-0021 EA 36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure	11,958.49	1,290.21
23 34 23 00-0022 Belt Drive Supply Fans (23 34 23 00-0001)		
23 34 23 00-0023 EA 4,500 CFM, 24" x 24" Supply Fan, Roof Mounted	2,976.82	515.34
23 34 23 00-0024 EA 10,000 CFM, 36" x 36" Supply Fan, Roof Mounted	3,999.75	645.17
23 34 23 00-0025 Fan Thermostat (23 34 23 00-0001)		
23 34 23 00-0026 EA 50 To 120 Degree Line Voltage Fan Thermostat.....	136.90	
23 34 23 00-0027 Power Wall Ventilators (23 34 23)		
23 34 23 00-0028 Centrifugal Sidewall Exhausters (23 34 23 00-0027)		
23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster (23 34 23 00-0028) Note: Greenheck CW.		
23 34 23 00-0030 EA 1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	935.92 145.59 146.37 314.90 101.08	207.78
23 34 23 00-0031 EA 1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,074.31 145.59 163.04 314.90 120.00	243.92
23 34 23 00-0032 EA 1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,600.23 145.59 184.81 314.90 138.93	274.89

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters <small>(23 34 23 00-0028)</small> Note: Greenheck CWB.		
23 34 23 00-0034 EA 1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	1,920.28	155.37
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	175.21	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	209.30	
23 34 23 00-0035 EA 1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,035.91	174.97
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	175.21	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	209.30	
23 34 23 00-0036 EA 3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster	2,490.53	200.15
For Solid State Speed Control, Add	145.59	
For Backdraft Damper, Add	216.99	
For Damper Motor, Add	314.90	
For Interior Wall Grill, Add	242.93	
23 34 33 Air Curtains <small>(23 34)</small>		
23 34 33 00-0001 Unheated Air Curtains For Entrances <small>(23 34 33)</small>		
23 34 33 00-0002 Unheated Air Curtains, Standard Velocity <small>(23 34 33 00-0001)</small>		
23 34 33 00-0003 EA Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated.....	2,408.13	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0004 EA Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated.....	2,436.78	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0005 EA Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated.....	2,467.82	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0006 EA Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated.....	2,981.15	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0007 EA Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated.....	3,406.45	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....	3,585.52	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Distribution

23 30

HVAC Fans

23 34

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....	3,993.51	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....	4,708.60	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated.....	4,799.33	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated.....	5,040.47	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	441.35	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	327.86	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	504.40	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0013 Unheated Air Curtains, High Velocity (23 34 33 00-0001)		
23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated.....	2,883.26	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....	2,920.27	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....	2,935.79	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....	2,965.64	946.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated.....	4,495.19	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated.....	4,679.04	1,135.72
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated.....	5,018.99	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated.....	5,655.28	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated.....	5,722.13	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated.....	5,982.38	1,309.96
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	278.27	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0024 Service Window Unheated Air Curtains (23 34 33 00-0001)		
Note: Normal window sizes.		
23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated.....	2,084.89	745.97
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0026 Heated Air Curtains For Entrances (23 34 33)		
Note: Includes housing, mounting brackets and manual controls.		
23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater.....	3,953.08	833.08
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater.....	4,257.95	833.08
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater.....	4,742.86	999.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters.....	5,108.70	999.57
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	
23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater.....	6,322.71	1,332.54
For Door Limit Switch, Combination Roller And Plunger, Add	162.13	
For Flat Side Extension Plates, Add	139.14	
For Clearance Adjustable-Angle Mounting Bracket, Add	278.27	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	333.93	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	352.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	6,810.50 162.13 139.14 278.27 333.93 352.48	1,332.54
23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	7,704.65 162.13 139.14 278.27 333.93 352.48	1,623.57
23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	8,299.14 162.13 139.14 278.27 333.93 352.48	1,623.57
23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	9,680.93 162.13 139.14 278.27 333.93 352.48	2,039.78
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	11,159.53 162.13 139.14 278.27 333.93 352.48	2,039.78
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	11,064.76 162.13 139.14 278.27 333.93 352.48	2,331.46
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	12,754.23 162.13 139.14 278.27 333.93 352.48	2,331.46
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	12,641.04 162.13 139.14 278.27 333.93 352.48	2,664.43
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	14,571.87 162.13 139.14 278.27 333.93 352.48	2,664.43

23 35 Special Exhaust Systems (23 30)

See CSI section 23 31 13 16-0075 for spiral duct/piping.

23 35 13 Dust Collection Systems (23 35)

23 35 13 13 Sawdust Collection Systems (23 35 13)

23 35 13 13-0001 Dust Collector System (23 35 13 13)

23 35 13 13-0002 EA 1.5 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	4,291.28	1,119.77
23 35 13 13-0003 EA 2 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	4,852.94	1,329.73
23 35 13 13-0004 EA 2-1/2 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	5,797.93	1,539.68
23 35 13 13-0005 EA 3 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	6,648.96	1,819.63
23 35 13 13-0006 EA 5 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	12,856.43	1,992.99
23 35 13 13-0007 EA 7-1/2 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	15,550.23	2,325.15
23 35 13 13-0008 EA 10 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	17,809.11	2,657.31
23 35 13 13-0009 EA 15 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.</i>	20,060.30	3,055.91
23 35 13 13-0010 EA 20 HP Dust Collector Central Vacuum Unit <i>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.</i>	22,407.31	3,454.51

23 35 13 13-0011 Vacuum Tubing And Accessories (23 35 13 13)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 35 Special Exhaust Systems



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 35 13 13-0012	Vacuum Tubing <small>(23 35 13 13-0011)</small>		
23 35 13 13-0013	Galvanized Vacuum Tubing <small>(23 35 13 13-0012)</small>		
23 35 13 13-0014	LF 2-1/8" Outside Diameter Vacuum Tubing, Galvanized.....	10.17	2.32
23 35 13 13-0015	LF 2-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	11.30	2.46
23 35 13 13-0016	LF 3" Outside Diameter Vacuum Tubing, Galvanized.....	13.26	2.59
23 35 13 13-0017	LF 3-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	16.90	2.71
23 35 13 13-0018	LF 4" Outside Diameter Vacuum Tubing, Galvanized.....	17.40	2.84
23 35 13 13-0019	LF 5" Outside Diameter Vacuum Tubing, Galvanized.....	27.97	3.23
23 35 13 13-0020	LF 6" Outside Diameter Vacuum Tubing, Galvanized.....	31.56	3.74
23 35 13 13-0021	LF 8" Outside Diameter Vacuum Tubing, Galvanized.....	42.78	5.16
23 35 13 13-0022	LF 10" Outside Diameter Vacuum Tubing, Galvanized.....	50.34	6.45
23 35 13 13-0023	LF 12" Outside Diameter Vacuum Tubing, Galvanized.....	121.21	8.51
23 35 13 13-0024	Vacuum Fittings, Galvanized <small>(23 35 13 13-0011)</small>		
23 35 13 13-0025	90 Degree Elbow <small>(23 35 13 13-0024)</small>		
23 35 13 13-0026	EA 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	52.84	14.84
23 35 13 13-0027	EA 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	63.98	15.88
23 35 13 13-0028	EA 3" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	78.29	17.30
23 35 13 13-0029	EA 3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	91.45	18.72
23 35 13 13-0030	EA 4" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	107.95	20.65
23 35 13 13-0031	EA 5" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	171.98	22.97
23 35 13 13-0032	EA 6" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	225.58	25.81
23 35 13 13-0033	EA 8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	397.94	34.45
23 35 13 13-0034	45 Degree Elbow <small>(23 35 13 13-0024)</small>		
23 35 13 13-0035	EA 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	50.04	14.84
23 35 13 13-0036	EA 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	61.68	15.88
23 35 13 13-0037	EA 3" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	70.54	17.30
23 35 13 13-0038	EA 3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	82.72	18.72
23 35 13 13-0039	EA 4" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	99.88	20.65
23 35 13 13-0040	EA 5" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	143.97	22.97
23 35 13 13-0041	EA 6" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	184.39	25.81
23 35 13 13-0042	EA 8" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	328.74	34.45
23 35 13 13-0043	Wye <small>(23 35 13 13-0024)</small>		
23 35 13 13-0044	EA 2-1/8" Wye, Vacuum Tubing, Galvanized.....	94.56	24.52
23 35 13 13-0045	EA 2-1/2" Wye, Vacuum Tubing, Galvanized.....	111.75	26.45
23 35 13 13-0046	EA 3" Wye, Vacuum Tubing, Galvanized.....	134.18	28.40
23 35 13 13-0047	EA 3-1/2" Wye, Vacuum Tubing, Galvanized.....	160.93	31.62
23 35 13 13-0048	EA 4" Wye, Vacuum Tubing, Galvanized.....	210.10	34.20
23 35 13 13-0049	EA 5" Wye, Vacuum Tubing, Galvanized.....	343.15	38.08
23 35 13 13-0050	EA 6" Wye, Vacuum Tubing, Galvanized.....	450.13	43.24
23 35 13 13-0051	EA 8" Wye, Vacuum Tubing, Galvanized.....	866.65	47.10
23 35 13 13-0052	EA 10" Wye, Vacuum Tubing, Galvanized.....	1,192.14	51.62
23 35 13 13-0053	EA 12" Wye, Vacuum Tubing, Galvanized.....	1,501.80	57.82
23 35 13 13-0054	Reducer <small>(23 35 13 13-0024)</small>		
23 35 13 13-0055	EA 3" Reducer, Vacuum Tubing, Galvanized.....	55.71	17.30
23 35 13 13-0056	EA 4" Reducer, Vacuum Tubing, Galvanized.....	61.70	18.72
23 35 13 13-0057	EA 5" Reducer, Vacuum Tubing, Galvanized.....	76.13	20.65
23 35 13 13-0058	EA 6" Reducer, Vacuum Tubing, Galvanized.....	82.54	22.97
23 35 13 13-0059	EA 8" Reducer, Vacuum Tubing, Galvanized.....	95.95	25.81
23 35 13 13-0060	Flexible Hose <small>(23 35 13 13-0011)</small>		
23 35 13 13-0061	LF 2" Flexible Hose.....	11.68	2.32
23 35 13 13-0062	LF 3" Flexible Hose.....	13.87	2.59
23 35 13 13-0063	LF 4" Flexible Hose.....	15.07	2.84
23 35 13 13-0064	Air Gate Valve, Galvanized <small>(23 35 13 13-0011)</small>		
23 35 13 13-0065	EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized.....	335.50	34.45
23 35 13 13-0066	EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	351.88	36.78
23 35 13 13-0067	EA 3" Air Gate Valve, Vacuum Tubing, Galvanized.....	402.91	39.62
23 35 13 13-0068	EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	456.83	42.33
23 35 13 13-0069	EA 4" Air Gate Valve, Vacuum Tubing, Galvanized.....	513.78	44.91
23 35 13 13-0070	EA 5" Air Gate Valve, Vacuum Tubing, Galvanized.....	605.56	51.24
23 35 13 13-0071	EA 6" Air Gate Valve, Vacuum Tubing, Galvanized.....	696.24	57.43

23 35 16 Engine Exhaust Systems (23 35)

23 35 16 16 Mechanical Engine Exhaust Systems (23 35 16)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0001 Tailpipe Exhaust Equipment (23 35 16 16)		
23 35 16 16-0002 Overhead Tailpipe Exhaust System (23 35 16 16-0001)		
23 35 16 16-0003 Overhead Tailpipe Exhaust Blowers (23 35 16 16-0002)		
23 35 16 16-0004 Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0005 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	3,158.80	274.89
23 35 16 16-0006 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	3,778.66	561.41
23 35 16 16-0007 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System.....	5,207.82	680.15
23 35 16 16-0008 Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0009 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,681.77	561.41
23 35 16 16-0010 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	3,963.29	680.15
23 35 16 16-0011 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	4,876.66	1,076.35
23 35 16 16-0012 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	6,003.85	1,388.68
23 35 16 16-0013 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System.....	7,537.84	1,654.54
23 35 16 16-0014 Spiral Exhaust Duct Accessories (23 35 16 16-0002)		
23 35 16 16-0015 Flex Hose x Length (23 35 16 16-0014)		
Note: Includes duct coupler, damper and tailpipe adapter.		
23 35 16 16-0016 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	176.72	68.41
23 35 16 16-0017 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	158.06	68.41
23 35 16 16-0018 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	273.44	108.41
23 35 16 16-0019 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	242.26	108.41
23 35 16 16-0020 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	401.56	171.65
23 35 16 16-0021 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	390.40	171.65
23 35 16 16-0022 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	620.73	272.32
23 35 16 16-0023 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	597.26	272.32
23 35 16 16-0024 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter (23 35 16 16-0014)		
23 35 16 16-0025 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	191.60	68.41
23 35 16 16-0026 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	284.31	108.41
23 35 16 16-0027 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	170.11	68.41
23 35 16 16-0028 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	252.42	108.41
23 35 16 16-0029 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter.....	1,192.83	92.14
23 35 16 16-0030 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....	1,105.41	169.07
23 35 16 16-0031 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter.....	1,206.46	169.07
23 35 16 16-0032 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.).....	60.26	13.16
23 35 16 16-0033 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.).....	66.47	13.16
23 35 16 16-0034 Flexible Hose (23 35 16 16-0014)		
23 35 16 16-0035 LF 3" Stainless Steel Flexible Tubing.....	26.98	3.23
23 35 16 16-0036 LF 4" Stainless Steel Flexible Tubing.....	33.86	3.61
23 35 16 16-0037 LF 5" Stainless Steel Flexible Tubing.....	39.80	3.74
23 35 16 16-0038 LF 6" Stainless Steel Flexible Tubing.....	46.56	4.00
23 35 16 16-0039 LF 3" Galvanized Flexible Tubing.....	17.89	3.23
23 35 16 16-0040 LF 4" Galvanized Flexible Tubing.....	20.84	3.61
23 35 16 16-0041 LF 5" Galvanized Flexible Tubing.....	23.63	3.74
23 35 16 16-0042 LF 6" Galvanized Flexible Tubing.....	26.21	4.00
23 35 16 16-0043 Accessories (23 35 16 16-0002)		
23 35 16 16-0044 EA 3" Tail Pipe Adapter.....	50.20	9.68
23 35 16 16-0045 EA 4" Tail Pipe Adapter.....	51.44	9.68
23 35 16 16-0046 EA 5" Tail Pipe Adapter.....	55.25	10.97
23 35 16 16-0047 EA 3" Bullnose (Guide).....	28.67	6.45
23 35 16 16-0048 EA 4" Bullnose (Guide).....	30.65	7.09
23 35 16 16-0049 EA 5" Bullnose (Guide).....	32.83	7.75
23 35 16 16-0050 EA Flex-Hose Winch And Associated Hardware.....	229.35	73.18
23 35 16 16-0051 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope.....	0.10	
23 35 16 16-0052 Automatic Exhaust Extraction System (23 35 16 16-0001)		
Note: (Neiderman System) Includes track, hydraulic shock absorber, automatic disconnect box, flexible hose, electromagnetic ergonomic positioner, nozzle, power supply and accessories.		
23 35 16 16-0053 EA Magnatrack System For One Vehicle (30" To 40" Track).....	32,572.80	
23 35 16 16-0054 EA Magnatrack System For Two Vehicles (2 Each 30" Tracks).....	47,049.60	
23 35 16 16-0055 EA Magnatrack System For Tandem Vehicles (2 Each 30" Tracks).....	47,049.60	
23 35 16 16-0056 EA Magnarail System For One Vehicle (33" Rail).....	38,604.80	
23 35 16 16-0057 EA Magnarail System For Two Vehicles in Tandem (66" Rail).....	57,907.20	
23 35 16 16-0058 EA Magnastack For One Vehicle, Vertical Exhaust Stacks (30" Stack).....	30,160.00	

23 35 19 Fume Exhaust Systems (23 35)

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 35 Special Exhaust Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 35 19 00-0001	EA		Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle	2,392.17	515.85
23 35 19 00-0002	EA		Hose Extension Kit 5'	436.90	114.60

23 36 Air Terminal Units (23 30)

23 36 13 Constant-Air-Volume Units (23 36)

23 36 13 00-0001 Vertical Units, With Electric Heating Coils (23 36 13)

23 36 13 00-0002	EA		60 CFM Vertical Induction Unit, With Electric Heating Coils	1,564.03	183.16
23 36 13 00-0003	EA		90 CFM Vertical Induction Unit, With Electric Heating Coils	1,868.66	197.24
23 36 13 00-0004	EA		120 CFM Vertical Induction Unit, With Electric Heating Coils	1,990.19	204.29
23 36 13 00-0005	EA		150 CFM Vertical Induction Unit, With Electric Heating Coils	2,125.81	218.38
23 36 13 00-0006	EA		175 CFM Vertical Induction Unit, With Electric Heating Coils	2,386.34	225.42

23 36 13 00-0007 Horizontal Units, With Electric Heating Coils (23 36 13)

23 36 13 00-0008	EA		60 CFM Horizontal Induction Unit, With Electric Heating Coils	1,342.97	183.16
23 36 13 00-0009	EA		90 CFM Horizontal Induction Unit, With Electric Heating Coils	1,592.21	197.24
23 36 13 00-0010	EA		120 CFM Horizontal Induction Unit, With Electric Heating Coils	1,884.49	207.82

23 36 13 00-0011 Duct Boxes, Constant Volume Control (23 36 13)

23 36 13 00-0012 Single Duct Boxes, Constant Volume Control (23 36 13 00-0011)

23 36 13 00-0013	EA		4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control	1,256.05	53.18
			<i>For Boxes With Motor, Add</i>	209.22	
23 36 13 00-0014	EA		6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control	1,389.48	57.39
			<i>For Boxes With Motor, Add</i>	232.09	
23 36 13 00-0015	EA		7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control	1,446.68	62.98
			<i>For Boxes With Motor, Add</i>	238.95	
23 36 13 00-0016	EA		9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control	1,474.31	65.79
			<i>For Boxes With Motor, Add</i>	242.37	
23 36 13 00-0017	EA		12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control	1,501.46	72.78
			<i>For Boxes With Motor, Add</i>	242.37	
23 36 13 00-0018	EA		14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control	1,716.29	81.18
			<i>For Boxes With Motor, Add</i>	277.82	
23 36 13 00-0019	EA		16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control	1,805.67	90.98
			<i>For Boxes With Motor, Add</i>	288.11	
23 36 13 00-0020	EA		20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control	1,926.87	109.18
			<i>For Boxes With Motor, Add</i>	298.50	
23 36 13 00-0021	EA		24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control	2,047.32	125.98
			<i>For Boxes With Motor, Add</i>	308.69	

23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control (23 36 13 00-0011)

23 36 13 00-0023	EA		4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control	1,748.17	53.18
			<i>For Boxes With Motor, Add</i>	307.64	
23 36 13 00-0024	EA		6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control	1,871.12	57.39
			<i>For Boxes With Motor, Add</i>	328.41	
23 36 13 00-0025	EA		7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control	1,955.68	62.98
			<i>For Boxes With Motor, Add</i>	340.75	
23 36 13 00-0026	EA		9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control	2,037.56	65.79
			<i>For Boxes With Motor, Add</i>	355.02	
23 36 13 00-0027	EA		12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control	2,064.71	72.78
			<i>For Boxes With Motor, Add</i>	355.02	
23 36 13 00-0028	EA		14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control	2,371.68	82.58
			<i>For Boxes With Motor, Add</i>	408.89	
23 36 13 00-0029	EA		16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control	2,594.38	90.98
			<i>For Boxes With Motor, Add</i>	445.89	
23 36 13 00-0030	EA		20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control	2,803.38	109.18
			<i>For Boxes With Motor, Add</i>	473.80	
23 36 13 00-0031	EA		24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control	2,937.79	125.98
			<i>For Boxes With Motor, Add</i>	486.78	

23 36 16 Variable-Air-Volume Units (23 36)

23 36 16 00-0001 Variable Volume Terminal Unit (23 36 16)

Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.

23 36 16 00-0002 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)

Note: Enclosure only. For mounting DDC controls.

23 36 16 00-0003	EA		6" Diameter Inlet, 80 To 500 CFM, Variable Air Volume Box With Enclosure Only	582.34	64.39
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0004	EA		8" Diameter Inlet, 145 To 900 CFM, Variable Air Volume Box With Enclosure Only	652.70	72.78
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0005	EA		10" Diameter Inlet, 230 To 1,400 CFM, Variable Air Volume Box With Enclosure Only	727.64	81.18
			Note: For mounting DDC controls		
			<i>For Filters And Frames, Add</i>	6.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0006 EA 12" Diameter Inlet, 325 To 2,000 CFM, Variable Air Volume Box With Enclosure Only Note: For mounting DDC controls For Filters And Frames, Add	780.06 6.30	90.98
23 36 16 00-0007 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With Enclosure Only Note: For mounting DDC controls For Filters And Frames, Add	1,071.93 6.30	195.82
23 36 16 00-0008 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With Enclosure Only Note: For mounting DDC controls For Filters And Frames, Add	1,318.39 6.30	232.36
23 36 16 00-0009 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001) Note: With pneumatic controls.		
23 36 16 00-0010 EA 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,157.30 1,173.54 366.13 67.57 6.30	64.39
23 36 16 00-0011 EA 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,254.64 1,257.56 391.38 67.57 6.30	72.78
23 36 16 00-0012 EA 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,319.20 1,297.92 402.32 67.57 6.30	81.18
23 36 16 00-0013 EA 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,382.00 1,335.75 412.42 67.57 6.30	90.98
23 36 16 00-0014 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,617.83 1,502.16 459.56 67.57 6.30	195.82
23 36 16 00-0015 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller For Fan Powered Variable Air Volume Box, Add For Hot Water Coils, Add For Pressure Independent Actuator, Add For Filters And Frames, Add	1,909.96 1,636.16 490.70 67.57 6.30	232.36
23 36 16 00-0016 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001) Note: With analog electronic controls.		
23 36 16 00-0017 EA 6" Diameter Inlet, 60 To 500 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	1,873.40 656.51 6.30	64.39
23 36 16 00-0018 EA 8" Diameter Inlet, 105 To 900 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	1,954.13 675.02 6.30	72.78
23 36 16 00-0019 EA 10" Diameter Inlet, 165 To 1,400 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	2,029.08 690.18 6.30	81.18
23 36 16 00-0020 EA 12" Diameter Inlet, 235 To 2,000 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	2,131.31 716.27 6.30	90.98
23 36 16 00-0021 EA 14" Diameter Inlet, 320 To 3,000 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	2,369.21 764.24 6.30	195.82
23 36 16 00-0022 EA 16" Diameter Inlet, 420 To 4,000 CFM, Variable Air Volume Box With Analog Electronic Controls For Hot Water Coils, Add For Filters And Frames, Add	2,410.73 781.08 6.30	195.82
23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit (23 36 16 00-0001) Note: With flow control installation, plenum system power box, thermostat.		
23 36 16 00-0024 EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	1,302.69 6.30	127.23
23 36 16 00-0025 EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	1,427.11 6.30	144.87
23 36 16 00-0026 EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	1,531.64 6.30	163.63
23 36 16 00-0027 EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	1,681.09 6.30	182.52
23 36 16 00-0028 EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	1,892.00 6.30	209.95
23 36 16 00-0029 EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct For Filters And Frames, Add	2,087.49 6.30	251.95
23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) (23 36 16 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 36 Air Terminal Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0031 EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A) <i>For Filters And Frames, Add</i>	595.34 6.30	87.48
23 36 16 00-0032 EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B) <i>For Filters And Frames, Add</i>	647.51 6.30	96.23
23 36 16 00-0033 EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C) <i>For Filters And Frames, Add</i>	700.89 6.30	104.98
23 36 16 00-0034 EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D) <i>For Filters And Frames, Add</i>	755.54 6.30	113.72
23 36 16 00-0035 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E) <i>For Filters And Frames, Add</i>	811.59 6.30	122.47
23 36 16 00-0036 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F) <i>For Filters And Frames, Add</i>	869.10 6.30	131.23
23 36 16 00-0037 EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G) <i>For Filters And Frames, Add</i>	932.23 6.30	139.97
23 36 16 00-0038 EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H) <i>For Filters And Frames, Add</i>	993.29 6.30	148.72
23 36 16 00-0039 EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J) <i>For Filters And Frames, Add</i>	1,056.18 6.30	157.47
23 36 16 00-0040 EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K) <i>For Filters And Frames, Add</i>	1,121.01 6.30	166.21
23 36 16 00-0041 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L) <i>For Filters And Frames, Add</i>	1,187.93 6.30	174.97
23 36 16 00-0042 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) <i>For Filters And Frames, Add</i>	1,257.09 6.30	183.71
23 36 16 00-0043 EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N) <i>For Filters And Frames, Add</i>	1,328.65 6.30	192.46
23 36 16 00-0044 EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P) <i>For Filters And Frames, Add</i>	1,397.21 6.30	201.21
23 36 16 00-0045 EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R) <i>For Filters And Frames, Add</i>	1,473.67 6.30	209.95

23 37 Air Outlets and Inlets (23 30)

23 37 13 Diffusers, Registers, and Grilles (23 37)

23 37 13 13 Diffusers, Registers, and Grilles (23 37 13)

23 37 13 13-0001 Ceiling Diffusers (23 37 13 13)

23 37 13 13-0002 Ceiling Diffusers With Perforated Face (23 37 13 13-0001)

Note: Flush mount, aluminum construction, includes damper.

23 37 13 13-0003 EA 6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	120.34 -7.25 -5.80 -9.67 120.88	18.20
23 37 13 13-0004 EA 8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	131.08 -8.86 -7.09 -11.82 147.73	18.20
23 37 13 13-0005 EA 9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	131.08 -8.86 -7.09 -11.82 147.73	18.20
23 37 13 13-0006 EA 10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	157.60 -10.61 -8.49 -14.15 176.83	22.39
23 37 13 13-0007 EA 12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	157.60 -10.61 -8.49 -14.15 176.83	20.99
23 37 13 13-0008 EA 16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	177.30 -13.56 -10.85 -18.09 226.08	20.99
23 37 13 13-0009 EA 18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	206.30 -14.58 -11.67 -19.45 243.08	28.00
23 37 13 13-0010 EA 20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	235.92 -18.21 -14.57 -24.28 303.50	29.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0011 EA 24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	268.32	33.59
For Steel Construction, Deduct	-20.25	
For Surface Mount, Deduct	-16.20	
For Lay-In Mount, Deduct	-16.20	
For Diffuser Without Damper, Deduct	-27.00	
For Stainless Steel, Add	337.53	
23 37 13 13-0012 Ceiling Diffusers With Louver Face <small>(23 37 13 13-0001)</small>		
Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 13-0013 EA 6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	123.92	18.20
For Steel Construction, Deduct	-7.79	
For Flush Mount, Add	7.79	
For Stainless Steel, Add	129.83	
23 37 13 13-0014 EA 8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	137.88	18.20
For Steel Construction, Deduct	-9.88	
For Flush Mount, Add	9.88	
For Stainless Steel, Add	164.73	
23 37 13 13-0015 EA 9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	137.88	18.20
For Steel Construction, Deduct	-9.88	
For Flush Mount, Add	9.88	
For Stainless Steel, Add	164.73	
23 37 13 13-0016 EA 10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	165.66	20.99
For Steel Construction, Deduct	-11.82	
For Flush Mount, Add	11.82	
For Stainless Steel, Add	196.98	
23 37 13 13-0017 EA 12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	165.66	22.39
For Steel Construction, Deduct	-11.82	
For Flush Mount, Add	11.82	
For Stainless Steel, Add	196.98	
23 37 13 13-0018 EA 24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	212.68	28.00
For Steel Construction, Deduct	-15.47	
For Flush Mount, Add	15.47	
For Stainless Steel, Add	257.85	
23 37 13 13-0019 EA 14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	193.70	28.00
For Steel Construction, Deduct	-12.62	
For Flush Mount, Add	12.62	
For Stainless Steel, Add	210.40	
23 37 13 13-0020 EA 18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	240.57	33.59
For Steel Construction, Deduct	-16.20	
For Flush Mount, Add	16.20	
For Stainless Steel, Add	269.93	
23 37 13 13-0021 EA 21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	274.12	37.79
For Steel Construction, Deduct	-20.15	
For Flush Mount, Add	20.15	
For Stainless Steel, Add	335.75	
23 37 13 13-0022 EA 24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	298.08	74.05
For Steel Construction, Deduct	-22.48	
For Flush Mount, Add	22.48	
For Lay-In Mount, Add	29.97	
For Stainless Steel, Add	374.68	
23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern <small>(23 37 13 13-0001)</small>		
Note: Aluminum construction.		
23 37 13 13-0024 EA 6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	188.22	18.20
For Steel Construction, Deduct	-34.87	
For Stainless Steel, Add	290.58	
23 37 13 13-0025 EA 8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	194.18	18.20
For Steel Construction, Deduct	-36.66	
For Stainless Steel, Add	305.48	
23 37 13 13-0026 EA 10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	220.98	22.39
For Steel Construction, Deduct	-40.23	
For Stainless Steel, Add	335.28	
23 37 13 13-0027 EA 12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	235.88	20.99
For Steel Construction, Deduct	-44.70	
For Stainless Steel, Add	372.53	
23 37 13 13-0028 EA 14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	330.26	25.20
For Steel Construction, Deduct	-68.84	
For Stainless Steel, Add	573.70	
23 37 13 13-0029 EA 16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	347.87	26.60
For Steel Construction, Deduct	-72.87	
For Stainless Steel, Add	607.23	
23 37 13 13-0030 EA 18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	365.84	28.00
For Steel Construction, Deduct	-76.89	
For Stainless Steel, Add	640.75	
23 37 13 13-0031 EA 20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	419.17	28.00
For Steel Construction, Deduct	-91.40	
For Stainless Steel, Add	761.63	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0032 EA 24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	496.85	32.19
For Steel Construction, Deduct	-111.26	
For Stainless Steel, Add	927.18	
23 37 13 13-0033 EA 28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	556.46	33.59
For Steel Construction, Deduct	-127.16	
For Stainless Steel, Add	1,059.65	
23 37 13 13-0034 EA 32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction	661.47	37.79
For Steel Construction, Deduct	-153.98	
For Stainless Steel, Add	1,283.15	
23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style (23 37 13 13-0001)		
Note: Aluminum construction.		
23 37 13 13-0036 EA 6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	197.16	18.20
For Steel Construction, Deduct	-12.52	
For Flush Mount, Deduct	-6.26	
For Stainless Steel, Add	312.93	
23 37 13 13-0037 EA 8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	212.56	18.20
For Steel Construction, Deduct	-14.06	
For Flush Mount, Deduct	-7.03	
For Stainless Steel, Add	351.43	
23 37 13 13-0038 EA 10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	242.50	22.39
For Steel Construction, Deduct	-15.56	
For Flush Mount, Deduct	-7.78	
For Stainless Steel, Add	389.08	
23 37 13 13-0039 EA 12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	259.72	22.39
For Steel Construction, Deduct	-17.29	
For Flush Mount, Deduct	-8.64	
For Stainless Steel, Add	432.13	
23 37 13 13-0040 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	369.00	25.20
For Steel Construction, Deduct	-26.82	
For Flush Mount, Deduct	-13.41	
For Stainless Steel, Add	670.55	
23 37 13 13-0041 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	297.10	26.60
For Steel Construction, Deduct	-28.66	
For Flush Mount, Deduct	-14.33	
For Stainless Steel, Add	716.50	
23 37 13 13-0042 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	414.52	28.00
For Steel Construction, Deduct	-30.50	
For Flush Mount, Deduct	-15.25	
For Stainless Steel, Add	762.45	
23 37 13 13-0043 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	477.12	29.39
For Steel Construction, Deduct	-36.26	
For Flush Mount, Deduct	-18.13	
For Stainless Steel, Add	906.50	
23 37 13 13-0044 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	537.91	32.19
For Steel Construction, Deduct	-41.19	
For Flush Mount, Deduct	-20.60	
For Stainless Steel, Add	1,029.83	
23 37 13 13-0045 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	645.86	33.59
For Steel Construction, Deduct	-51.33	
For Flush Mount, Deduct	-25.66	
For Stainless Steel, Add	1,283.15	
23 37 13 13-0046 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	774.39	37.79
For Steel Construction, Deduct	-62.62	
For Flush Mount, Deduct	-31.31	
For Stainless Steel, Add	1,565.45	
23 37 13 13-0047 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	855.85	78.81
For Stainless Steel, Add	1,745.95	
23 37 13 13-0048 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 13-0001)		
23 37 13 13-0049 LF 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....	159.20	20.99
For Stainless Steel, Add	188.03	
23 37 13 13-0050 LF 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection.....	169.42	20.99
For Stainless Steel, Add	213.58	
23 37 13 13-0051 LF 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection.....	182.01	20.99
For Stainless Steel, Add	245.05	
23 37 13 13-0052 LF 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection.....	194.26	20.99
For Stainless Steel, Add	275.68	
23 37 13 13-0053 Wall And Floor Diffusers (23 37 13 13)		
23 37 13 13-0054 Slot Type Linear Diffusers (23 37 13 13-0053)		
Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.		
23 37 13 13-0055 LF 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	54.23	7.00
For 3/4" Border, Add	6.21	
For Floor Mounted Diffusers, Add	7.45	
For Stainless Steel, Add	32.29	
23 37 13 13-0056 LF 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....	65.29	8.40
For 3/4" Border, Add	8.28	
For Floor Mounted Diffusers, Add	9.93	
For Stainless Steel, Add	43.04	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0057	LF	3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....	88.56	9.80	
		<i>For 3/4" Border, Add</i>	13.04		
		<i>For Floor Mounted Diffusers, Add</i>	15.65		
		<i>For Stainless Steel, Add</i>	67.80		
23 37 13 13-0058	LF	4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....	115.08	9.80	
		<i>For 3/4" Border, Add</i>	18.63		
		<i>For Floor Mounted Diffusers, Add</i>	22.35		
		<i>For Stainless Steel, Add</i>	96.86		
23 37 13 13-0059	LF	5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....	143.09	11.20	
		<i>For 3/4" Border, Add</i>	24.22		
		<i>For Floor Mounted Diffusers, Add</i>	29.06		
		<i>For Stainless Steel, Add</i>	125.92		
23 37 13 13-0060	LF	6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....	167.39	13.99	
		<i>For 3/4" Border, Add</i>	28.56		
		<i>For Floor Mounted Diffusers, Add</i>	34.27		
		<i>For Stainless Steel, Add</i>	148.51		
23 37 13 13-0061		Linear Bar Grilles And Registers (23 37 13 13-0063)			
		Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.			
23 37 13 13-0062	LF	2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	152.22	8.40	
		<i>For Floor Mount, Add</i>	12.00		
		<i>For Opposed Blade Damper, Add</i>	24.01		
		<i>For Stainless Steel, Add</i>	156.05		
23 37 13 13-0063	LF	3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....	181.28	9.80	
		<i>For Floor Mount, Add</i>	14.49		
		<i>For Opposed Blade Damper, Add</i>	28.97		
		<i>For Stainless Steel, Add</i>	188.33		
23 37 13 13-0064	LF	4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....	197.86	9.80	
		<i>For Floor Mount, Add</i>	15.73		
		<i>For Opposed Blade Damper, Add</i>	31.46		
		<i>For Stainless Steel, Add</i>	204.48		
23 37 13 13-0065	LF	6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....	243.55	13.99	
		<i>For Floor Mount, Add</i>	19.04		
		<i>For Opposed Blade Damper, Add</i>	38.08		
		<i>For Stainless Steel, Add</i>	247.52		
23 37 13 13-0066	LF	9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....	336.28	18.20	
		<i>For Floor Mount, Add</i>	26.49		
		<i>For Opposed Blade Damper, Add</i>	52.98		
		<i>For Stainless Steel, Add</i>	344.38		
23 37 13 13-0067	LF	12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....	389.03	20.99	
		<i>For Floor Mount, Add</i>	30.22		
		<i>For Opposed Blade Damper, Add</i>	60.43		
		<i>For Stainless Steel, Add</i>	392.81		
23 37 13 13-0068		Return/Exhaust Registers And Grilles (23 37 13 13)			
23 37 13 13-0069		Return/Exhaust Registers With Frame (23 37 13 13-0068)			
		Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.			
23 37 13 13-0070	EA	8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	110.08	11.20	
		<i>For Steel Construction, Deduct</i>	-13.33		
		<i>For Grilles (No Damper), Deduct</i>	-26.66		
		<i>For Removable Core, Add</i>	35.00		
		<i>For Cube Core With Frame, Add</i>	6.66		
		<i>For Cube Core Lay In, Add</i>	13.33		
		<i>For Stainless Steel, Add</i>	166.60		
23 37 13 13-0071	EA	8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	124.57	11.20	
		<i>For Steel Construction, Deduct</i>	-16.23		
		<i>For Grilles (No Damper), Deduct</i>	-32.45		
		<i>For Removable Core, Add</i>	35.00		
		<i>For Cube Core With Frame, Add</i>	8.11		
		<i>For Cube Core Lay In, Add</i>	16.23		
		<i>For Stainless Steel, Add</i>	202.83		
23 37 13 13-0072	EA	10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	140.21	12.59	
		<i>For Steel Construction, Deduct</i>	-17.96		
		<i>For Grilles (No Damper), Deduct</i>	-35.93		
		<i>For Removable Core, Add</i>	35.00		
		<i>For Cube Core With Frame, Add</i>	8.98		
		<i>For Cube Core Lay In, Add</i>	17.96		
		<i>For Stainless Steel, Add</i>	224.55		
23 37 13 13-0073	EA	10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	148.42	13.99	
		<i>For Steel Construction, Deduct</i>	-17.96		
		<i>For Grilles (No Damper), Deduct</i>	-35.93		
		<i>For Removable Core, Add</i>	35.00		
		<i>For Cube Core With Frame, Add</i>	8.98		
		<i>For Cube Core Lay In, Add</i>	17.96		
		<i>For Stainless Steel, Add</i>	224.55		
23 37 13 13-0074	EA	12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	142.63	13.99	
		<i>For Steel Construction, Deduct</i>	-16.81		
		<i>For Grilles (No Damper), Deduct</i>	-33.61		
		<i>For Removable Core, Add</i>	35.00		
		<i>For Cube Core With Frame, Add</i>	8.40		
		<i>For Cube Core Lay In, Add</i>	16.81		
		<i>For Stainless Steel, Add</i>	210.08		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0075 EA 12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	182.09	18.20
For Steel Construction, Deduct	-22.02	
For Grilles (No Damper), Deduct	-44.04	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	11.01	
For Cube Core Lay In, Add	22.02	
For Stainless Steel, Add	275.25	
23 37 13 13-0076 EA 16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	218.33	20.99
For Steel Construction, Deduct	-26.29	
For Grilles (No Damper), Deduct	-52.58	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	13.15	
For Cube Core Lay In, Add	26.29	
For Stainless Steel, Add	328.65	
23 37 13 13-0077 EA 18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	265.93	25.20
For Steel Construction, Deduct	-33.03	
For Grilles (No Damper), Deduct	-66.06	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	16.52	
For Cube Core Lay In, Add	33.03	
For Stainless Steel, Add	412.88	
23 37 13 13-0078 EA 20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	309.54	28.00
For Steel Construction, Deduct	-40.00	
For Grilles (No Damper), Deduct	-80.00	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	20.00	
For Cube Core Lay In, Add	40.00	
For Stainless Steel, Add	500.00	
23 37 13 13-0079 EA 24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	281.80	28.00
For Steel Construction, Deduct	-33.46	
For Grilles (No Damper), Deduct	-66.91	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	16.73	
For Cube Core Lay In, Add	33.46	
For Stainless Steel, Add	418.20	
23 37 13 13-0080 EA 24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	317.34	28.00
For Steel Construction, Deduct	-40.56	
For Grilles (No Damper), Deduct	-81.13	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	20.28	
For Cube Core Lay In, Add	40.56	
For Stainless Steel, Add	507.05	
23 37 13 13-0081 EA 24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	336.19	32.19
For Steel Construction, Deduct	-42.04	
For Grilles (No Damper), Deduct	-84.08	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	21.02	
For Cube Core Lay In, Add	42.04	
For Stainless Steel, Add	525.53	
23 37 13 13-0082 EA 30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	356.00	33.59
For Steel Construction, Deduct	-44.68	
For Grilles (No Damper), Deduct	-89.36	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	22.34	
For Cube Core Lay In, Add	44.68	
For Stainless Steel, Add	558.50	
23 37 13 13-0083 EA 30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	408.97	37.79
For Steel Construction, Deduct	-52.15	
For Grilles (No Damper), Deduct	-104.30	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	26.08	
For Cube Core Lay In, Add	52.15	
For Stainless Steel, Add	651.90	
23 37 13 13-0084 EA 30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	462.16	44.80
For Steel Construction, Deduct	-56.44	
For Grilles (No Damper), Deduct	-112.88	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	28.22	
For Cube Core Lay In, Add	56.44	
For Stainless Steel, Add	705.48	
23 37 13 13-0085 EA 30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	584.85	44.80
For Steel Construction, Deduct	-80.98	
For Grilles (No Damper), Deduct	-161.95	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	40.49	
For Cube Core Lay In, Add	80.98	
For Stainless Steel, Add	1,012.20	
23 37 13 13-0086 EA 36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	498.66	48.99
For Steel Construction, Deduct	-60.97	
For Grilles (No Damper), Deduct	-121.94	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	30.49	
For Cube Core Lay In, Add	60.97	
For Stainless Steel, Add	762.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	487.00	47.59
<i>For Steel Construction, Deduct</i>	-58.64	
<i>For Grilles (No Damper), Deduct</i>	-117.28	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	29.32	
<i>For Cube Core Lay In, Add</i>	58.64	
<i>For Stainless Steel, Add</i>	732.98	
23 37 13 13-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	551.40	53.18
<i>For Steel Construction, Deduct</i>	-68.29	
<i>For Grilles (No Damper), Deduct</i>	-136.58	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	34.15	
<i>For Cube Core Lay In, Add</i>	68.29	
<i>For Stainless Steel, Add</i>	853.63	
23 37 13 13-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	731.58	57.39
<i>For Steel Construction, Deduct</i>	-100.51	
<i>For Grilles (No Damper), Deduct</i>	-201.01	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	50.25	
<i>For Cube Core Lay In, Add</i>	100.51	
<i>For Stainless Steel, Add</i>	1,256.33	
23 37 13 13-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	332.49	32.33
<i>For Steel Construction, Deduct</i>	-40.66	
<i>For Grilles (No Damper), Deduct</i>	-81.33	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	20.33	
<i>For Cube Core Lay In, Add</i>	40.66	
<i>For Stainless Steel, Add</i>	508.30	
23 37 13 13-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	600.46	57.25
<i>For Steel Construction, Deduct</i>	-74.28	
<i>For Grilles (No Damper), Deduct</i>	-148.56	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	37.14	
<i>For Cube Core Lay In, Add</i>	74.28	
<i>For Stainless Steel, Add</i>	928.53	
23 37 13 13-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	636.14	55.99
<i>For Steel Construction, Deduct</i>	-85.24	
<i>For Grilles (No Damper), Deduct</i>	-170.48	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	42.62	
<i>For Cube Core Lay In, Add</i>	85.24	
<i>For Stainless Steel, Add</i>	1,065.48	
23 37 13 13-0093 Return/Exhaust Registers Removable-Reversible <small>(23 37 13 13-0068)</small>		
<i>Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.</i>		
23 37 13 13-0094 EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	102.55	11.20
<i>For Steel Construction, Deduct</i>	-5.91	
<i>For Flat Frame, Deduct</i>	-0.59	
<i>For Grilles (No Damper), Deduct</i>	-11.82	
<i>For Stainless Steel, Add</i>	147.78	
23 37 13 13-0095 EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	102.55	11.20
<i>For Steel Construction, Deduct</i>	-5.91	
<i>For Flat Frame, Deduct</i>	-0.59	
<i>For Grilles (No Damper), Deduct</i>	-11.82	
<i>For Stainless Steel, Add</i>	147.78	
23 37 13 13-0096 EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	125.14	12.59
<i>For Steel Construction, Deduct</i>	-7.48	
<i>For Flat Frame, Deduct</i>	-0.75	
<i>For Grilles (No Damper), Deduct</i>	-14.95	
<i>For Stainless Steel, Add</i>	186.88	
23 37 13 13-0097 EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	143.78	15.40
<i>For Steel Construction, Deduct</i>	-8.52	
<i>For Flat Frame, Deduct</i>	-0.85	
<i>For Grilles (No Damper), Deduct</i>	-17.04	
<i>For Stainless Steel, Add</i>	212.95	
23 37 13 13-0098 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	142.05	13.99
<i>For Steel Construction, Deduct</i>	-8.35	
<i>For Flat Frame, Deduct</i>	-0.83	
<i>For Grilles (No Damper), Deduct</i>	-16.69	
<i>For Stainless Steel, Add</i>	208.63	
23 37 13 13-0099 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	183.25	18.20
<i>For Steel Construction, Deduct</i>	-11.13	
<i>For Flat Frame, Deduct</i>	-1.11	
<i>For Grilles (No Damper), Deduct</i>	-22.25	
<i>For Stainless Steel, Add</i>	278.15	
23 37 13 13-0100 EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	287.95	22.39
<i>For Steel Construction, Deduct</i>	-20.11	
<i>For Flat Frame, Deduct</i>	-2.01	
<i>For Grilles (No Damper), Deduct</i>	-40.22	
<i>For Stainless Steel, Add</i>	502.70	
23 37 13 13-0101 EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	345.90	25.20
<i>For Steel Construction, Deduct</i>	-24.51	
<i>For Flat Frame, Deduct</i>	-2.45	
<i>For Grilles (No Damper), Deduct</i>	-49.02	
<i>For Stainless Steel, Add</i>	612.80	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0102 EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	389.43	28.00
For Steel Construction, Deduct	-27.99	
For Flat Frame, Deduct	-2.80	
For Grilles (No Damper), Deduct	-55.98	
For Stainless Steel, Add	699.73	
23 37 13 13-0103 EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	330.09	28.00
For Steel Construction, Deduct	-21.56	
For Flat Frame, Deduct	-2.16	
For Grilles (No Damper), Deduct	-43.11	
For Stainless Steel, Add	538.93	
23 37 13 13-0104 EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	434.40	29.39
For Steel Construction, Deduct	-31.99	
For Flat Frame, Deduct	-3.20	
For Grilles (No Damper), Deduct	-63.98	
For Stainless Steel, Add	799.70	
23 37 13 13-0105 EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	504.97	32.19
For Steel Construction, Deduct	-37.90	
For Flat Frame, Deduct	-3.79	
For Grilles (No Damper), Deduct	-75.80	
For Stainless Steel, Add	947.48	
23 37 13 13-0106 EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	396.85	33.59
For Steel Construction, Deduct	-26.43	
For Flat Frame, Deduct	-2.64	
For Grilles (No Damper), Deduct	-52.85	
For Stainless Steel, Add	660.63	
23 37 13 13-0107 EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	537.63	37.79
For Steel Construction, Deduct	-38.94	
For Flat Frame, Deduct	-3.89	
For Grilles (No Damper), Deduct	-77.88	
For Stainless Steel, Add	973.55	
23 37 13 13-0108 EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	647.62	44.80
For Steel Construction, Deduct	-46.77	
For Flat Frame, Deduct	-4.68	
For Grilles (No Damper), Deduct	-93.53	
For Stainless Steel, Add	1,169.13	
23 37 13 13-0109 EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	735.41	44.80
For Steel Construction, Deduct	-55.54	
For Flat Frame, Deduct	-5.55	
For Grilles (No Damper), Deduct	-111.09	
For Stainless Steel, Add	1,388.60	
23 37 13 13-0110 EA 36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	518.90	47.59
For Steel Construction, Deduct	-32.51	
For Flat Frame, Deduct	-3.25	
For Grilles (No Damper), Deduct	-65.02	
For Stainless Steel, Add	812.73	
23 37 13 13-0111 EA 36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	685.80	47.59
For Steel Construction, Deduct	-49.20	
For Flat Frame, Deduct	-4.92	
For Grilles (No Damper), Deduct	-98.40	
For Stainless Steel, Add	1,229.98	
23 37 13 13-0112 EA 36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	790.60	53.18
For Steel Construction, Deduct	-58.07	
For Flat Frame, Deduct	-5.81	
For Grilles (No Damper), Deduct	-116.13	
For Stainless Steel, Add	1,451.63	
23 37 13 13-0113 EA 36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	920.09	57.39
For Steel Construction, Deduct	-69.10	
For Flat Frame, Deduct	-6.91	
For Grilles (No Damper), Deduct	-138.21	
For Stainless Steel, Add	1,727.60	
23 37 13 13-0114 EA 36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	968.77	57.39
For Steel Construction, Deduct	-73.97	
For Flat Frame, Deduct	-7.40	
For Grilles (No Damper), Deduct	-147.94	
For Stainless Steel, Add	1,849.30	
23 37 13 13-0115 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 13-0068)		
23 37 13 13-0116 EA 6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.92	13.69
23 37 13 13-0117 EA 8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.92	13.69
23 37 13 13-0118 EA 8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.15	13.69
23 37 13 13-0119 EA 8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.84	13.69
23 37 13 13-0120 EA 10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	64.15	13.69
23 37 13 13-0121 EA 10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.84	13.69
23 37 13 13-0122 EA 10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	80.44	17.94
23 37 13 13-0123 EA 10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.14	17.94
23 37 13 13-0124 EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	78.75	17.94
23 37 13 13-0125 EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.14	17.94
23 37 13 13-0126 EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	83.83	17.94
23 37 13 13-0127 EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	85.52	17.94
23 37 13 13-0128 EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.98	17.94
23 37 13 13-0129 EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	86.37	17.94
23 37 13 13-0130 EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	88.06	17.94
23 37 13 13-0131 EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.68	17.94
23 37 13 13-0132 EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	86.37	17.94



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
23 37 13 13-0133 EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	92.29	17.94
23 37 13 13-0134 EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.68	17.94
23 37 13 13-0135 EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	125.72	26.45
23 37 13 13-0136 EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	127.41	26.45
23 37 13 13-0137 EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	124.02	26.45
23 37 13 13-0138 EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	150.46	30.71
23 37 13 13-0139 EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	122.33	26.45
23 37 13 13-0140 EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	158.93	30.71
23 37 13 13-0141 EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	84.67	17.94
23 37 13 13-0142 EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	124.02	26.45
23 37 13 13-0143 EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	178.61	34.98
23 37 13 13-0144 EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	122.33	26.45
23 37 13 13-0145 EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	125.72	26.45
23 37 13 13-0146 EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	145.39	30.71
<i>For Lay-In Installation, Deduct</i>	-64.76	
23 37 13 13-0147 EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	150.46	30.71
23 37 13 13-0148 EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	168.45	34.98
23 37 13 13-0149 EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	173.53	34.98
23 37 13 13-0150 EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	179.45	34.98
23 37 13 13-0151 EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	190.45	34.98
<i>For Lay-In Installation, Deduct</i>	-74.14	
23 37 13 13-0152 EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	147.93	30.71
23 37 13 13-0153 EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	230.39	38.33
23 37 13 13-0154 EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	378.91	46.85
<i>For Lay-In Installation, Deduct</i>	-106.70	
23 37 13 13-0155 Supply Registers and Grilles <small>(23 37 13 13)</small>		
23 37 13 13-0156 Adjustable Curved Blade Register <small>(23 37 13 13-0155)</small>		
<i>Note: Ceiling mount aluminum construction four way pattern flush frame.</i>		
23 37 13 13-0157 EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	94.03	11.20
<i>For Steel Construction, Deduct</i>	-7.60	
<i>For Lay In Frame, Deduct</i>	-12.67	
<i>For Three Way Pattern, Deduct</i>	-5.07	
<i>For Two Way Pattern, Deduct</i>	-4.05	
<i>For One Way Pattern, Deduct</i>	-4.05	
<i>For Grille (No Damper), Deduct</i>	-7.60	
<i>For Stainless Steel, Add</i>	126.65	
23 37 13 13-0158 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	97.01	11.20
<i>For Steel Construction, Deduct</i>	-8.05	
<i>For Lay In Frame, Deduct</i>	-13.41	
<i>For Three Way Pattern, Deduct</i>	-5.36	
<i>For Two Way Pattern, Deduct</i>	-4.29	
<i>For One Way Pattern, Deduct</i>	-4.29	
<i>For Grille (No Damper), Deduct</i>	-8.05	
<i>For Stainless Steel, Add</i>	134.10	
23 37 13 13-0159 EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	109.39	15.40
<i>For Steel Construction, Deduct</i>	-7.60	
<i>For Lay In Frame, Deduct</i>	-12.67	
<i>For Three Way Pattern, Deduct</i>	-5.07	
<i>For Two Way Pattern, Deduct</i>	-4.05	
<i>For One Way Pattern, Deduct</i>	-4.05	
<i>For Grille (No Damper), Deduct</i>	-7.60	
<i>For Stainless Steel, Add</i>	126.65	
23 37 13 13-0160 EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	120.32	13.99
<i>For Steel Construction, Deduct</i>	-9.24	
<i>For Lay In Frame, Deduct</i>	-15.40	
<i>For Three Way Pattern, Deduct</i>	-6.16	
<i>For Two Way Pattern, Deduct</i>	-4.93	
<i>For One Way Pattern, Deduct</i>	-4.93	
<i>For Grille (No Damper), Deduct</i>	-9.24	
<i>For Stainless Steel, Add</i>	153.98	
23 37 13 13-0161 EA 12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	144.88	18.20
<i>For Steel Construction, Deduct</i>	-11.03	
<i>For Lay In Frame, Deduct</i>	-18.38	
<i>For Three Way Pattern, Deduct</i>	-7.35	
<i>For Two Way Pattern, Deduct</i>	-5.88	
<i>For One Way Pattern, Deduct</i>	-5.88	
<i>For Grille (No Damper), Deduct</i>	-11.03	
<i>For Stainless Steel, Add</i>	183.78	
23 37 13 13-0162 EA 14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	178.26	20.99
<i>For Steel Construction, Deduct</i>	-13.71	
<i>For Lay In Frame, Deduct</i>	-22.85	
<i>For Three Way Pattern, Deduct</i>	-9.14	
<i>For Two Way Pattern, Deduct</i>	-7.31	
<i>For One Way Pattern, Deduct</i>	-7.31	
<i>For Grille (No Damper), Deduct</i>	-13.71	
<i>For Stainless Steel, Add</i>	228.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0163 EA 16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	178.26	20.99
For Steel Construction, Deduct	-13.71	
For Lay In Frame, Deduct	-22.85	
For Three Way Pattern, Deduct	-9.14	
For Two Way Pattern, Deduct	-7.31	
For One Way Pattern, Deduct	-7.31	
For Grille (No Damper), Deduct	-13.71	
For Stainless Steel, Add	228.48	
23 37 13 13-0164 EA 18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	220.33	28.00
For Steel Construction, Deduct	-16.69	
For Lay In Frame, Deduct	-27.82	
For Three Way Pattern, Deduct	-11.13	
For Two Way Pattern, Deduct	-8.90	
For One Way Pattern, Deduct	-8.90	
For Grille (No Damper), Deduct	-16.69	
For Stainless Steel, Add	278.15	
23 37 13 13-0165 EA 24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	282.41	29.39
For Steel Construction, Deduct	-25.18	
For Lay In Frame, Deduct	-41.97	
For Three Way Pattern, Deduct	-16.79	
For Two Way Pattern, Deduct	-13.43	
For One Way Pattern, Deduct	-13.43	
For Grille (No Damper), Deduct	-25.18	
For Stainless Steel, Add	419.73	
23 37 13 13-0166 EA 30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	441.07	59.35
For Steel Construction, Deduct	-48.35	
For Lay In Frame, Deduct	-80.59	
For Three Way Pattern, Deduct	-32.24	
For Two Way Pattern, Deduct	-25.79	
For One Way Pattern, Deduct	-25.79	
For Grille (No Damper), Deduct	-48.35	
For Stainless Steel, Add	805.90	
23 37 13 13-0167 Removable-Reversible Core Registers <small>(23 37 13 13-0155)</small>		
Note: Double deflection radiused frame aluminum construction.		
23 37 13 13-0168 EA 6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	106.95	11.20
For Steel Construction, Deduct	-6.36	
For Flat Frame, Deduct	-6.36	
For Grille (No Damper), Deduct	-19.07	
For Stainless Steel, Add	158.95	
23 37 13 13-0169 EA 8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	132.78	11.20
For Steel Construction, Deduct	-8.94	
For Flat Frame, Deduct	-8.94	
For Grille (No Damper), Deduct	-26.82	
For Stainless Steel, Add	223.53	
23 37 13 13-0170 EA 12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	169.99	15.40
For Steel Construction, Deduct	-11.13	
For Flat Frame, Deduct	-11.13	
For Grille (No Damper), Deduct	-33.38	
For Stainless Steel, Add	278.15	
23 37 13 13-0171 EA 10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	171.98	15.40
For Steel Construction, Deduct	-11.33	
For Flat Frame, Deduct	-11.33	
For Grille (No Damper), Deduct	-33.98	
For Stainless Steel, Add	283.13	
23 37 13 13-0172 EA 12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	218.40	18.20
For Steel Construction, Deduct	-14.70	
For Flat Frame, Deduct	-14.70	
For Grille (No Damper), Deduct	-44.11	
For Stainless Steel, Add	367.58	
23 37 13 13-0173 EA 14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	307.41	22.39
For Steel Construction, Deduct	-22.05	
For Flat Frame, Deduct	-22.05	
For Grille (No Damper), Deduct	-66.16	
For Stainless Steel, Add	551.35	
23 37 13 13-0174 EA 16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	343.17	20.99
For Steel Construction, Deduct	-25.63	
For Flat Frame, Deduct	-25.63	
For Grille (No Damper), Deduct	-76.89	
For Stainless Steel, Add	640.75	
23 37 13 13-0175 EA 18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	415.04	28.00
For Steel Construction, Deduct	-30.60	
For Flat Frame, Deduct	-30.60	
For Grille (No Damper), Deduct	-91.79	
For Stainless Steel, Add	764.93	
23 37 13 13-0176 EA 24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	517.84	28.00
For Steel Construction, Deduct	-40.33	
For Flat Frame, Deduct	-40.33	
For Grille (No Damper), Deduct	-121.00	
For Stainless Steel, Add	1,008.30	

23 37 13 13-0177 Adjustable Shutter Blade Registers (23 37 13 13-0155)

Note: Double deflection flat frame aluminum construction.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0178 EA 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	159.27 -11.59 -23.18 -17.39 289.75	11.20
23 37 13 13-0179 EA 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	182.45 -13.91 -27.82 -20.86 347.70	11.20
23 37 13 13-0180 EA 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	197.81 -13.91 -27.82 -20.86 347.70	15.40
23 37 13 13-0181 EA 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	204.43 -14.57 -29.14 -21.86 364.25	13.99
23 37 13 13-0182 EA 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	250.18 -17.88 -35.76 -26.82 447.03	18.20
23 37 13 13-0183 EA 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	331.91 -24.50 -49.01 -36.76 612.60	20.99
23 37 13 13-0184 EA 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	388.20 -30.13 -60.27 -45.20 753.33	22.39
23 37 13 13-0185 EA 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	479.94 -37.09 -74.17 -55.63 927.18	28.00
23 37 13 13-0186 EA 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame <i>For Steel Construction, Deduct</i> <i>For Single Deflection, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	654.27 -53.98 -107.95 -80.96 1,349.38	29.39
23 37 13 13-0187 Air Conditioning And Ventilation (23 37 13 13-0155)		
23 37 13 13-0188 EA 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction <i>For Stainless Steel, Add</i>	89.77 77.60	29.39
23 37 13 13-0189 EA 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction <i>For Stainless Steel, Add</i>	149.57 155.23	43.74
23 37 13 13-0190 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction <i>For Stainless Steel, Add</i>	225.95 258.70	61.24
23 37 13 13-0191 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction <i>For Stainless Steel, Add</i>	509.43 853.68	83.99
23 37 13 13-0192 Square Wall Return Air And Exhaust Grilles (23 37 13 13-0155) Note: Egg crate design aluminum construction.		
23 37 13 13-0193 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	88.74	35.04
23 37 13 13-0194 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	94.48	35.04
23 37 13 13-0195 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	140.99	52.56
23 37 13 13-0196 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	169.69	52.56
23 37 13 13-0197 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	269.31	70.08
23 37 13 13-0198 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	442.64	69.98
23 37 13 13-0199 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles (23 37 13 13-0155) Note: Aluminum construction.		
23 37 13 13-0200 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	237.78	25.23
23 37 13 13-0201 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	267.58	25.23
23 37 13 13-0202 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	320.74	28.03
23 37 13 13-0203 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	373.69	28.03
23 37 13 13-0204 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction.....	488.57	87.60
23 37 13 13-0205 Square Ceiling Return Air And Exhaust Grilles (23 37 13 13-0155) Note: Egg crate design, plastic construction.		
23 37 13 13-0206 EA 24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	49.53	16.77
23 37 13 13-0207 EA 24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	69.31	16.91

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 37 13 13-0208		Door Grilles Sight Proof Inverted Vee Cross Section (23 37 13 13-0155) Note: Painted steel louvers and frame.		
23 37 13 13-0209	EA	12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	135.34	25.23
23 37 13 13-0210	EA	12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	174.86	25.23
23 37 13 13-0211	EA	18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	211.29	26.63
23 37 13 13-0212	EA	24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	280.83	31.82
23 37 13 13-0213	EA	24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel	313.78	58.45
23 37 13 13-0214		Stainless Steel Devices (23 37 13 13-0155)		
23 37 13 13-0215		304 Stainless Steel, Louvered Partition/Door Grilles (23 37 13 13-0214)		
23 37 13 13-0216	SF	Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille..... <i>For 316 Stainless Steel, Add</i>	178.78 28.47	21.86
23 37 13 13-0217	SF	>4 SF, 304 Stainless Steel, Louvered Partition/Door Grille..... <i>For 316 Stainless Steel, Add</i>	152.81 23.27	21.86
23 37 13 13-0218		304 Stainless Steel, Single Deflection Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0219	SF	Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille..... <i>For 316 Stainless Steel, Add</i>	138.41 20.39	21.86
23 37 13 13-0220	SF	>4 SF, 304 Stainless Steel, Single Deflection Supply Grille..... <i>For 316 Stainless Steel, Add</i>	119.52 16.62	21.86
23 37 13 13-0221		304 Stainless Steel, Double Deflection Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0222	SF	Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille	196.84	21.86
		<i>For 316 Stainless Steel, Add</i>	32.08	
23 37 13 13-0223	SF	>4 SF, 304 Stainless Steel, Double Deflection Supply Grille	169.57	21.86
		<i>For 316 Stainless Steel, Add</i>	26.63	
23 37 13 13-0224		304 Stainless Steel Return Grilles (23 37 13 13-0214)		
23 37 13 13-0225	SF	Up To 4 SF, 304 Stainless Steel Return Grille..... <i>For 316 Stainless Steel, Add</i>	138.41 20.39	21.86
23 37 13 13-0226	SF	>4 SF, 304 Stainless Steel Return Grille..... <i>For 316 Stainless Steel, Add</i>	119.52 16.62	21.86
23 37 13 13-0227		304 Stainless Steel, Louvered Supply/Return Grilles (23 37 13 13-0214)		
23 37 13 13-0228	SF	Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille..... <i>For 316 Stainless Steel, Add</i>	138.41 20.39	21.86
23 37 13 13-0229	SF	>4 SF, 304 Stainless Steel, Louvered Supply/Return Grille..... <i>For 316 Stainless Steel, Add</i>	119.52 16.62	21.86
23 37 13 13-0230		304 Stainless Steel, Perforated Return Grilles (23 37 13 13-0214)		
23 37 13 13-0231	SF	Up To 4 SF, 304 Stainless Steel, Perforated Return Grille..... <i>For 316 Stainless Steel, Add</i>	138.41 20.39	21.86
23 37 13 13-0232	SF	>4 SF, 304 Stainless Steel, Perforated Return Grille..... <i>For 316 Stainless Steel, Add</i>	114.34 15.58	21.86
23 37 13 13-0233		304 Stainless Steel, Perforated Supply Grilles (23 37 13 13-0214)		
23 37 13 13-0234	SF	Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille..... <i>For 316 Stainless Steel, Add</i>	164.97 25.71	21.86
23 37 13 13-0235	SF	>4 SF, 304 Stainless Steel, Perforated Supply Grille..... <i>For 316 Stainless Steel, Add</i>	117.10 16.13	21.86
23 37 13 13-0236		304 Stainless Steel, Door Grilles (23 37 13 13-0214)		
23 37 13 13-0237	SF	Up To 4 SF, 304 Stainless Steel, Door Grille..... <i>For 316 Stainless Steel, Add</i>	240.39 40.79	21.86
23 37 13 13-0238	SF	>4 SF, 304 Stainless Steel, Door Grille..... <i>For 316 Stainless Steel, Add</i>	202.63 33.24	21.86
23 37 13 13-0239		304 Stainless Steel, Linear Bar Grilles (23 37 13 13-0214)		
23 37 13 13-0240	SF	Up To 4 SF, 304 Stainless Steel, Linear Bar Grille..... <i>For 316 Stainless Steel, Add</i>	303.77 53.47	21.86
23 37 13 13-0241	SF	>4 SF, 304 Stainless Steel, Linear Bar Grille..... <i>For 316 Stainless Steel, Add</i>	261.86 45.08	21.86
23 37 13 13-0242		304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0214)		
23 37 13 13-0243	SF	Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille	226.58	21.86
		<i>For 316 Stainless Steel, Add</i>	38.03	
23 37 13 13-0244	SF	>4 SF, 304 Stainless Steel, Hinged Filter Grille	160.49	21.86
		<i>For 316 Stainless Steel, Add</i>	24.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0245 304 Stainless Steel, Opposed Blade Dampers Grilles <small>(23 37 13 13-0214)</small>		
23 37 13 13-0246 SF Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille <i>For 316 Stainless Steel, Add</i>	127.79 18.27	21.86
23 37 13 13-0247 SF Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF <i>For 316 Stainless Steel, Add</i>	100.30 12.77	21.86
23 37 13 13-0248 304 Stainless Steel, Plaster Frames Replacement <small>(23 37 13 13-0214)</small>		
Note: For frequent replacement.		
23 37 13 13-0249 SF To 4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	102.30 13.17	21.86
23 37 13 13-0250 SF >4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	60.16 4.74	21.86
23 37 13 13-0251 304 Stainless Steel, Modular Louvered Ceiling Diffusers <small>(23 37 13 13-0214)</small>		
23 37 13 13-0252 SF Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser <i>For 316 Stainless Steel, Add</i>	223.39 37.39	21.86
23 37 13 13-0253 SF >4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser <i>For 316 Stainless Steel, Add</i>	177.49 28.21	21.86
23 37 13 13-0254 304 Stainless Steel, Latticed Supply/Return Grilles <small>(23 37 13 13-0214)</small>		
23 37 13 13-0255 SF Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille <i>For 316 Stainless Steel, Add</i>	86.36 9.98	21.86
23 37 13 13-0256 SF >4 SF, 304 Stainless Steel, Latticed Supply/Return Grille <i>For 316 Stainless Steel, Add</i>	86.36 9.98	21.86
23 37 13 13-0257 Removal And Reinstallation Of Distribution Devices <small>(23 37 13 13)</small>		
Note: Includes storage and cleaning. Excludes ductwork.		
23 37 13 13-0258 EA Removal And Reinstallation Of Variable Air Volume Terminal Unit 23 37 13 13-0259 EA Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit 23 37 13 13-0260 EA Removal And Reinstallation Of Lay-in Diffuser/Register/Grille 23 37 13 13-0261 EA Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille	262.44 289.46 43.38 58.76	
23 37 13 43 Security Registers and Grilles <small>(23 37 13)</small>		
23 37 13 43-0001 Security Supply Or Return Grille <small>(23 37 13 43)</small>		
Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.		
23 37 13 43-0002 EA 8" x 4" Steel Security Grille <i>For Anchoring Tabs, Add</i> <i>For Angle Iron Frame, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	196.55 15.45 27.38 58.28 0.35 38.63 200.85	21.02
23 37 13 43-0003 EA 8" x 6" Steel Security Grille <i>For Anchoring Tabs, Add</i> <i>For Angle Iron Frame, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	216.67 17.32 30.33 64.97 0.35 43.31 225.19	21.72
23 37 13 43-0004 EA 8" x 8" Steel Security Grille <i>For Anchoring Tabs, Add</i> <i>For Angle Iron Frame, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	248.03 19.90 34.75 74.55 0.35 49.74 258.66	24.53
23 37 13 43-0005 EA 10" x 4" Steel Security Grille <i>For Anchoring Tabs, Add</i> <i>For Angle Iron Frame, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	218.53 17.09 30.40 64.57 0.35 42.72 222.14	23.82
23 37 13 43-0006 EA 10" x 6" Steel Security Grille <i>For Anchoring Tabs, Add</i> <i>For Angle Iron Frame, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	233.05 18.26 32.43 68.95 0.35 45.65 237.37	25.23

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0007	EA	10" x 8" Steel Security Grille	265.34	27.33
		For Anchoring Tabs, Add	21.07	
		For Angle Iron Frame, Add	37.07	
		For Rear Operated Opposed Blade Damper, Add	79.20	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	52.67	
		For Stainless Steel, Add	273.88	
23 37 13 43-0008	EA	10" x 10" Steel Security Grille	295.29	29.44
		For Anchoring Tabs, Add	23.64	
		For Angle Iron Frame, Add	41.35	
		For Rear Operated Opposed Blade Damper, Add	88.64	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	59.11	
		For Stainless Steel, Add	307.36	
23 37 13 43-0009	EA	12" x 4" Steel Security Grille	231.17	26.63
		For Anchoring Tabs, Add	17.79	
		For Angle Iron Frame, Add	32.01	
		For Rear Operated Opposed Blade Damper, Add	67.59	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	44.48	
		For Stainless Steel, Add	231.28	
23 37 13 43-0010	EA	12" x 6" Steel Security Grille	257.83	29.44
		For Anchoring Tabs, Add	19.90	
		For Angle Iron Frame, Add	35.73	
		For Rear Operated Opposed Blade Damper, Add	75.53	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	49.74	
		For Stainless Steel, Add	258.66	
23 37 13 43-0011	EA	12" x 8" Steel Security Grille	292.47	31.54
		For Anchoring Tabs, Add	22.94	
		For Angle Iron Frame, Add	40.72	
		For Rear Operated Opposed Blade Damper, Add	86.60	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	57.35	
		For Stainless Steel, Add	298.22	
23 37 13 43-0012	EA	12" x 10" Steel Security Grille	317.74	33.64
		For Anchoring Tabs, Add	25.05	
		For Angle Iron Frame, Add	44.30	
		For Rear Operated Opposed Blade Damper, Add	94.39	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	62.62	
		For Stainless Steel, Add	325.61	
23 37 13 43-0013	EA	12" x 12" Steel Security Grille	350.03	35.74
		For Anchoring Tabs, Add	27.86	
		For Angle Iron Frame, Add	48.93	
		For Rear Operated Opposed Blade Damper, Add	104.64	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	69.64	
		For Stainless Steel, Add	362.13	
23 37 13 43-0014	EA	14" x 4" Steel Security Grille	247.07	28.73
		For Anchoring Tabs, Add	18.96	
		For Angle Iron Frame, Add	34.19	
		For Rear Operated Opposed Blade Damper, Add	72.11	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	47.40	
		For Stainless Steel, Add	246.49	
23 37 13 43-0015	EA	14" x 6" Steel Security Grille	277.03	30.83
		For Anchoring Tabs, Add	21.54	
		For Angle Iron Frame, Add	38.47	
		For Rear Operated Opposed Blade Damper, Add	81.54	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	53.84	
		For Stainless Steel, Add	279.97	
23 37 13 43-0016	EA	14" x 8" Steel Security Grille	308.38	33.64
		For Anchoring Tabs, Add	24.11	
		For Angle Iron Frame, Add	42.89	
		For Rear Operated Opposed Blade Damper, Add	91.12	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	60.28	
		For Stainless Steel, Add	313.44	
23 37 13 43-0017	EA	14" x 10" Steel Security Grille	346.76	36.44
		For Anchoring Tabs, Add	27.39	
		For Angle Iron Frame, Add	48.37	
		For Rear Operated Opposed Blade Damper, Add	103.15	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	68.47	
		For Stainless Steel, Add	356.04	
23 37 13 43-0018	EA	14" x 12" Steel Security Grille	381.85	39.95
		For Anchoring Tabs, Add	30.20	
		For Angle Iron Frame, Add	53.28	
		For Rear Operated Opposed Blade Damper, Add	113.68	
		For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
		For 1" x 1" Square Holes On Face, Add	75.49	
		For Stainless Steel, Add	392.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0019 EA 14" x 14" Steel Security Grille	410.87	42.75
For Anchoring Tabs, Add	32.54	
For Angle Iron Frame, Add	57.36	
For Rear Operated Opposed Blade Damper, Add	122.43	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	81.35	
For Stainless Steel, Add	422.99	
23 37 13 43-0020 EA 16" x 6" Steel Security Grille	296.67	33.64
For Anchoring Tabs, Add	22.94	
For Angle Iron Frame, Add	41.14	
For Rear Operated Opposed Blade Damper, Add	87.02	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	57.35	
For Stainless Steel, Add	298.22	
23 37 13 43-0021 EA 16" x 8" Steel Security Grille	337.40	36.44
For Anchoring Tabs, Add	26.45	
For Angle Iron Frame, Add	46.97	
For Rear Operated Opposed Blade Damper, Add	99.87	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	66.13	
For Stainless Steel, Add	343.88	
23 37 13 43-0022 EA 16" x 10" Steel Security Grille	364.06	39.24
For Anchoring Tabs, Add	28.56	
For Angle Iron Frame, Add	50.69	
For Rear Operated Opposed Blade Damper, Add	107.80	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	71.40	
For Stainless Steel, Add	371.25	
23 37 13 43-0023 EA 16" x 12" Steel Security Grille	408.07	41.34
For Anchoring Tabs, Add	32.54	
For Angle Iron Frame, Add	57.08	
For Rear Operated Opposed Blade Damper, Add	122.15	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	81.35	
For Stainless Steel, Add	422.99	
23 37 13 43-0024 EA 16" x 14" Steel Security Grille	432.40	44.15
For Anchoring Tabs, Add	34.41	
For Angle Iron Frame, Add	60.45	
For Rear Operated Opposed Blade Damper, Add	129.27	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	86.03	
For Stainless Steel, Add	447.34	
23 37 13 43-0025 EA 16" x 16" Steel Security Grille	468.44	46.96
For Anchoring Tabs, Add	37.45	
For Angle Iron Frame, Add	65.57	
For Rear Operated Opposed Blade Damper, Add	140.48	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	93.64	
For Stainless Steel, Add	486.90	
23 37 13 43-0026 EA 18" x 6" Steel Security Grille	316.79	37.84
For Anchoring Tabs, Add	24.11	
For Angle Iron Frame, Add	43.73	
For Rear Operated Opposed Blade Damper, Add	91.96	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	60.28	
For Stainless Steel, Add	313.44	
23 37 13 43-0027 EA 18" x 8" Steel Security Grille	359.85	40.65
For Anchoring Tabs, Add	27.86	
For Angle Iron Frame, Add	49.91	
For Rear Operated Opposed Blade Damper, Add	105.63	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	69.64	
For Stainless Steel, Add	362.13	
23 37 13 43-0028 EA 18" x 10" Steel Security Grille	393.54	43.45
For Anchoring Tabs, Add	30.67	
For Angle Iron Frame, Add	54.69	
For Rear Operated Opposed Blade Damper, Add	116.02	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	76.66	
For Stainless Steel, Add	398.65	
23 37 13 43-0029 EA 18" x 12" Steel Security Grille	431.92	46.25
For Anchoring Tabs, Add	33.94	
For Angle Iron Frame, Add	60.16	
For Rear Operated Opposed Blade Damper, Add	128.05	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	84.86	
For Stainless Steel, Add	441.25	
23 37 13 43-0030 EA 18" x 14" Steel Security Grille	458.62	45.55
For Anchoring Tabs, Add	36.75	
For Angle Iron Frame, Add	64.24	
For Rear Operated Opposed Blade Damper, Add	137.74	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	91.88	
For Stainless Steel, Add	477.78	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0031	EA		18" x 16" Steel Security Grille	500.27	47.65
			<i>For Anchoring Tabs, Add</i>	40.50	
			<i>For Angle Iron Frame, Add</i>	70.28	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	151.27	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	101.24	
			<i>For Stainless Steel, Add</i>	526.46	
23 37 13 43-0032	EA		18" x 18" Steel Security Grille	534.91	49.75
			<i>For Anchoring Tabs, Add</i>	43.54	
			<i>For Angle Iron Frame, Add</i>	75.26	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	162.34	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	108.85	
			<i>For Stainless Steel, Add</i>	566.02	
23 37 13 43-0033	EA		20" x 6" Steel Security Grille	340.18	41.34
			<i>For Anchoring Tabs, Add</i>	25.75	
			<i>For Angle Iron Frame, Add</i>	46.89	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	98.39	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	64.37	
			<i>For Stainless Steel, Add</i>	334.74	
23 37 13 43-0034	EA		20" x 8" Steel Security Grille	383.71	45.55
			<i>For Anchoring Tabs, Add</i>	29.26	
			<i>For Angle Iron Frame, Add</i>	53.00	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	111.52	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	73.15	
			<i>For Stainless Steel, Add</i>	380.39	
23 37 13 43-0035	EA		20" x 10" Steel Security Grille	420.68	47.65
			<i>For Anchoring Tabs, Add</i>	32.54	
			<i>For Angle Iron Frame, Add</i>	58.34	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	123.41	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	81.35	
			<i>For Stainless Steel, Add</i>	422.99	
23 37 13 43-0036	EA		20" x 12" Steel Security Grille	461.40	50.46
			<i>For Anchoring Tabs, Add</i>	36.05	
			<i>For Angle Iron Frame, Add</i>	64.16	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	136.26	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	90.12	
			<i>For Stainless Steel, Add</i>	468.64	
23 37 13 43-0037	EA		20" x 14" Steel Security Grille	505.40	52.56
			<i>For Anchoring Tabs, Add</i>	40.03	
			<i>For Angle Iron Frame, Add</i>	70.55	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	150.61	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	100.07	
			<i>For Stainless Steel, Add</i>	520.38	
23 37 13 43-0038	EA		20" x 16" Steel Security Grille	544.72	54.66
			<i>For Anchoring Tabs, Add</i>	43.54	
			<i>For Angle Iron Frame, Add</i>	76.24	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	163.32	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	108.85	
			<i>For Stainless Steel, Add</i>	566.02	
23 37 13 43-0039	EA		20" x 18" Steel Security Grille	581.69	56.76
			<i>For Anchoring Tabs, Add</i>	46.82	
			<i>For Angle Iron Frame, Add</i>	81.58	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	175.21	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	117.04	
			<i>For Stainless Steel, Add</i>	608.62	
23 37 13 43-0040	EA		20" x 20" Steel Security Grille	625.70	58.86
			<i>For Anchoring Tabs, Add</i>	50.80	
			<i>For Angle Iron Frame, Add</i>	87.97	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	189.56	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	126.99	
			<i>For Stainless Steel, Add</i>	660.36	
23 37 13 43-0041	EA		24" x 6" Steel Security Grille	378.07	46.25
			<i>For Anchoring Tabs, Add</i>	28.56	
			<i>For Angle Iron Frame, Add</i>	52.09	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	109.20	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	71.40	
			<i>For Stainless Steel, Add</i>	371.25	
23 37 13 43-0042	EA		24" x 8" Steel Security Grille	426.28	50.46
			<i>For Anchoring Tabs, Add</i>	32.54	
			<i>For Angle Iron Frame, Add</i>	58.90	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	123.97	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	81.35	
			<i>For Stainless Steel, Add</i>	422.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0043 EA 24" x 10" Steel Security Grille	464.20	51.86
For Anchoring Tabs, Add	36.05	
For Angle Iron Frame, Add	64.44	
For Rear Operated Opposed Blade Damper, Add	136.54	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	90.12	
For Stainless Steel, Add	468.64	
23 37 13 43-0044 EA 24" x 12" Steel Security Grille	519.88	57.46
For Anchoring Tabs, Add	40.50	
For Angle Iron Frame, Add	72.24	
For Rear Operated Opposed Blade Damper, Add	153.23	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	101.24	
For Stainless Steel, Add	526.46	
23 37 13 43-0045 EA 24" x 14" Steel Security Grille	559.19	59.57
For Anchoring Tabs, Add	44.01	
For Angle Iron Frame, Add	77.92	
For Rear Operated Opposed Blade Damper, Add	165.94	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	110.02	
For Stainless Steel, Add	572.10	
23 37 13 43-0046 EA 24" x 16" Steel Security Grille	607.88	61.67
For Anchoring Tabs, Add	48.46	
For Angle Iron Frame, Add	85.02	
For Rear Operated Opposed Blade Damper, Add	181.93	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	121.14	
For Stainless Steel, Add	629.93	
23 37 13 43-0047 EA 24" x 18" Steel Security Grille	663.58	63.77
For Anchoring Tabs, Add	53.61	
For Angle Iron Frame, Add	93.16	
For Rear Operated Opposed Blade Damper, Add	200.37	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	134.02	
For Stainless Steel, Add	696.88	
23 37 13 43-0048 EA 24" x 20" Steel Security Grille	702.88	65.87
For Anchoring Tabs, Add	57.12	
For Angle Iron Frame, Add	98.85	
For Rear Operated Opposed Blade Damper, Add	213.08	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	142.79	
For Stainless Steel, Add	742.52	
23 37 13 43-0049 EA 24" x 24" Steel Security Grille	786.20	70.08
For Anchoring Tabs, Add	64.61	
For Angle Iron Frame, Add	110.92	
For Rear Operated Opposed Blade Damper, Add	240.14	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	161.52	
For Stainless Steel, Add	839.90	
23 37 13 43-0050 Security Registers And Grilles (23 37 13 43)		
23 37 13 43-0051 Maximum Security Steel Supply / Return Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0052 EA 6" x 6" Maximum Security Supply/ Return Register	221.49	15.88
23 37 13 43-0053 EA 9" x 9" Maximum Security Supply/ Return Register	317.70	18.65
23 37 13 43-0054 EA 12" x 6" Maximum Security Supply/ Return Register	297.50	19.58
23 37 13 43-0055 EA 12" x 8" Maximum Security Supply/ Return Register	343.48	22.60
23 37 13 43-0056 EA 10" x 10" Maximum Security Supply/ Return Register	321.63	19.58
23 37 13 43-0057 EA 14" x 12" Maximum Security Supply/ Return Register	445.57	27.54
23 37 13 43-0058 EA 14" x 14" Maximum Security Supply/ Return Register	503.63	29.67
23 37 13 43-0059 EA 18" x 18" Maximum Security Supply/ Return Register	671.92	35.26
23 37 13 43-0060 EA 24" x 24" Maximum Security Supply/ Return Registers	960.52	45.07
23 37 13 43-0061 Staff Security Steel Supply Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0062 EA 6" x 6" Staff Security Supply Register	168.41	15.68
23 37 13 43-0063 EA 9" x 9" Staff Security Supply Register	216.36	18.65
23 37 13 43-0064 EA 12" x 12" Staff Security Supply Register	273.66	25.45
23 37 13 43-0065 EA 15" x 15" Staff Security Supply Register	386.91	29.38
23 37 13 43-0066 EA 21" x 21" Staff Security Supply Register	548.54	39.19
23 37 13 43-0067 EA 24" x 24" Staff Security Supply Register	658.92	45.07
23 37 13 43-0068 Staff Security Steel Return Registers (23 37 13 43-0050)		
Note: Includes damper as manufactured by Titus or equal.		
23 37 13 43-0069 EA 10" x 4" 12 Gage Flat Steel Plate Staff Security Return Register	213.36	16.95
Note: Perforated with square holes.		
23 37 13 43-0070 EA 6" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	192.54	15.68
Note: Perforated with square holes.		
23 37 13 43-0071 EA 10" x 6" 12 Gage Flat Steel Plate Staff Security Return Register	232.21	17.65
Note: Perforated with square holes.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets and Inlets



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items 23 37 13 43-0072 to 23 37 13 43-0080.

23 37 13 43-0081 Maximum Security Steel Grills (23 37 13 43-0050)

Note: Includes damper as manufactured by Titus or equal.

Table with columns: CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items 23 37 13 43-0082 to 23 37 13 43-0092.

23 37 23 HVAC Gravity Ventilators (23 37)

23 37 23 13 HVAC Gravity Dome Ventilators (23 37 23)

23 37 23 13-0001 Rectangular Gravity Intake/Relief Ventilator Hood (23 37 23 13)

Note: Includes flange base and bird screen. Excludes curb.

Table with columns: CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items 23 37 23 13-0002 to 23 37 23 13-0043.



Table with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Lists various throat sizes and ventilation hoods.

23 38 Ventilation Hoods (23 30)

23 38 13 Commercial-Kitchen Hoods (23 38)

23 38 13 13 Listed Commercial-Kitchen Hoods (23 38 13)

23 38 13 13-0001 Universal Ventless Hood (23 38 13 13)

Table row for Universal Ventless Hood with description and costs.

23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)

23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16)

Note: Excludes fire suppression. See CSI section 21 24 16 00-0000 for fire suppression system, 23 31 13 23-0000 for duct, 23 34 16 00-0108 for exhaust and supply fans.

23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001)

Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.

Table listing various dry filter exhaust hood sizes (8" to 16" long) and their associated costs.

23 38 13 16-0020 Dry Extractor Exhaust Hoods (23 38 13 16-0001)

Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.

Table listing various dry extractor exhaust hood sizes (8" to 14" long) and their associated costs.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 38 Ventilation Hoods**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 38 13 16-0034 EA 14'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	23,891.05	2,033.28
23 38 13 16-0035 EA 15" Long x 60" Deep Dry Extractor Exhaust Hood.....	25,354.07	2,103.39
23 38 13 16-0036 EA 15'-6" Long x 60" Deep Dry Extractor Exhaust Hood.....	26,838.86	2,173.52
23 38 13 16-0037 EA 16" Long x 60" Deep Dry Extractor Exhaust Hood.....	28,307.74	2,243.63
23 38 13 16-0038 Single Manifold Water Wash Exhaust Hoods <small>(23 38 13 16-0001)</small>		
Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.		
23 38 13 16-0039 EA 8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	15,797.10	1,121.81
23 38 13 16-0040 EA 8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	16,310.03	1,191.93
23 38 13 16-0041 EA 9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	17,665.34	1,262.04
23 38 13 16-0042 EA 9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	18,175.72	1,332.15
23 38 13 16-0043 EA 10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	18,712.60	1,402.27
23 38 13 16-0044 EA 10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	19,209.82	1,472.38
23 38 13 16-0045 EA 11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	19,721.97	1,542.49
23 38 13 16-0046 EA 11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	20,234.81	1,612.60
23 38 13 16-0047 EA 12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	20,695.41	1,682.72
23 38 13 16-0048 EA 12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	21,370.28	1,752.84
23 38 13 16-0049 EA 13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	22,137.78	1,822.95
23 38 13 16-0050 EA 13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	22,946.08	1,893.06
23 38 13 16-0051 EA 14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	24,538.92	1,963.17
23 38 13 16-0052 EA 14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	25,361.65	2,033.28
23 38 13 16-0053 EA 15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	26,965.34	2,103.39
23 38 13 16-0054 EA 15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	27,785.16	2,173.52
23 38 13 16-0055 EA 16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood.....	28,601.86	2,243.63
23 38 13 16-0056 EA Fan Wash Control Panel.....	11,195.25	560.90
Note: Includes time clock and backflow preventer.		
23 38 13 16-0057 Utility Distribution System (UDS) <small>(23 38 13 16-0001)</small>		
Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.		
23 38 13 16-0058 EA 8' Long UDS.....	26,457.93	570.45
23 38 13 16-0059 EA 8'-6" Long UDS.....	27,236.62	584.33
23 38 13 16-0060 EA 9' Long UDS.....	28,006.76	597.92
23 38 13 16-0061 EA 9'-6" Long UDS.....	28,787.98	616.99
23 38 13 16-0062 EA 10' Long UDS.....	29,561.28	632.14
23 38 13 16-0063 EA 10'-6" Long UDS.....	30,328.03	648.12
23 38 13 16-0064 EA 11' Long UDS.....	31,101.22	659.20
23 38 13 16-0065 EA 11'-6" Long UDS.....	31,878.87	676.60
23 38 13 16-0066 EA 12' Long UDS.....	32,671.03	701.14
23 38 13 16-0067 EA 12'-6" Long UDS.....	33,480.76	734.50
23 38 13 16-0068 EA 13' Long UDS.....	34,266.91	756.10
23 38 13 16-0069 EA 13'-6" Long UDS.....	35,071.61	786.95
23 38 13 16-0070 EA 14' Long UDS.....	35,864.26	811.77
23 38 13 16-0071 EA 14'-6" Long UDS.....	36,660.16	838.28
23 38 13 16-0072 EA 15' Long UDS.....	37,459.64	866.60
23 38 13 16-0073 EA 15'-6" Long UDS.....	38,263.04	896.75
23 38 13 16-0074 EA 16' Long UDS.....	39,048.71	918.20
23 38 13 16-0075 Stainless Steel Exhaust Hood Material <small>(23 38 13 16)</small>		
Note: Welded seams.		
23 38 13 16-0076 SF 16 Gauge, Type 304, Stainless Steel Exhaust Hood Material.....	46.19	17.23
<i>For Type 316 Stainless Steel, Add</i>		
	1.05	
23 38 13 16-0077 SF 14 Gauge, Type 304, Stainless Steel Exhaust Hood Material.....	57.74	22.97
<i>For Type 316 Stainless Steel, Add</i>		
	1.31	
23 38 13 16-0078 SF 12 Gauge, Type 304, Stainless Steel Exhaust Hood Material.....	80.13	31.01
<i>For Type 316 Stainless Steel, Add</i>		
	1.83	
23 38 13 16-0079 SF 10 Gauge, Type 304, Stainless Steel Exhaust Hood Material.....	100.08	37.89
<i>For Type 316 Stainless Steel, Add</i>		
	2.35	
23 40 HVAC Air Cleaning Devices <small>(23)</small>		
23 41 Particulate Air Filtration <small>(23 40)</small>		
23 41 13 Panel Air Filters <small>(23 41)</small>		
23 41 13 00-0001 Disposable Air Filters <small>(23 41 13)</small>		
23 41 13 00-0002 EA Throwaway Glass Or Paper Media Filter, Residential.....	14.33	
23 41 13 00-0003 Disposable Fiberglass Air Filters <small>(23 41 13)</small>		
23 41 13 00-0004 EA 8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.39	6.73
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0005 EA 8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5.....	14.39	6.73
Note: One-piece kraft fiberboard frame with two metal grids.		



Heating, Ventilating, and Air-Conditioning (HVAC)

23

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41	13 00-0006	EA	8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.12	6.73
23 41	13 00-0007	EA	10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.09	7.04
23 41	13 00-0008	EA	10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.09	7.04
23 41	13 00-0009	EA	10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.09	7.04
23 41	13 00-0010	EA	10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.09	7.04
23 41	13 00-0011	EA	10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.31	7.04
23 41	13 00-0012	EA	12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.88	7.36
23 41	13 00-0013	EA	12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.85	7.36
23 41	13 00-0014	EA	12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.22	7.36
23 41	13 00-0015	EA	12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.22	7.36
23 41	13 00-0016	EA	12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.22	7.36
23 41	13 00-0017	EA	12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.69	7.36
23 41	13 00-0018	EA	12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.51	7.36
23 41	13 00-0019	EA	14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.98	7.77
23 41	13 00-0020	EA	14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.34	7.77
23 41	13 00-0021	EA	14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.07	7.77
23 41	13 00-0022	EA	14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.98	7.77
23 41	13 00-0023	EA	14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.07	7.77
23 41	13 00-0024	EA	14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.83	7.77
23 41	13 00-0025	EA	15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.27	7.99
23 41	13 00-0026	EA	15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.27	7.99
23 41	13 00-0027	EA	15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.39	7.99
23 41	13 00-0028	EA	16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.44	8.10
23 41	13 00-0029	EA	16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.97	8.10
23 41	13 00-0030	EA	16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.49	8.10
23 41	13 00-0031	EA	16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.40	8.10
23 41	13 00-0032	EA	16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.90	8.10
23 41	13 00-0033	EA	16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.55	8.10
23 41	13 00-0034	EA	16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.97	8.10
23 41	13 00-0035	EA	16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.70	8.10
23 41	13 00-0036	EA	18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.82	8.41
23 41	13 00-0037	EA	18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.46	8.41
23 41	13 00-0038	EA	18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.82	8.41
23 41	13 00-0039	EA	18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.01	8.41
23 41	13 00-0040	EA	18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.74	8.41
23 41	13 00-0041	EA	18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.74	8.41
23 41	13 00-0042	EA	19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.65	8.83
23 41	13 00-0043	EA	20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.88	8.83
23 41	13 00-0044	EA	20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.00	8.83
23 41	13 00-0045	EA	20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.27	8.83
23 41	13 00-0046	EA	20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.75	8.83
23 41	13 00-0047	EA	20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.96	8.83

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0048 EA 20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.75	8.83
23 41 13 00-0049 EA 21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.93	8.93
23 41 13 00-0050 EA 22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.15	9.04
23 41 13 00-0051 EA 24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.28	9.14
23 41 13 00-0052 EA 24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.88	9.14
23 41 13 00-0053 EA 24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.04	9.14
23 41 13 00-0054 EA 25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.42	9.25
23 41 13 00-0055 EA 25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.55	9.25
23 41 13 00-0056 EA 10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.95	7.04
23 41 13 00-0057 EA 10" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.93	7.04
23 41 13 00-0058 EA 12" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.26	7.36
23 41 13 00-0059 EA 14" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.81	7.77
23 41 13 00-0060 EA 14" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.81	7.77
23 41 13 00-0061 EA 15" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.20	7.99
23 41 13 00-0062 EA 16" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.12	8.10
23 41 13 00-0063 EA 16" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.96	8.10
23 41 13 00-0064 EA 16" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.34	8.10
23 41 13 00-0065 EA 18" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.42	8.41
23 41 13 00-0066 EA 20" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.09	8.83
23 41 13 00-0067 EA 20" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.83	8.83
23 41 13 00-0068 EA 20" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.83	8.83
23 41 13 00-0069 EA 24" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.51	9.14
23 41 13 00-0070 EA 25" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.65	9.25
23 41 13 00-0071 Disposable Pleated Air Filters (23 41 13)		
23 41 13 00-0072 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	15.13	7.04
23 41 13 00-0073 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.90	7.04
23 41 13 00-0074 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.25	7.04
23 41 13 00-0075 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 8.....	19.21	7.36
23 41 13 00-0076 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	17.95	7.36
23 41 13 00-0077 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	17.75	7.36
23 41 13 00-0078 EA 12" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	17.75	7.36
23 41 13 00-0079 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.68	7.36
23 41 13 00-0080 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 8.....	21.64	7.77
23 41 13 00-0081 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.50	7.77
23 41 13 00-0082 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	23.24	7.77
23 41 13 00-0083 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	19.08	7.77
23 41 13 00-0084 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	26.80	7.77
23 41 13 00-0085 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.90	7.99
23 41 13 00-0086 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 8.....	22.06	8.10
23 41 13 00-0087 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	18.65	8.10
23 41 13 00-0088 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.52	8.10
23 41 13 00-0089 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	19.30	8.10
23 41 13 00-0090 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.22	8.10
23 41 13 00-0091 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 8.....	29.07	8.41
23 41 13 00-0092 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	21.90	8.41
23 41 13 00-0093 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.54	8.41
23 41 13 00-0094 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	21.29	8.41
23 41 13 00-0095 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	29.24	8.41
23 41 13 00-0096 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	20.39	8.83
23 41 13 00-0097 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	21.69	8.83
23 41 13 00-0098 EA 20" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	21.47	8.83
23 41 13 00-0099 EA 20" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	24.07	8.83
23 41 13 00-0100 EA 22" x 22" x 1" Disposable Pleated Air Filter, MERV 8.....	28.96	9.04
23 41 13 00-0101 EA 24" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	23.05	9.14
23 41 13 00-0102 EA 24" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	35.34	9.14
23 41 13 00-0103 EA 25" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	24.32	9.25
23 41 13 00-0104 EA 10" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	17.65	7.04
23 41 13 00-0105 EA 12" x 12" x 2" Disposable Pleated Air Filter, MERV 8.....	22.73	7.36



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 41 13 00-0106	EA	12" x 20" x 2" Disposable Pleated Air Filter, MERV 8	18.50	7.36
23 41 13 00-0107	EA	12" x 24" x 2" Disposable Pleated Air Filter, MERV 8	18.24	7.36
23 41 13 00-0108	EA	14" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.27	7.77
23 41 13 00-0109	EA	14" x 25" x 2" Disposable Pleated Air Filter, MERV 8	20.06	7.77
23 41 13 00-0110	EA	15" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.55	7.99
23 41 13 00-0111	EA	16" x 16" x 2" Disposable Pleated Air Filter, MERV 8	24.25	8.10
23 41 13 00-0112	EA	16" x 20" x 2" Disposable Pleated Air Filter, MERV 8	19.21	8.10
23 41 13 00-0113	EA	16" x 24" x 2" Disposable Pleated Air Filter, MERV 8	21.71	8.10
23 41 13 00-0114	EA	16" x 25" x 2" Disposable Pleated Air Filter, MERV 8	20.22	8.10
23 41 13 00-0115	EA	18" x 18" x 2" Disposable Pleated Air Filter, MERV 8	27.83	8.41
23 41 13 00-0116	EA	18" x 20" x 2" Disposable Pleated Air Filter, MERV 8	23.96	8.41
23 41 13 00-0117	EA	18" x 24" x 2" Disposable Pleated Air Filter, MERV 8	21.90	8.41
23 41 13 00-0118	EA	18" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.69	8.41
23 41 13 00-0119	EA	20" x 20" x 2" Disposable Pleated Air Filter, MERV 8	21.40	8.83
23 41 13 00-0120	EA	20" x 24" x 2" Disposable Pleated Air Filter, MERV 8	22.84	8.83
23 41 13 00-0121	EA	20" x 25" x 2" Disposable Pleated Air Filter, MERV 8	22.59	8.83
23 41 13 00-0122	EA	20" x 30" x 2" Disposable Pleated Air Filter, MERV 8	31.92	8.83
23 41 13 00-0123	EA	24" x 24" x 2" Disposable Pleated Air Filter, MERV 8	24.15	9.14
23 41 13 00-0124	EA	25" x 25" x 2" Disposable Pleated Air Filter, MERV 8	26.54	9.25
23 41 13 00-0125	EA	12" x 24" x 4" Disposable Pleated Air Filter, MERV 8	27.28	7.36
23 41 13 00-0126	EA	16" x 20" x 4" Disposable Pleated Air Filter, MERV 8	29.50	8.10
23 41 13 00-0127	EA	16" x 25" x 4" Disposable Pleated Air Filter, MERV 8	31.44	8.10
23 41 13 00-0128	EA	18" x 24" x 4" Disposable Pleated Air Filter, MERV 8	33.86	8.41
23 41 13 00-0129	EA	20" x 20" x 4" Disposable Pleated Air Filter, MERV 8	32.33	8.83
23 41 13 00-0130	EA	20" x 24" x 4" Disposable Pleated Air Filter, MERV 8	35.05	8.83
23 41 13 00-0131	EA	20" x 25" x 4" Disposable Pleated Air Filter, MERV 8	35.30	8.83
23 41 13 00-0132	EA	24" x 24" x 4" Disposable Pleated Air Filter, MERV 8	38.44	9.14
23 41 13 00-0133	EA	10" x 20" x 1" Disposable Pleated Air Filter, MERV 11	24.87	7.04
23 41 13 00-0134	EA	10" x 24" x 1" Disposable Pleated Air Filter, MERV 11	24.87	7.04
23 41 13 00-0135	EA	10" x 30" x 1" Disposable Pleated Air Filter, MERV 11	31.89	7.04
23 41 13 00-0136	EA	12" x 12" x 1" Disposable Pleated Air Filter, MERV 11	26.35	7.36
23 41 13 00-0137	EA	12" x 20" x 1" Disposable Pleated Air Filter, MERV 11	25.72	7.36
23 41 13 00-0138	EA	12" x 24" x 1" Disposable Pleated Air Filter, MERV 11	25.62	7.36
23 41 13 00-0139	EA	12" x 30" x 1" Disposable Pleated Air Filter, MERV 11	36.08	7.36
23 41 13 00-0140	EA	14" x 14" x 1" Disposable Pleated Air Filter, MERV 11	29.83	7.77
23 41 13 00-0141	EA	14" x 20" x 1" Disposable Pleated Air Filter, MERV 11	26.43	7.77
23 41 13 00-0142	EA	14" x 24" x 1" Disposable Pleated Air Filter, MERV 11	33.74	7.77
23 41 13 00-0143	EA	14" x 25" x 1" Disposable Pleated Air Filter, MERV 11	33.03	7.77
23 41 13 00-0144	EA	14" x 30" x 1" Disposable Pleated Air Filter, MERV 11	38.55	7.77
23 41 13 00-0145	EA	15" x 20" x 1" Disposable Pleated Air Filter, MERV 11	25.46	7.99
23 41 13 00-0146	EA	16" x 16" x 1" Disposable Pleated Air Filter, MERV 11	35.51	8.10
23 41 13 00-0147	EA	16" x 20" x 1" Disposable Pleated Air Filter, MERV 11	23.89	8.10
23 41 13 00-0148	EA	16" x 24" x 1" Disposable Pleated Air Filter, MERV 11	30.41	8.10
23 41 13 00-0149	EA	16" x 25" x 1" Disposable Pleated Air Filter, MERV 11	28.06	8.10
23 41 13 00-0150	EA	16" x 30" x 1" Disposable Pleated Air Filter, MERV 11	36.60	8.10
23 41 13 00-0151	EA	18" x 18" x 1" Disposable Pleated Air Filter, MERV 11	37.47	8.41
23 41 13 00-0152	EA	18" x 20" x 1" Disposable Pleated Air Filter, MERV 11	32.02	8.41
23 41 13 00-0153	EA	18" x 24" x 1" Disposable Pleated Air Filter, MERV 11	29.01	8.41
23 41 13 00-0154	EA	18" x 25" x 1" Disposable Pleated Air Filter, MERV 11	30.83	8.41
23 41 13 00-0155	EA	18" x 30" x 1" Disposable Pleated Air Filter, MERV 11	42.16	8.41
23 41 13 00-0156	EA	20" x 20" x 1" Disposable Pleated Air Filter, MERV 11	29.22	8.83
23 41 13 00-0157	EA	20" x 24" x 1" Disposable Pleated Air Filter, MERV 11	31.91	8.83
23 41 13 00-0158	EA	20" x 25" x 1" Disposable Pleated Air Filter, MERV 11	32.20	8.83
23 41 13 00-0159	EA	20" x 30" x 1" Disposable Pleated Air Filter, MERV 11	37.21	8.83
23 41 13 00-0160	EA	22" x 22" x 1" Disposable Pleated Air Filter, MERV 11	41.06	9.04
23 41 13 00-0161	EA	24" x 24" x 1" Disposable Pleated Air Filter, MERV 11	34.85	9.14
23 41 13 00-0162	EA	24" x 30" x 1" Disposable Pleated Air Filter, MERV 11	44.69	9.14
23 41 13 00-0163	EA	25" x 25" x 1" Disposable Pleated Air Filter, MERV 11	39.04	9.25
23 41 13 00-0164	EA	10" x 20" x 2" Disposable Pleated Air Filter, MERV 11	25.29	7.04
23 41 13 00-0165	EA	12" x 12" x 2" Disposable Pleated Air Filter, MERV 11	26.63	7.36
23 41 13 00-0166	EA	12" x 20" x 2" Disposable Pleated Air Filter, MERV 11	25.38	7.36
23 41 13 00-0167	EA	12" x 24" x 2" Disposable Pleated Air Filter, MERV 11	29.57	7.36
23 41 13 00-0168	EA	14" x 20" x 2" Disposable Pleated Air Filter, MERV 11	26.72	7.77
23 41 13 00-0169	EA	14" x 25" x 2" Disposable Pleated Air Filter, MERV 11	27.92	7.77
23 41 13 00-0170	EA	15" x 20" x 2" Disposable Pleated Air Filter, MERV 11	27.44	7.99
23 41 13 00-0171	EA	16" x 16" x 2" Disposable Pleated Air Filter, MERV 11	36.22	8.10
23 41 13 00-0172	EA	16" x 20" x 2" Disposable Pleated Air Filter, MERV 11	31.73	8.10
23 41 13 00-0173	EA	16" x 24" x 2" Disposable Pleated Air Filter, MERV 11	30.97	8.10
23 41 13 00-0174	EA	16" x 25" x 2" Disposable Pleated Air Filter, MERV 11	34.87	8.10
23 41 13 00-0175	EA	18" x 18" x 2" Disposable Pleated Air Filter, MERV 11	41.57	8.41
23 41 13 00-0176	EA	18" x 20" x 2" Disposable Pleated Air Filter, MERV 11	33.29	8.41
23 41 13 00-0177	EA	18" x 24" x 2" Disposable Pleated Air Filter, MERV 11	37.77	8.41
23 41 13 00-0178	EA	18" x 25" x 2" Disposable Pleated Air Filter, MERV 11	32.94	8.41
23 41 13 00-0179	EA	20" x 20" x 2" Disposable Pleated Air Filter, MERV 11	36.44	8.83
23 41 13 00-0180	EA	20" x 24" x 2" Disposable Pleated Air Filter, MERV 11	38.93	8.83
23 41 13 00-0181	EA	20" x 25" x 2" Disposable Pleated Air Filter, MERV 11	39.30	8.83
23 41 13 00-0182	EA	24" x 24" x 2" Disposable Pleated Air Filter, MERV 11	39.34	9.14
23 41 13 00-0183	EA	25" x 25" x 2" Disposable Pleated Air Filter, MERV 11	39.85	9.25
23 41 13 00-0184	EA	12" x 24" x 4" Disposable Pleated Air Filter, MERV 11	47.19	7.36
23 41 13 00-0185	EA	16" x 20" x 4" Disposable Pleated Air Filter, MERV 11	48.43	8.10
23 41 13 00-0186	EA	16" x 25" x 4" Disposable Pleated Air Filter, MERV 11	57.38	8.10

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41	13 00-0187	EA	18" x 24" x 4" Disposable Pleated Air Filter, MERV 11	57.36	8.41
23 41	13 00-0188	EA	20" x 20" x 4" Disposable Pleated Air Filter, MERV 11	57.24	8.83
23 41	13 00-0189	EA	20" x 24" x 4" Disposable Pleated Air Filter, MERV 11	62.86	8.83
23 41	13 00-0190	EA	20" x 25" x 4" Disposable Pleated Air Filter, MERV 11	62.86	8.83
23 41	13 00-0191	EA	24" x 24" x 4" Disposable Pleated Air Filter, MERV 11	70.00	9.14
23 41	13 00-0192	EA	8" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41	13 00-0193	EA	8" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41	13 00-0194	EA	8" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.29	6.73
23 41	13 00-0195	EA	10" x 10" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41	13 00-0196	EA	10" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.40	7.04
23 41	13 00-0197	EA	10" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41	13 00-0198	EA	10" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41	13 00-0199	EA	10" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.71	7.04
23 41	13 00-0200	EA	12" x 12" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41	13 00-0201	EA	12" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41	13 00-0202	EA	12" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41	13 00-0203	EA	12" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	30.83	7.36
23 41	13 00-0204	EA	12" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41	13 00-0205	EA	12" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.14	7.36
23 41	13 00-0206	EA	12" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.45	7.36
23 41	13 00-0207	EA	14" x 14" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41	13 00-0208	EA	14" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.69	7.77
23 41	13 00-0209	EA	14" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41	13 00-0210	EA	14" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41	13 00-0211	EA	14" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.38	7.77
23 41	13 00-0212	EA	14" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.69	7.77
23 41	13 00-0213	EA	15" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.66	7.99
23 41	13 00-0214	EA	15" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.97	7.99
23 41	13 00-0215	EA	15" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.97	7.99
23 41	13 00-0216	EA	16" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41	13 00-0217	EA	16" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41	13 00-0218	EA	16" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41	13 00-0219	EA	16" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41	13 00-0220	EA	16" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	31.80	8.10
23 41	13 00-0221	EA	16" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41	13 00-0222	EA	16" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	33.11	8.10
23 41	13 00-0223	EA	16" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.38	8.10
23 41	13 00-0224	EA	18" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.22	8.41
23 41	13 00-0225	EA	18" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41	13 00-0226	EA	18" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.22	8.41
23 41	13 00-0227	EA	18" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41	13 00-0228	EA	18" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.84	8.41
23 41	13 00-0229	EA	18" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.80	8.41
23 41	13 00-0230	EA	19" x 27" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	35.41	8.83
23 41	13 00-0231	EA	20" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41	13 00-0232	EA	20" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41	13 00-0233	EA	20" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	32.79	8.83
23 41	13 00-0234	EA	20" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.10	8.83
23 41	13 00-0235	EA	20" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	38.37	8.83
23 41	13 00-0236	EA	20" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	38.37	8.83
23 41	13 00-0237	EA	21" x 21" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	35.55	8.93
23 41	13 00-0238	EA	22" x 22" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	34.38	9.04
23 41	13 00-0239	EA	24" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.14	9.14
23 41	13 00-0240	EA	24" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.14	9.14
23 41	13 00-0241	EA	24" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	41.40	9.14
23 41	13 00-0242	EA	25" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	37.28	9.25
23 41	13 00-0243	EA	25" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	41.54	9.25
23 41	13 00-0244	EA	30" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13	41.82	9.46
23 41	13 00-0245		Carbon Vapor Trap, Disposable V-Bank Filter (23 41 13)		
23 41	13 00-0246	EA	24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter	767.90	21.02
23 41	13 00-0247		Electrostatic Air Filters With Frame, Element And Busbar (23 41 13)		
23 41	13 00-0248	MF3	Electrostatic Air Filter, High Efficiency Non Supported With Frame, Element And Busbar	68.34	
23 41	13 00-0249	MF3	Electrostatic Air Filter, Medium Efficiency Non Supported With Frame, Element And Busbar	66.00	
23 41	13 00-0250	MF3	Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar	2.85	
23 41	16		Renewable-Media Air Filters (23 41)		
23 41	16 00-0001		Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar (23 41 16)		
23 41	16 00-0002	MF3	Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar	117.60	
23 41	19		Washable Air Filters (23 41)		
23 41	19 00-0001		Washable Electrostatic Air Filters With Frame, Element And Busbar (23 41 19)		
23 41	19 00-0002	MF3	Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar	44.90	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 41 33			High-Efficiency Particulate Filtration ^(23 41)		
	23 41 33 00-0001			High Efficiency Particulate Air (HEPA) Filters ^(23 41 33) Note: Includes particle board and kraft paper frame and separator material. See CSI section 23 41 13 00-0000 for prefilters.		
	23 41 33 00-0002			High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95% ^(23 41 33 00-0001)		
	23 41 33 00-0003	EA		12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete 128.30		19.62
				<i>For Removal And Replacement In Existing Equipment, Add</i>	3.92	
				<i>For >10 To 25, Deduct</i>	-3.21	
				<i>For >25 To 50, Deduct</i>	-6.42	
				<i>For >50 To 100, Deduct</i>	-9.62	
				<i>For >100, Deduct</i>	-12.83	
	23 41 33 00-0004	EA		24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete 169.16		22.43
				<i>For Removal And Replacement In Existing Equipment, Add</i>	4.49	
				<i>For >10 To 25, Deduct</i>	-4.23	
				<i>For >25 To 50, Deduct</i>	-8.46	
				<i>For >50 To 100, Deduct</i>	-12.69	
				<i>For >100, Deduct</i>	-16.92	
	23 41 33 00-0005	EA		24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete 197.87		25.93
				<i>For Removal And Replacement In Existing Equipment, Add</i>	5.19	
				<i>For >10 To 25, Deduct</i>	-4.95	
				<i>For >25 To 50, Deduct</i>	-9.89	
				<i>For >50 To 100, Deduct</i>	-14.84	
				<i>For >100, Deduct</i>	-19.79	
	23 41 33 00-0006	EA		24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete 226.58		29.44
				<i>For Removal And Replacement In Existing Equipment, Add</i>	5.89	
				<i>For >10 To 25, Deduct</i>	-5.66	
				<i>For >25 To 50, Deduct</i>	-11.33	
				<i>For >50 To 100, Deduct</i>	-16.99	
				<i>For >100, Deduct</i>	-22.66	
	23 41 33 00-0007	EA		12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete 155.20		21.02
				<i>For Removal And Replacement In Existing Equipment, Add</i>	4.21	
				<i>For >10 To 25, Deduct</i>	-3.88	
				<i>For >25 To 50, Deduct</i>	-7.76	
				<i>For >50 To 100, Deduct</i>	-11.64	
				<i>For >100, Deduct</i>	-15.52	
	23 41 33 00-0008	EA		24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete 206.99		24.53
				<i>For Removal And Replacement In Existing Equipment, Add</i>	4.91	
				<i>For >10 To 25, Deduct</i>	-5.17	
				<i>For >25 To 50, Deduct</i>	-10.35	
				<i>For >50 To 100, Deduct</i>	-15.52	
				<i>For >100, Deduct</i>	-20.70	
	23 41 33 00-0009	EA		24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete 246.91		28.03
				<i>For Removal And Replacement In Existing Equipment, Add</i>	5.61	
				<i>For >10 To 25, Deduct</i>	-6.17	
				<i>For >25 To 50, Deduct</i>	-12.35	
				<i>For >50 To 100, Deduct</i>	-18.52	
				<i>For >100, Deduct</i>	-24.69	
	23 41 33 00-0010	EA		24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete 293.84		35.04
				<i>For Removal And Replacement In Existing Equipment, Add</i>	7.01	
				<i>For >10 To 25, Deduct</i>	-7.35	
				<i>For >25 To 50, Deduct</i>	-14.69	
				<i>For >50 To 100, Deduct</i>	-22.04	
				<i>For >100, Deduct</i>	-29.38	
	23 41 33 00-0011			High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99% ^(23 41 33 00-0001)		
	23 41 33 00-0012	EA		12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete 110.20		17.52
				<i>For Removal And Replacement In Existing Equipment, Add</i>	3.50	
				<i>For >10 To 25, Deduct</i>	-2.76	
				<i>For >25 To 50, Deduct</i>	-5.51	
				<i>For >50 To 100, Deduct</i>	-8.27	
				<i>For >100, Deduct</i>	-11.02	
	23 41 33 00-0013	EA		24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete 151.27		21.02
				<i>For Removal And Replacement In Existing Equipment, Add</i>	4.21	
				<i>For >10 To 25, Deduct</i>	-3.78	
				<i>For >25 To 50, Deduct</i>	-7.56	
				<i>For >50 To 100, Deduct</i>	-11.35	
				<i>For >100, Deduct</i>	-15.13	
	23 41 33 00-0014	EA		24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete 228.51		24.53
				<i>For Removal And Replacement In Existing Equipment, Add</i>	4.91	
				<i>For >10 To 25, Deduct</i>	-5.71	
				<i>For >25 To 50, Deduct</i>	-11.43	
				<i>For >50 To 100, Deduct</i>	-17.14	
				<i>For >100, Deduct</i>	-22.85	
	23 41 33 00-0015	EA		36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete 292.44		28.03
				<i>For Removal And Replacement In Existing Equipment, Add</i>	5.61	
				<i>For >10 To 25, Deduct</i>	-7.31	
				<i>For >25 To 50, Deduct</i>	-14.62	
				<i>For >50 To 100, Deduct</i>	-21.93	
				<i>For >100, Deduct</i>	-29.24	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 41 33 00-0016	EA	8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	103.12	14.02
		<i>For Removal And Replacement In Existing Equipment, Add</i>	2.80	
		<i>For >10 To 25, Deduct</i>	-2.58	
		<i>For >25 To 50, Deduct</i>	-5.16	
		<i>For >50 To 100, Deduct</i>	-7.73	
		<i>For >100, Deduct</i>	-10.31	
23 41 33 00-0017	EA	12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete	136.80	18.92
		<i>For Removal And Replacement In Existing Equipment, Add</i>	3.78	
		<i>For >10 To 25, Deduct</i>	-3.42	
		<i>For >25 To 50, Deduct</i>	-6.84	
		<i>For >50 To 100, Deduct</i>	-10.26	
		<i>For >100, Deduct</i>	-13.68	
23 41 33 00-0018	EA	24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete	182.98	22.43
		<i>For Removal And Replacement In Existing Equipment, Add</i>	4.49	
		<i>For >10 To 25, Deduct</i>	-4.57	
		<i>For >25 To 50, Deduct</i>	-9.15	
		<i>For >50 To 100, Deduct</i>	-13.72	
		<i>For >100, Deduct</i>	-18.30	
23 41 33 00-0019	EA	24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete	214.79	26.28
		<i>For Removal And Replacement In Existing Equipment, Add</i>	5.26	
		<i>For >10 To 25, Deduct</i>	-5.37	
		<i>For >25 To 50, Deduct</i>	-10.74	
		<i>For >50 To 100, Deduct</i>	-16.11	
		<i>For >100, Deduct</i>	-21.48	
23 41 33 00-0020	EA	24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete	245.21	29.44
		<i>For Removal And Replacement In Existing Equipment, Add</i>	5.89	
		<i>For >10 To 25, Deduct</i>	-6.13	
		<i>For >25 To 50, Deduct</i>	-12.26	
		<i>For >50 To 100, Deduct</i>	-18.39	
		<i>For >100, Deduct</i>	-24.52	
23 41 33 00-0021	EA	12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete	167.77	21.02
		<i>For Removal And Replacement In Existing Equipment, Add</i>	4.21	
		<i>For >10 To 25, Deduct</i>	-4.19	
		<i>For >25 To 50, Deduct</i>	-8.39	
		<i>For >50 To 100, Deduct</i>	-12.58	
		<i>For >100, Deduct</i>	-16.78	
23 41 33 00-0022	EA	24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete	224.54	24.53
		<i>For Removal And Replacement In Existing Equipment, Add</i>	4.91	
		<i>For >10 To 25, Deduct</i>	-5.61	
		<i>For >25 To 50, Deduct</i>	-11.23	
		<i>For >50 To 100, Deduct</i>	-16.84	
		<i>For >100, Deduct</i>	-22.45	
23 41 33 00-0023	EA	24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete	268.12	28.03
		<i>For Removal And Replacement In Existing Equipment, Add</i>	5.61	
		<i>For >10 To 25, Deduct</i>	-6.70	
		<i>For >25 To 50, Deduct</i>	-13.41	
		<i>For >50 To 100, Deduct</i>	-20.11	
		<i>For >100, Deduct</i>	-26.81	
23 41 33 00-0024	EA	24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete	330.53	35.04
		<i>For Removal And Replacement In Existing Equipment, Add</i>	7.01	
		<i>For >10 To 25, Deduct</i>	-8.26	
		<i>For >25 To 50, Deduct</i>	-16.53	
		<i>For >50 To 100, Deduct</i>	-24.79	
		<i>For >100, Deduct</i>	-33.05	
23 41 33 00-0025		High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal <small>(23 41 33)</small>		
		Note: Nominal sizes.		
23 41 33 00-0026	EA	12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	335.30	104.54
23 41 33 00-0027	EA	24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	630.52	207.78
23 41 33 00-0028	EA	24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	639.11	207.78
23 41 33 00-0029	EA	24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	644.83	207.78
23 41 33 00-0030	EA	24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	684.90	207.78
23 41 33 00-0031	EA	24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	734.99	207.78
23 41 33 00-0032	EA	48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,226.69	416.87
23 41 33 00-0033	EA	48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,348.34	416.87
23 41 33 00-0034	EA	48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,502.90	416.87
23 41 33 00-0035	EA	12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	359.63	104.54
23 41 33 00-0036	EA	24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	672.02	207.78
23 41 33 00-0037	EA	24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	682.04	207.78
23 41 33 00-0038	EA	24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	689.19	207.78
23 41 33 00-0039	EA	24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	736.42	207.78
23 41 33 00-0040	EA	24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	799.39	207.78
23 41 33 00-0041	EA	48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,326.87	416.87
23 41 33 00-0042	EA	48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,478.57	416.87
23 41 33 00-0043	EA	48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,670.34	416.87
23 41 33 00-0044		Filter, Bag Type, 90-95% Efficiency <small>(23 41 33)</small>		
23 41 33 00-0045	EA	0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency	313.70	135.51
23 41 33 00-0046	EA	1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency	353.75	135.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0047 Filter, Bag Type, 80-85% Efficiency ^(23 41 33)						
	23 41 33 00-0048	EA		0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency.....	309.11	135.51
	23 41 33 00-0049	EA		1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency.....	338.65	135.51
23 42 Gas-Phase Air Filtration ^(23 40)						
23 42 13 Activated-Carbon Air Filtration ^(23 42)						
	23 42 13 00-0001	EA		12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	46.24	10.51
	23 42 13 00-0002	EA		16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	46.74	10.51
	23 42 13 00-0003	EA		16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	47.04	10.51
	23 42 13 00-0004	EA		20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	47.04	10.51
	23 42 13 00-0005	EA		20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	50.80	10.51
	23 42 13 00-0006	EA		24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter.....	56.97	10.51
	23 42 13 00-0007	EA		12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	58.10	11.92
	23 42 13 00-0008	EA		16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	58.52	11.92
	23 42 13 00-0009	EA		16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	58.88	11.92
	23 42 13 00-0010	EA		20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	58.88	11.92
	23 42 13 00-0011	EA		20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	63.03	11.92
	23 42 13 00-0012	EA		24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter.....	74.59	11.92
	23 42 13 00-0013	EA		16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	29.07	10.51
	23 42 13 00-0014	EA		16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	30.85	10.51
	23 42 13 00-0015	EA		20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter.....	30.92	10.51
	23 42 13 00-0016	EA		20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter.....	33.26	10.51
	23 42 13 00-0017	EA		24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter.....	35.33	10.51
	23 42 13 00-0018	EA		16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	33.60	11.92
	23 42 13 00-0019	EA		16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	36.71	11.92
	23 42 13 00-0020	EA		20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter.....	37.37	11.92
	23 42 13 00-0021	EA		20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	41.23	11.92
	23 42 13 00-0022	EA		24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter.....	43.69	11.92
	23 42 13 00-0023	EA		24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter.....	70.50	12.61
23 43 Electronic Air Cleaners ^(23 40)						
23 43 23 Self-Contained Electronic Air Cleaners ^(23 43)						
23 43 23 00-0001 Stationary Floor, Room Air Purifier ^(23 43 23)						
	23 43 23 00-0002	EA		Stationary Floor Room Air Purifier, Up to 390 SF (Blueair Pro M).....	929.30	
	23 43 23 00-0003	EA		Stationary Floor Room Air Purifier, Up to 780 SF (Blueair Pro L).....	1,293.13	
	23 43 23 00-0004	EA		Stationary Floor Room Air Purifier, Up to 1,180 SF (Blueair Pro XL).....	3,268.22	
	23 43 23 00-0005	EA		Stationary Floor Room Air Purifier, Up to 550 SF (Delos Compact).....	733.10	
	23 43 23 00-0006	EA		Stationary Floor Room Air Purifier, Up to 1,125 SF (Delos 468 Ultrafine).....	1,317.83	
	23 43 23 00-0007	EA		Stationary Floor Room Air Purifier, Up to 3,500 SF (Delos 980P Commercial).....	5,216.03	
23 43 23 00-0008 Surface Mounted, Room Air Purifier ^(23 43 23)						
	23 43 23 00-0009	EA		Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F114A1067).....	2,544.41	
	23 43 23 00-0010	EA		Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F115A1064).....	3,484.46	
	23 43 23 00-0011	EA		Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F111A1063W-3S).....	3,963.35	
23 43 23 00-0012 Suspension Ceiling Mounted, Room Air Purifier ^(23 43 23)						
	23 43 23 00-0013	EA		2' x 4' Suspension Ceiling Mounted, Air Purification System (Armstrong VidaShield UV24).....	3,208.32	
23 50 Central Heating Equipment ⁽²³⁾						
Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.						
23 51 Breechings, Chimneys, and Stacks ^(23 50)						
23 51 13 Draft Control Devices ^(23 51)						
23 51 13 13 Draft-Induction Fans ^(23 51 13)						
23 51 13 13-0001 Vertical Discharge Fans ^(23 51 13 13)						
Note: Includes chimney adapter. Excludes wiring.						
23 51 13 13-0002 Axial Vane Vertical Discharge Fans ^(23 51 13 13-0001)						
	23 51 13 13-0003	EA		450 CFM Vertical Discharge Chimney Fan, Axial Vane.....	2,715.01	283.93
	23 51 13 13-0004	EA		950 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,069.70	309.74
	23 51 13 13-0005	EA		1,400 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,664.63	342.01
	23 51 13 13-0006	EA		1,800 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,755.43	396.86
23 51 13 13-0007 Centrifugal Impeller Vertical Discharge Fans ^(23 51 13 13-0001)						
	23 51 13 13-0008	EA		700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	3,242.42	309.74
	23 51 13 13-0009	EA		1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	3,929.99	342.01
	23 51 13 13-0010	EA		2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,073.47	400.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 13-0011	EA		3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,991.22	448.48
23 51 13 13-0012			Accessories For Vertical Discharge Fans (23 51 13 13-0001)		
23 51 13 13-0013	EA		Modulating Fan Controller And Sensor.....	420.93	96.79
23 51 13 16			Vent Dampers (23 51 13)		
23 51 13 16-0001			Flue Shutter Draft Control Damper, Parallel Blade (23 51 13 16)		
23 51 13 16-0002	EA		3" Round Flue Shutter Draft Control Damper.....	861.52	57.31
23 51 13 16-0003	EA		4" Round Flue Shutter Draft Control Damper.....	942.72	60.79
23 51 13 16-0004	EA		5" Round Flue Shutter Draft Control Damper.....	1,038.39	64.53
23 51 13 16-0005	EA		6" Round Flue Shutter Draft Control Damper.....	1,109.28	68.82
23 51 13 16-0006	EA		7" Round Flue Shutter Draft Control Damper.....	1,209.81	73.72
23 51 13 16-0007	EA		8" Round Flue Shutter Draft Control Damper.....	1,286.18	79.37
23 51 13 16-0008	EA		10" Round Flue Shutter Draft Control Damper.....	1,420.42	86.06
23 51 13 16-0009	EA		12" Round Flue Shutter Draft Control Damper.....	1,559.13	93.85
23 51 13 16-0010	EA		14" Round Flue Shutter Draft Control Damper.....	1,739.14	98.41
23 51 13 16-0011	EA		16" Round Flue Shutter Draft Control Damper.....	1,866.02	103.24
23 51 13 16-0012	EA		18" Round Flue Shutter Draft Control Damper.....	2,034.63	108.41
23 51 13 16-0013	EA		20" Round Flue Shutter Draft Control Damper.....	2,448.87	171.65
23 51 13 16-0014	EA		22" Round Flue Shutter Draft Control Damper.....	2,679.87	182.30
23 51 13 16-0015	EA		24" Round Flue Shutter Draft Control Damper.....	2,900.13	193.59
23 51 13 16-0016	EA		26" Round Flue Shutter Draft Control Damper.....	2,952.58	200.05
23 51 13 16-0017	EA		28" Round Flue Shutter Draft Control Damper.....	3,045.71	206.50
23 51 13 16-0018	EA		30" Round Flue Shutter Draft Control Damper.....	3,137.74	219.40
23 51 13 16-0019	EA		32" Round Flue Shutter Draft Control Damper.....	3,271.37	225.71
23 51 13 16-0020	EA		34" Round Flue Shutter Draft Control Damper.....	3,416.71	238.61
23 51 13 16-0021	EA		36" Round Flue Shutter Draft Control Damper.....	3,588.59	258.12
23 51 13 16-0022	EA		38" Round Flue Shutter Draft Control Damper.....	3,766.03	266.98
23 51 13 16-0023	EA		40" Round Flue Shutter Draft Control Damper.....	3,925.64	271.03
23 51 13 16-0024	EA		42" Round Flue Shutter Draft Control Damper.....	4,118.06	283.93
23 51 13 16-0025	EA		44" Round Flue Shutter Draft Control Damper.....	4,311.51	296.84
23 51 13 16-0026	EA		46" Round Flue Shutter Draft Control Damper.....	4,505.48	309.74
23 51 13 16-0027	EA		48" Round Flue Shutter Draft Control Damper.....	4,698.66	322.65
23 51 13 19			Barometric Dampers (23 51 13)		
23 51 13 19-0001			Barometric Dampers (23 51 13 19)		
23 51 13 19-0002	EA		6" x 6" Barometric Damper.....	380.83	11.20
23 51 13 19-0003	EA		12" x 12" Barometric Damper.....	549.83	15.40
23 51 13 19-0004	EA		18" x 18" Barometric Damper.....	741.07	23.79
23 51 13 19-0005	EA		24" x 24" Barometric Damper.....	905.96	44.80
23 51 13 19-0006	EA		6" Diameter Barometric Damper.....	193.20	11.20
			<i>For Stainless Steel, Add</i>	194.69	
23 51 13 19-0007	EA		7" Diameter Barometric Damper.....	228.31	12.59
			<i>For Stainless Steel, Add</i>	231.30	
23 51 13 19-0008	EA		8" Diameter Barometric Damper.....	264.93	13.99
			<i>For Stainless Steel, Add</i>	268.23	
23 51 13 19-0009	EA		9" Diameter Barometric Damper.....	322.95	13.99
			<i>For Stainless Steel, Add</i>	339.78	
23 51 13 19-0010	EA		10" Diameter Barometric Damper.....	420.69	16.80
			<i>For Stainless Steel, Add</i>	462.92	
23 51 13 19-0011	EA		12" Diameter Barometric Damper.....	531.25	18.20
			<i>For Stainless Steel, Add</i>	597.04	
23 51 13 19-0012	EA		14" Diameter Barometric Damper.....	664.46	19.60
			<i>For Stainless Steel, Add</i>	761.44	
23 51 13 19-0013	EA		15" Diameter Barometric Damper.....	790.86	20.99
			<i>For Stainless Steel, Add</i>	915.19	
23 51 13 19-0014	EA		16" Diameter Barometric Damper.....	915.31	23.79
			<i>For Stainless Steel, Add</i>	1,068.60	
23 51 13 19-0015	EA		18" Diameter Barometric Damper.....	1,199.00	25.20
			<i>For Stainless Steel, Add</i>	1,427.69	
23 51 13 19-0016	EA		20" Diameter Barometric Damper.....	1,424.07	28.00
			<i>For Stainless Steel, Add</i>	1,708.89	
23 51 13 19-0017	EA		24" Diameter Barometric Damper.....	1,711.93	28.00
			<i>For Stainless Steel, Add</i>	2,076.63	
23 51 13 19-0018	EA		30" Diameter Barometric Damper.....	2,106.10	32.19
			<i>For Stainless Steel, Add</i>	2,574.16	
23 51 13 19-0019	EA		36" Diameter Barometric Damper.....	2,678.47	33.59
			<i>For Stainless Steel, Add</i>	3,309.63	
23 51 16			Fabricated Breechings and Accessories (23 51)		
23 51 16 00-0001			Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
23 51 16 00-0002			Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	33.84	11.48
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.29	
For 304 Stainless Steel Liner, Add	0.39	
For 2" Wall Instead Of 1", Add	4.42	
For 3" To 4" Wall Instead Of 1", Add	8.07	
23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	35.96	12.14
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.35	
For 304 Stainless Steel Liner, Add	0.48	
For 2" Wall Instead Of 1", Add	4.87	
For 3" To 4" Wall Instead Of 1", Add	8.78	
23 51 16 00-0005 LF 5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	39.47	12.91
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.41	
For 304 Stainless Steel Liner, Add	0.57	
For 2" Wall Instead Of 1", Add	5.46	
For 3" To 4" Wall Instead Of 1", Add	9.78	
23 51 16 00-0006 LF 6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	42.79	13.81
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.48	
For 304 Stainless Steel Liner, Add	0.66	
For 2" Wall Instead Of 1", Add	6.03	
For 3" To 4" Wall Instead Of 1", Add	10.75	
23 51 16 00-0007 LF 7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	48.98	14.71
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.71	
For 304 Stainless Steel Liner, Add	0.97	
For 2" Wall Instead Of 1", Add	7.48	
For 3" To 4" Wall Instead Of 1", Add	13.02	
23 51 16 00-0008 LF 8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	54.43	15.88
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.79	
For 304 Stainless Steel Liner, Add	1.08	
For 2" Wall Instead Of 1", Add	8.32	
For 3" To 4" Wall Instead Of 1", Add	14.48	
23 51 16 00-0009 LF 10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	73.67	17.04
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	1.67	
For 304 Stainless Steel Liner, Add	2.28	
For 2" Wall Instead Of 1", Add	13.44	
For 3" To 4" Wall Instead Of 1", Add	22.32	
23 51 16 00-0010 LF 12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	87.69	18.85
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	2.24	
For 304 Stainless Steel Liner, Add	3.05	
For 2" Wall Instead Of 1", Add	16.91	
For 3" To 4" Wall Instead Of 1", Add	27.72	
23 51 16 00-0011 LF 14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	117.53	19.61
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	3.76	
For 304 Stainless Steel Liner, Add	5.13	
For 2" Wall Instead Of 1", Add	25.43	
For 3" To 4" Wall Instead Of 1", Add	40.60	
23 51 16 00-0012 LF 16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	143.57	20.65
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	5.07	
For 304 Stainless Steel Liner, Add	6.91	
For 2" Wall Instead Of 1", Add	32.79	
For 3" To 4" Wall Instead Of 1", Add	51.76	
23 51 16 00-0013 LF 18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	173.83	21.69
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	6.55	
For 304 Stainless Steel Liner, Add	8.93	
For 2" Wall Instead Of 1", Add	41.20	
For 3" To 4" Wall Instead Of 1", Add	64.53	
23 51 16 00-0014 LF 20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	226.36	34.45
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	7.77	
For 304 Stainless Steel Liner, Add	10.60	
For 2" Wall Instead Of 1", Add	50.90	
For 3" To 4" Wall Instead Of 1", Add	80.61	
23 51 16 00-0015 LF 22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	270.05	36.40
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	9.80	
For 304 Stainless Steel Liner, Add	13.37	
For 2" Wall Instead Of 1", Add	62.65	
For 3" To 4" Wall Instead Of 1", Add	98.56	
23 51 16 00-0016 LF 24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	317.27	38.72
Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	12.08	
For 304 Stainless Steel Liner, Add	16.48	
For 2" Wall Instead Of 1", Add	75.67	
For 3" To 4" Wall Instead Of 1", Add	118.38	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0017	LF		26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	364.13	40.01
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	14.53	
			For 304 Stainless Steel Liner, Add	19.82	
			For 2" Wall Instead Of 1", Add	89.26	
			For 3" To 4" Wall Instead Of 1", Add	138.89	
23 51 16 00-0018	LF		28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	381.28	41.30
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	15.29	
			For 304 Stainless Steel Liner, Add	20.86	
			For 2" Wall Instead Of 1", Add	93.74	
			For 3" To 4" Wall Instead Of 1", Add	145.77	
23 51 16 00-0019	LF		30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	405.47	44.27
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	16.22	
			For 304 Stainless Steel Liner, Add	22.12	
			For 2" Wall Instead Of 1", Add	99.54	
			For 3" To 4" Wall Instead Of 1", Add	154.84	
23 51 16 00-0020	LF		32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	455.67	45.95
			For Aluminum Liner, Add	18.76	
			For 304 Stainless Steel Liner, Add	25.58	
			For 2" Wall Instead Of 1", Add	113.78	
			For 3" To 4" Wall Instead Of 1", Add	176.40	
23 51 16 00-0021	LF		34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	507.69	47.63
			For Aluminum Liner, Add	21.38	
			For 304 Stainless Steel Liner, Add	29.15	
			For 2" Wall Instead Of 1", Add	128.51	
			For 3" To 4" Wall Instead Of 1", Add	198.71	
23 51 16 00-0022	LF		36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	533.95	49.56
			For Aluminum Liner, Add	22.56	
			For 304 Stainless Steel Liner, Add	30.76	
			For 2" Wall Instead Of 1", Add	135.43	
			For 3" To 4" Wall Instead Of 1", Add	209.34	
23 51 16 00-0023	LF		38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	577.50	51.62
			For Aluminum Liner, Add	24.67	
			For 304 Stainless Steel Liner, Add	33.65	
			For 2" Wall Instead Of 1", Add	147.47	
			For 3" To 4" Wall Instead Of 1", Add	227.65	
23 51 16 00-0024	LF		40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	633.90	53.82
			For Aluminum Liner, Add	27.46	
			For 304 Stainless Steel Liner, Add	37.45	
			For 2" Wall Instead Of 1", Add	163.25	
			For 3" To 4" Wall Instead Of 1", Add	251.60	
23 51 16 00-0025	LF		42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	663.18	56.27
			For Aluminum Liner, Add	28.73	
			For 304 Stainless Steel Liner, Add	39.18	
			For 2" Wall Instead Of 1", Add	170.79	
			For 3" To 4" Wall Instead Of 1", Add	263.22	
23 51 16 00-0026	LF		44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	731.32	58.98
			For Aluminum Liner, Add	32.11	
			For 304 Stainless Steel Liner, Add	43.78	
			For 2" Wall Instead Of 1", Add	189.89	
			For 3" To 4" Wall Instead Of 1", Add	292.21	
23 51 16 00-0027	LF		46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	792.45	61.95
			For Aluminum Liner, Add	35.07	
			For 304 Stainless Steel Liner, Add	47.82	
			For 2" Wall Instead Of 1", Add	206.76	
			For 3" To 4" Wall Instead Of 1", Add	317.88	
23 51 16 00-0028	LF		48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	869.39	65.18
			For Aluminum Liner, Add	38.87	
			For 304 Stainless Steel Liner, Add	53.00	
			For 2" Wall Instead Of 1", Add	228.28	
			For 3" To 4" Wall Instead Of 1", Add	350.55	
23 51 16 00-0029			90 Degree Elbows <small>(23 51 16 00-0001)</small>		
23 51 16 00-0030	EA		3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	80.70	22.97
			For Aluminum Liner, Add	1.31	
			For 304 Stainless Steel Liner, Add	1.79	
			For 2" Wall Instead Of 1", Add	12.83	
			For 3" To 4" Wall Instead Of 1", Add	22.09	
23 51 16 00-0031	EA		4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	88.60	24.26
			For Aluminum Liner, Add	1.54	
			For 304 Stainless Steel Liner, Add	2.11	
			For 2" Wall Instead Of 1", Add	14.48	
			For 3" To 4" Wall Instead Of 1", Add	24.74	
23 51 16 00-0032	EA		5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	97.77	25.81
			For Aluminum Liner, Add	1.84	
			For 304 Stainless Steel Liner, Add	2.52	
			For 2" Wall Instead Of 1", Add	16.49	
			For 3" To 4" Wall Instead Of 1", Add	27.94	
23 51 16 00-0033	EA		6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	107.26	27.49
			For Aluminum Liner, Add	2.14	
			For 304 Stainless Steel Liner, Add	2.92	
			For 2" Wall Instead Of 1", Add	18.52	
			For 3" To 4" Wall Instead Of 1", Add	31.20	



Heating, Ventilating, and Air-Conditioning (HVAC)		23
Central Heating Equipment		23 50
Breechings, Chimneys, and Stacks		23 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0034 EA 7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	125.29 2.87 3.91 22.96 38.09	29.42
23 51 16 00-0035 EA 8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	144.66 3.59 4.90 27.52 45.25	31.75
23 51 16 00-0036 EA 10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	236.47 8.26 11.26 53.68 84.84	34.45
23 51 16 00-0037 EA 12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	283.17 10.41 14.20 66.19 103.97	37.55
23 51 16 00-0038 EA 14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	360.16 14.40 19.64 88.38 137.49	39.37
23 51 16 00-0039 EA 16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	437.35 18.39 25.07 110.60 171.05	41.30
23 51 16 00-0040 EA 18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	557.99 24.71 33.69 145.64 223.90	43.49
23 51 16 00-0041 EA 20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	792.45 34.12 46.52 203.30 313.56	68.79
23 51 16 00-0042 EA 22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	1,031.09 46.68 63.66 272.87 418.42	72.91
23 51 16 00-0043 EA 24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	1,160.12 53.15 72.47 309.28 473.61	77.43
23 51 16 00-0044 45 Degree Elbows (23 51 16 00-0001)		
23 51 16 00-0045 EA 3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	71.01 0.75 1.03 9.84 17.63	22.97
23 51 16 00-0046 EA 4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	76.95 0.89 1.21 10.93 19.43	24.26
23 51 16 00-0047 EA 5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	83.56 1.05 1.43 12.16 21.47	25.81
23 51 16 00-0048 EA 6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	91.58 1.25 1.71 13.71 24.01	27.49
23 51 16 00-0049 EA 7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	106.37 1.80 2.45 17.17 29.44	29.42
23 51 16 00-0050 EA 8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	116.91 2.06 2.82 19.20 32.77	31.75

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0051	EA		10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	179.93	34.45
			For Aluminum Liner, Add	5.16	
			For 304 Stainless Steel Liner, Add	7.04	
			For 2" Wall Instead Of 1", Add	36.77	
			For 3" To 4" Wall Instead Of 1", Add	59.45	
23 51 16 00-0052	EA		12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	212.18	37.55
			For Aluminum Liner, Add	6.51	
			For 304 Stainless Steel Liner, Add	8.88	
			For 2" Wall Instead Of 1", Add	44.89	
			For 3" To 4" Wall Instead Of 1", Add	72.02	
23 51 16 00-0053	EA		14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	264.87	39.37
			For Aluminum Liner, Add	9.16	
			For 304 Stainless Steel Liner, Add	12.49	
			For 2" Wall Instead Of 1", Add	59.79	
			For 3" To 4" Wall Instead Of 1", Add	94.60	
23 51 16 00-0054	EA		16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	312.15	41.30
			For Aluminum Liner, Add	11.49	
			For 304 Stainless Steel Liner, Add	15.67	
			For 2" Wall Instead Of 1", Add	73.00	
			For 3" To 4" Wall Instead Of 1", Add	114.67	
23 51 16 00-0055	EA		18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	389.44	43.49
			For Aluminum Liner, Add	15.44	
			For 304 Stainless Steel Liner, Add	21.06	
			For 2" Wall Instead Of 1", Add	95.10	
			For 3" To 4" Wall Instead Of 1", Add	148.08	
23 51 16 00-0056	EA		20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	488.29	68.66
			For Aluminum Liner, Add	17.42	
			For 304 Stainless Steel Liner, Add	23.75	
			For 2" Wall Instead Of 1", Add	112.16	
			For 3" To 4" Wall Instead Of 1", Add	176.83	
23 51 16 00-0057	EA		22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	658.92	72.91
			For Aluminum Liner, Add	26.21	
			For 304 Stainless Steel Liner, Add	35.75	
			For 2" Wall Instead Of 1", Add	161.22	
			For 3" To 4" Wall Instead Of 1", Add	250.94	
23 51 16 00-0058	EA		24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	797.41	77.43
			For Aluminum Liner, Add	33.22	
			For 304 Stainless Steel Liner, Add	45.30	
			For 2" Wall Instead Of 1", Add	200.53	
			For 3" To 4" Wall Instead Of 1", Add	310.47	
23 51 16 00-0059	EA		26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,391.50	80.02
			For Aluminum Liner, Add	65.54	
			For 304 Stainless Steel Liner, Add	89.37	
			For 2" Wall Instead Of 1", Add	377.47	
			For 3" To 4" Wall Instead Of 1", Add	576.20	
23 51 16 00-0060	EA		28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,430.60	82.59
			For Aluminum Liner, Add	67.33	
			For 304 Stainless Steel Liner, Add	91.82	
			For 2" Wall Instead Of 1", Add	387.91	
			For 3" To 4" Wall Instead Of 1", Add	592.18	
23 51 16 00-0061	EA		30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,508.79	87.76
			For Aluminum Liner, Add	70.92	
			For 304 Stainless Steel Liner, Add	96.71	
			For 2" Wall Instead Of 1", Add	408.78	
			For 3" To 4" Wall Instead Of 1", Add	624.14	
23 51 16 00-0062	EA		32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,678.46	90.34
			For Aluminum Liner, Add	79.90	
			For 304 Stainless Steel Liner, Add	108.96	
			For 2" Wall Instead Of 1", Add	458.40	
			For 3" To 4" Wall Instead Of 1", Add	698.88	
23 51 16 00-0063	EA		34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,830.11	95.50
			For Aluminum Liner, Add	87.53	
			For 304 Stainless Steel Liner, Add	119.36	
			For 2" Wall Instead Of 1", Add	501.31	
			For 3" To 4" Wall Instead Of 1", Add	763.90	
23 51 16 00-0064	EA		36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,890.27	103.24
			For Aluminum Liner, Add	89.78	
			For 304 Stainless Steel Liner, Add	122.42	
			For 2" Wall Instead Of 1", Add	515.49	
			For 3" To 4" Wall Instead Of 1", Add	786.13	
23 51 16 00-0065	EA		38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,021.71	106.87
			For Aluminum Liner, Add	96.51	
			For 304 Stainless Steel Liner, Add	131.60	
			For 2" Wall Instead Of 1", Add	553.12	
			For 3" To 4" Wall Instead Of 1", Add	843.02	
23 51 16 00-0066	EA		40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,148.01	108.41
			For Aluminum Liner, Add	103.24	
			For 304 Stainless Steel Liner, Add	140.79	
			For 2" Wall Instead Of 1", Add	590.23	
			For 3" To 4" Wall Instead Of 1", Add	898.89	
23 51 16 00-0067	EA		42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,242.52	113.58
			For Aluminum Liner, Add	107.73	
			For 304 Stainless Steel Liner, Add	146.91	
			For 2" Wall Instead Of 1", Add	616.01	
			For 3" To 4" Wall Instead Of 1", Add	938.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0068 EA 44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,377.83	118.74
For Aluminum Liner, Add	114.47	
For 304 Stainless Steel Liner, Add	156.09	
For 2" Wall Instead Of 1", Add	654.02	
For 3" To 4" Wall Instead Of 1", Add	995.86	
23 51 16 00-0069 EA 46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,553.95	123.90
For Aluminum Liner, Add	123.44	
For 304 Stainless Steel Liner, Add	168.33	
For 2" Wall Instead Of 1", Add	704.28	
For 3" To 4" Wall Instead Of 1", Add	1,071.90	
23 51 16 00-0070 EA 48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe	2,648.47	129.06
For Aluminum Liner, Add	127.93	
For 304 Stainless Steel Liner, Add	174.45	
For 2" Wall Instead Of 1", Add	730.06	
For 3" To 4" Wall Instead Of 1", Add	1,111.20	
23 51 16 00-0071 Tees <small>(23 51 16 00-0001)</small>		
23 51 16 00-0072 EA 3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	110.05	30.59
For Aluminum Liner, Add	1.84	
For 304 Stainless Steel Liner, Add	2.51	
For 2" Wall Instead Of 1", Add	17.70	
For 3" To 4" Wall Instead Of 1", Add	30.38	
23 51 16 00-0073 EA 4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	114.46	31.75
For Aluminum Liner, Add	1.93	
For 304 Stainless Steel Liner, Add	2.63	
For 2" Wall Instead Of 1", Add	18.46	
For 3" To 4" Wall Instead Of 1", Add	31.66	
23 51 16 00-0074 EA 5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	119.33	33.04
For Aluminum Liner, Add	2.02	
For 304 Stainless Steel Liner, Add	2.75	
For 2" Wall Instead Of 1", Add	19.28	
For 3" To 4" Wall Instead Of 1", Add	33.05	
23 51 16 00-0075 EA 6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	126.90	34.45
For Aluminum Liner, Add	2.24	
For 304 Stainless Steel Liner, Add	3.06	
For 2" Wall Instead Of 1", Add	20.85	
For 3" To 4" Wall Instead Of 1", Add	35.58	
23 51 16 00-0076 EA 7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	146.13	35.88
For Aluminum Liner, Add	3.10	
For 304 Stainless Steel Liner, Add	4.22	
For 2" Wall Instead Of 1", Add	25.88	
For 3" To 4" Wall Instead Of 1", Add	43.30	
23 51 16 00-0077 EA 8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	155.85	37.55
For Aluminum Liner, Add	3.41	
For 304 Stainless Steel Liner, Add	4.65	
For 2" Wall Instead Of 1", Add	27.99	
For 3" To 4" Wall Instead Of 1", Add	46.68	
23 51 16 00-0078 EA 10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	266.47	39.37
For Aluminum Liner, Add	9.25	
For 304 Stainless Steel Liner, Add	12.61	
For 2" Wall Instead Of 1", Add	60.27	
For 3" To 4" Wall Instead Of 1", Add	95.33	
23 51 16 00-0079 EA 12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	305.62	41.30
For Aluminum Liner, Add	11.13	
For 304 Stainless Steel Liner, Add	15.18	
For 2" Wall Instead Of 1", Add	71.04	
For 3" To 4" Wall Instead Of 1", Add	111.73	
23 51 16 00-0080 EA 14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	444.42	45.95
For Aluminum Liner, Add	18.14	
For 304 Stainless Steel Liner, Add	24.73	
For 2" Wall Instead Of 1", Add	110.39	
For 3" To 4" Wall Instead Of 1", Add	171.32	
23 51 16 00-0081 EA 16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	595.84	51.62
For Aluminum Liner, Add	25.68	
For 304 Stainless Steel Liner, Add	35.01	
For 2" Wall Instead Of 1", Add	152.95	
For 3" To 4" Wall Instead Of 1", Add	235.88	
23 51 16 00-0082 EA 18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	735.09	58.98
For Aluminum Liner, Add	32.32	
For 304 Stainless Steel Liner, Add	44.07	
For 2" Wall Instead Of 1", Add	191.04	
For 3" To 4" Wall Instead Of 1", Add	293.93	
23 51 16 00-0083 EA 20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	973.75	72.91
For Aluminum Liner, Add	43.54	
For 304 Stainless Steel Liner, Add	59.38	
For 2" Wall Instead Of 1", Add	255.71	
For 3" To 4" Wall Instead Of 1", Add	392.67	
23 51 16 00-0084 EA 22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	1,225.66	95.24
For Aluminum Liner, Add	54.32	
For 304 Stainless Steel Liner, Add	74.07	
For 2" Wall Instead Of 1", Add	320.08	
For 3" To 4" Wall Instead Of 1", Add	492.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0085 EA 24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,402.46	100.67
For Aluminum Liner, Add	63.29	
For 304 Stainless Steel Liner, Add	86.31	
For 2" Wall Instead Of 1", Add	370.40	
For 3" To 4" Wall Instead Of 1", Add	568.19	
23 51 16 00-0086 EA 26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,903.44	108.41
For Aluminum Liner, Add	89.78	
For 304 Stainless Steel Liner, Add	122.42	
For 2" Wall Instead Of 1", Add	516.81	
For 3" To 4" Wall Instead Of 1", Add	788.77	
23 51 16 00-0087 EA 28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,117.89	112.67
For Aluminum Liner, Add	101.00	
For 304 Stainless Steel Liner, Add	137.73	
For 2" Wall Instead Of 1", Add	579.06	
For 3" To 4" Wall Instead Of 1", Add	882.67	
23 51 16 00-0088 EA 30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,296.41	118.74
For Aluminum Liner, Add	109.98	
For 304 Stainless Steel Liner, Add	149.97	
For 2" Wall Instead Of 1", Add	629.56	
For 3" To 4" Wall Instead Of 1", Add	959.18	
23 51 16 00-0089 EA 32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,635.69	123.90
For Aluminum Liner, Add	127.93	
For 304 Stainless Steel Liner, Add	174.45	
For 2" Wall Instead Of 1", Add	728.78	
For 3" To 4" Wall Instead Of 1", Add	1,108.65	
23 51 16 00-0090 EA 34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,689.49	129.06
For Aluminum Liner, Add	130.18	
For 304 Stainless Steel Liner, Add	177.51	
For 2" Wall Instead Of 1", Add	742.32	
For 3" To 4" Wall Instead Of 1", Add	1,129.61	
23 51 16 00-0091 EA 36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,119.26	137.71
For Aluminum Liner, Add	152.62	
For 304 Stainless Steel Liner, Add	208.12	
For 2" Wall Instead Of 1", Add	866.91	
For 3" To 4" Wall Instead Of 1", Add	1,317.58	
23 51 16 00-0092 EA 38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,203.06	154.87
For Aluminum Liner, Add	154.87	
For 304 Stainless Steel Liner, Add	211.18	
For 2" Wall Instead Of 1", Add	883.45	
For 3" To 4" Wall Instead Of 1", Add	1,344.54	
23 51 16 00-0093 EA 40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,503.17	177.07
For Aluminum Liner, Add	168.33	
For 304 Stainless Steel Liner, Add	229.54	
For 2" Wall Instead Of 1", Add	962.43	
For 3" To 4" Wall Instead Of 1", Add	1,465.78	
23 51 16 00-0094 EA 42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,862.47	206.50
For Aluminum Liner, Add	184.04	
For 304 Stainless Steel Liner, Add	250.97	
For 2" Wall Instead Of 1", Add	1,055.49	
For 3" To 4" Wall Instead Of 1", Add	1,609.05	
23 51 16 00-0095 EA 44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,212.18	232.31
For Aluminum Liner, Add	199.75	
For 304 Stainless Steel Liner, Add	272.39	
For 2" Wall Instead Of 1", Add	1,147.59	
For 3" To 4" Wall Instead Of 1", Add	1,750.41	
23 51 16 00-0096 EA 46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,598.87	240.06
For Aluminum Liner, Add	219.95	
For 304 Stainless Steel Liner, Add	299.94	
For 2" Wall Instead Of 1", Add	1,259.72	
For 3" To 4" Wall Instead Of 1", Add	1,919.56	
23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,863.29	247.79
For Aluminum Liner, Add	233.42	
For 304 Stainless Steel Liner, Add	318.30	
For 2" Wall Instead Of 1", Add	1,335.13	
For 3" To 4" Wall Instead Of 1", Add	2,033.66	
23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)		
23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	57.54	17.94
For Aluminum Liner, Add	0.70	
For 304 Stainless Steel Liner, Add	0.95	
For 2" Wall Instead Of 1", Add	8.28	
For 3" To 4" Wall Instead Of 1", Add	14.67	
23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	60.27	18.85
For Aluminum Liner, Add	0.73	
For 304 Stainless Steel Liner, Add	1.00	
For 2" Wall Instead Of 1", Add	8.69	
For 3" To 4" Wall Instead Of 1", Add	15.38	
23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	74.72	20.65
For Aluminum Liner, Add	1.27	
For 304 Stainless Steel Liner, Add	1.73	
For 2" Wall Instead Of 1", Add	12.09	
For 3" To 4" Wall Instead Of 1", Add	20.72	



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central Heating Equipment	23 50
Breechings, Chimneys, and Stacks	23 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	80.40 1.27 1.73 12.66 21.86	22.97
23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	94.69 1.87 2.55 16.28 27.45	24.26
23 51 16 00-0104 EA 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	109.42 2.47 3.37 19.92 33.11	25.81
23 51 16 00-0105 EA 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	231.22 8.66 11.81 54.63 85.62	29.42
23 51 16 00-0106 EA 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	415.36 17.78 24.24 106.18 163.87	36.91
23 51 16 00-0107 EA 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	747.21 35.01 47.75 202.04 308.59	44.27
23 51 16 00-0108 EA 24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	1,232.21 59.25 80.80 338.69 515.77	61.95
23 51 16 00-0109 EA 26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	1,795.26 89.78 122.42 505.99 767.13	65.18
23 51 16 00-0110 EA 28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	2,008.43 101.00 137.73 568.11 860.77	68.79
23 51 16 00-0111 EA 30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	2,263.48 114.47 156.09 642.59 972.99	72.91
23 51 16 00-0112 EA 32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	2,397.28 121.20 165.27 680.45 1,030.36	77.43
23 51 16 00-0113 EA 34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	2,532.61 127.93 174.45 718.47 1,088.03	82.59
23 51 16 00-0114 EA 36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	2,710.42 136.91 186.70 768.90 1,164.40	88.53
23 51 16 00-0115 Wall Thimbles <small>(23 51 16 00-0001)</small>		
23 51 16 00-0116 EA 3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	25.57 0.08 0.11 2.85 5.48	9.68
23 51 16 00-0117 EA 4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	32.58 0.08 0.11 3.56 6.89	12.39
23 51 16 00-0118 EA 4" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe <i>For Aluminum Liner, Add</i> <i>For 304 Stainless Steel Liner, Add</i> <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	43.46 0.10 0.14 4.71 9.15	16.64

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0119	EA		7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	54.22	20.65
			<i>For Aluminum Liner, Add</i>	0.14	
			<i>For 304 Stainless Steel Liner, Add</i>	0.20	
			<i>For 2" Wall Instead Of 1", Add</i>	5.94	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	11.49	
23 51 16 00-0120	EA		10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	76.38	27.87
			<i>For Aluminum Liner, Add</i>	0.37	
			<i>For 304 Stainless Steel Liner, Add</i>	0.50	
			<i>For 2" Wall Instead Of 1", Add</i>	8.98	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	16.95	
23 51 16 00-0121	EA		12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	95.94	34.59
			<i>For Aluminum Liner, Add</i>	0.52	
			<i>For 304 Stainless Steel Liner, Add</i>	0.71	
			<i>For 2" Wall Instead Of 1", Add</i>	11.49	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	21.56	
23 51 16 00-0122	EA		14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	119.29	41.30
			<i>For Aluminum Liner, Add</i>	0.88	
			<i>For 304 Stainless Steel Liner, Add</i>	1.20	
			<i>For 2" Wall Instead Of 1", Add</i>	15.14	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.87	
23 51 16 00-0123	EA		18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	151.32	49.05
			<i>For Aluminum Liner, Add</i>	1.58	
			<i>For 304 Stainless Steel Liner, Add</i>	2.15	
			<i>For 2" Wall Instead Of 1", Add</i>	20.88	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	37.44	
23 51 16 00-0124	EA		22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe	193.26	54.21
			<i>For Aluminum Liner, Add</i>	3.18	
			<i>For 304 Stainless Steel Liner, Add</i>	4.33	
			<i>For 2" Wall Instead Of 1", Add</i>	30.88	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	53.09	
23 51 16 00-0125			Adjustable Roof Flashing <small>(23 51 16 00-0001)</small>		
23 51 16 00-0126	EA		3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	66.70	22.97
			<i>For Aluminum Liner, Add</i>	0.52	
			<i>For 304 Stainless Steel Liner, Add</i>	0.70	
			<i>For 2" Wall Instead Of 1", Add</i>	8.55	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.69	
23 51 16 00-0127	EA		4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	72.86	24.26
			<i>For Aluminum Liner, Add</i>	0.66	
			<i>For 304 Stainless Steel Liner, Add</i>	0.91	
			<i>For 2" Wall Instead Of 1", Add</i>	9.70	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.59	
23 51 16 00-0128	EA		6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	89.02	27.49
			<i>For Aluminum Liner, Add</i>	1.11	
			<i>For 304 Stainless Steel Liner, Add</i>	1.52	
			<i>For 2" Wall Instead Of 1", Add</i>	12.95	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.86	
23 51 16 00-0129	EA		8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	107.04	31.75
			<i>For Aluminum Liner, Add</i>	1.52	
			<i>For 304 Stainless Steel Liner, Add</i>	2.08	
			<i>For 2" Wall Instead Of 1", Add</i>	16.24	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	28.33	
23 51 16 00-0130	EA		10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	161.99	34.45
			<i>For Aluminum Liner, Add</i>	4.17	
			<i>For 304 Stainless Steel Liner, Add</i>	5.69	
			<i>For 2" Wall Instead Of 1", Add</i>	31.38	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	51.37	
23 51 16 00-0131	EA		12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	190.13	37.55
			<i>For Aluminum Liner, Add</i>	5.30	
			<i>For 304 Stainless Steel Liner, Add</i>	7.22	
			<i>For 2" Wall Instead Of 1", Add</i>	38.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	62.10	
23 51 16 00-0132	EA		14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	221.58	41.30
			<i>For Aluminum Liner, Add</i>	6.51	
			<i>For 304 Stainless Steel Liner, Add</i>	8.88	
			<i>For 2" Wall Instead Of 1", Add</i>	45.83	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	73.90	
23 51 16 00-0133	EA		16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	261.78	45.95
			<i>For Aluminum Liner, Add</i>	8.08	
			<i>For 304 Stainless Steel Liner, Add</i>	11.02	
			<i>For 2" Wall Instead Of 1", Add</i>	55.56	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	89.08	
23 51 16 00-0134	EA		18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	382.12	51.62
			<i>For Aluminum Liner, Add</i>	13.92	
			<i>For 304 Stainless Steel Liner, Add</i>	18.98	
			<i>For 2" Wall Instead Of 1", Add</i>	88.81	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	139.68	
23 51 16 00-0135	EA		20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	429.98	68.79
			<i>For Aluminum Liner, Add</i>	14.18	
			<i>For 304 Stainless Steel Liner, Add</i>	19.34	
			<i>For 2" Wall Instead Of 1", Add</i>	94.58	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	150.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0136 EA 22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	547.76	88.53
<i>For Aluminum Liner, Add</i>	17.96	
<i>For 304 Stainless Steel Liner, Add</i>	24.48	
<i>For 2" Wall Instead Of 1", Add</i>	120.07	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	191.17	
23 51 16 00-0137 EA 24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	649.87	103.24
<i>For Aluminum Liner, Add</i>	21.55	
<i>For 304 Stainless Steel Liner, Add</i>	29.38	
<i>For 2" Wall Instead Of 1", Add</i>	143.34	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	227.91	
23 51 16 00-0138 Galvanized Storm Collars <small>(23 51 16 00-0001)</small>		
23 51 16 00-0139 EA 3" Round Galvanized Storm Collar, Double Wall	26.83	9.68
<i>For Aluminum Liner, Add</i>	0.15	
<i>For 304 Stainless Steel Liner, Add</i>	0.20	
<i>For 2" Wall Instead Of 1", Add</i>	3.23	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.04	
23 51 16 00-0140 EA 4" Round Galvanized Storm Collar, Double Wall	34.08	12.39
<i>For Aluminum Liner, Add</i>	0.17	
<i>For 304 Stainless Steel Liner, Add</i>	0.23	
<i>For 2" Wall Instead Of 1", Add</i>	4.03	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.59	
23 51 16 00-0141 EA 5" Round Galvanized Storm Collar, Double Wall	40.01	14.45
<i>For Aluminum Liner, Add</i>	0.21	
<i>For 304 Stainless Steel Liner, Add</i>	0.29	
<i>For 2" Wall Instead Of 1", Add</i>	4.78	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.97	
23 51 16 00-0142 EA 6" Round Galvanized Storm Collar, Double Wall	45.94	16.52
<i>For Aluminum Liner, Add</i>	0.26	
<i>For 304 Stainless Steel Liner, Add</i>	0.35	
<i>For 2" Wall Instead Of 1", Add</i>	5.52	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.35	
23 51 16 00-0143 EA 7" Or 8" Round Galvanized Storm Collar, Double Wall	57.81	20.65
<i>For Aluminum Liner, Add</i>	0.34	
<i>For 304 Stainless Steel Liner, Add</i>	0.46	
<i>For 2" Wall Instead Of 1", Add</i>	7.02	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	13.11	
23 51 16 00-0144 EA 10" Round Galvanized Storm Collar, Double Wall	79.38	27.87
<i>For Aluminum Liner, Add</i>	0.53	
<i>For 304 Stainless Steel Liner, Add</i>	0.73	
<i>For 2" Wall Instead Of 1", Add</i>	9.88	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	18.30	
23 51 16 00-0145 EA 12" Round Galvanized Storm Collar, Double Wall	98.12	34.59
<i>For Aluminum Liner, Add</i>	0.64	
<i>For 304 Stainless Steel Liner, Add</i>	0.87	
<i>For 2" Wall Instead Of 1", Add</i>	12.14	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.53	
23 51 16 00-0146 EA 14" Or 16" Round Galvanized Storm Collar, Double Wall	123.00	41.30
<i>For Aluminum Liner, Add</i>	1.09	
<i>For 304 Stainless Steel Liner, Add</i>	1.48	
<i>For 2" Wall Instead Of 1", Add</i>	16.25	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	29.54	
23 51 16 00-0147 EA 18" Or 20" Round Galvanized Storm Collar, Double Wall	158.36	49.05
<i>For Aluminum Liner, Add</i>	1.97	
<i>For 304 Stainless Steel Liner, Add</i>	2.68	
<i>For 2" Wall Instead Of 1", Add</i>	22.99	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	40.61	
23 51 16 00-0148 EA 22" Or 24" Round Galvanized Storm Collar, Double Wall	210.85	54.21
<i>For Aluminum Liner, Add</i>	4.14	
<i>For 304 Stainless Steel Liner, Add</i>	5.65	
<i>For 2" Wall Instead Of 1", Add</i>	36.15	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	61.01	
23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small>		
23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe <small>(23 51 16 00-0149)</small>		
23 51 16 00-0151 LF 4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	42.04	12.14
<i>For 2" Wall Instead Of 1", Add</i>	6.55	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	11.34	
23 51 16 00-0152 LF 5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	45.92	12.91
<i>For 2" Wall Instead Of 1", Add</i>	7.37	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	12.66	
23 51 16 00-0153 LF 6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	50.56	13.81
<i>For 2" Wall Instead Of 1", Add</i>	8.28	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	14.14	
23 51 16 00-0154 45 Degree Elbows <small>(23 51 16 00-0149)</small>		
23 51 16 00-0155 EA 4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	90.99	25.17
<i>For 2" Wall Instead Of 1", Add</i>	14.71	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	25.21	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0156	EA		5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	106.22	29.42
			<i>For 2" Wall Instead Of 1", Add</i>	17.15	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	29.41	
23 51 16 00-0157	EA		6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	125.13	33.30
			<i>For 2" Wall Instead Of 1", Add</i>	20.89	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	35.49	
23 51 16 00-0158	EA		4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	92.39	25.17
			<i>For 2" Wall Instead Of 1", Add</i>	15.13	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	25.84	
23 51 16 00-0159	EA		5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	109.62	29.42
			<i>For 2" Wall Instead Of 1", Add</i>	18.17	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	30.94	
23 51 16 00-0160	EA		6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	127.33	33.30
			<i>For 2" Wall Instead Of 1", Add</i>	21.55	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	36.48	
23 51 16 00-0161			Tees <small>(23 51 16 00-0149)</small>		
23 51 16 00-0162	EA		4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe	149.08	38.20
			<i>For 2" Wall Instead Of 1", Add</i>	25.60	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	43.19	
23 51 16 00-0163	EA		4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe	151.28	38.20
			<i>For 2" Wall Instead Of 1", Add</i>	26.26	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	44.18	
23 51 16 00-0164	EA		5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe	173.79	43.88
			<i>For 2" Wall Instead Of 1", Add</i>	30.20	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	50.78	
23 51 16 00-0165	EA		6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe	198.03	49.18
			<i>For 2" Wall Instead Of 1", Add</i>	34.83	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	58.38	
23 51 16 00-0166			Tops/Caps And Adjustable Flashing <small>(23 51 16 00-0149)</small>		
23 51 16 00-0167	EA		4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe	55.32	12.39
			<i>For 2" Wall Instead Of 1", Add</i>	10.38	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.12	
23 51 16 00-0168	EA		6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe	84.19	16.64
			<i>For 2" Wall Instead Of 1", Add</i>	16.93	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.48	
23 51 16 00-0169	EA		4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe.....	46.71	12.39
			<i>For 2" Wall Instead Of 1", Add</i>	7.80	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	13.25	
23 51 16 00-0170	EA		6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe	76.08	16.64
			<i>For 2" Wall Instead Of 1", Add</i>	14.50	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	23.83	
23 51 16 00-0171			Storm Collars <small>(23 51 16 00-0149)</small>		
23 51 16 00-0172	EA		4" Oval Galvanized Storm Collar, Double Wall	34.08	12.39
			<i>For 2" Wall Instead Of 1", Add</i>	4.03	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.59	
23 51 16 00-0173	EA		5" Oval Galvanized Storm Collar, Double Wall	40.01	14.45
			<i>For 2" Wall Instead Of 1", Add</i>	4.78	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.97	
23 51 16 00-0174	EA		6" Oval Galvanized Storm Collar, Double Wall	45.94	16.52
			<i>For 2" Wall Instead Of 1", Add</i>	5.52	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.35	
23 51 16 00-0175			Round Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small>		
			Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		
23 51 16 00-0176			Round Double Wall Flue/Vent Pipe <small>(23 51 16 00-0175)</small>		
			Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.		
23 51 16 00-0177	LF		6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	108.18	13.81
			<i>For 316 Stainless Steel, Add</i>	11.79	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	7.37	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	14.74	
23 51 16 00-0178	LF		8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	129.73	15.88
			<i>For 316 Stainless Steel, Add</i>	14.40	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	9.00	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	17.99	
23 51 16 00-0179	LF		10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	143.77	17.17
			<i>For 316 Stainless Steel, Add</i>	16.13	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	10.08	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	20.16	
23 51 16 00-0180	LF		12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	161.82	18.72
			<i>For 316 Stainless Steel, Add</i>	18.38	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	11.49	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	22.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0181 LF 14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	181.42	19.61
<i>For 316 Stainless Steel, Add</i>	21.16	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	13.22	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	26.45	
23 51 16 00-0182 LF 16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	191.54	20.65
<i>For 316 Stainless Steel, Add</i>	22.37	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	13.98	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	27.97	
23 51 16 00-0183 LF 18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	211.58	21.82
<i>For 316 Stainless Steel, Add</i>	25.15	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	15.72	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	31.43	
23 51 16 00-0184 LF 20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	266.03	34.45
<i>For 316 Stainless Steel, Add</i>	28.79	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	17.99	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	35.99	
23 51 16 00-0185 LF 24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	328.79	38.72
<i>For 316 Stainless Steel, Add</i>	37.12	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	23.20	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	46.39	
23 51 16 00-0186 LF 28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	369.86	41.30
<i>For 316 Stainless Steel, Add</i>	42.67	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	26.67	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	53.33	
23 51 16 00-0187 LF 32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	413.77	45.82
<i>For 316 Stainless Steel, Add</i>	47.87	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	29.92	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	59.83	
23 51 16 00-0188 LF 36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	459.77	49.56
<i>For 316 Stainless Steel, Add</i>	53.76	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	33.60	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	67.21	
23 51 16 00-0189 LF 42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	524.83	56.40
<i>For 316 Stainless Steel, Add</i>	61.40	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	38.37	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	76.74	
23 51 16 00-0190 LF 48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	614.20	65.31
<i>For 316 Stainless Steel, Add</i>	72.15	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	45.09	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	90.19	
23 51 16 00-0191 90 Degree Elbows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0192 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	489.67	28.52
<i>For 316 Stainless Steel, Add</i>	83.68	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	41.84	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	83.68	
23 51 16 00-0193 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	541.13	31.75
<i>For 316 Stainless Steel, Add</i>	92.35	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	46.18	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	92.35	
23 51 16 00-0194 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	615.11	34.45
<i>For 316 Stainless Steel, Add</i>	105.80	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	52.90	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	105.80	
23 51 16 00-0195 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	694.35	37.55
<i>For 316 Stainless Steel, Add</i>	120.10	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	60.05	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	120.10	
23 51 16 00-0196 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	802.93	39.37
<i>For 316 Stainless Steel, Add</i>	140.92	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	70.46	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	140.92	
23 51 16 00-0197 EA 16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	883.68	41.30
<i>For 316 Stainless Steel, Add</i>	156.09	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	78.05	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	156.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0198	EA		18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,019.19	43.49
			<i>For 316 Stainless Steel, Add</i>	182.11	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	91.05	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	182.11	
23 51 16 00-0199	EA		20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,191.02	68.79
			<i>For 316 Stainless Steel, Add</i>	203.79	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	101.89	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	203.79	
23 51 16 00-0200	EA		24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,461.83	77.43
			<i>For 316 Stainless Steel, Add</i>	253.65	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	126.82	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	253.65	
23 51 16 00-0201	EA		28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,767.41	82.59
			<i>For 316 Stainless Steel, Add</i>	312.18	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	156.09	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	312.18	
23 51 16 00-0202	EA		32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,324.05	88.41
			<i>For 316 Stainless Steel, Add</i>	420.58	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	210.29	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	420.58	
23 51 16 00-0203	EA		36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,642.85	103.24
			<i>For 316 Stainless Steel, Add</i>	476.95	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	238.47	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	476.95	
23 51 16 00-0204	EA		42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,858.61	112.67
			<i>For 316 Stainless Steel, Add</i>	715.42	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	357.71	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	715.42	
23 51 16 00-0205	EA		48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	4,808.19	123.90
			<i>For 316 Stainless Steel, Add</i>	899.69	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	449.85	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	899.69	
23 51 16 00-0206			45 Degree Elbows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0207	EA		6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	331.11	27.49
			<i>For 316 Stainless Steel, Add</i>	52.46	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	26.23	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	52.46	
23 51 16 00-0208	EA		8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	378.53	31.75
			<i>For 316 Stainless Steel, Add</i>	59.83	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	29.92	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	59.83	
23 51 16 00-0209	EA		10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	419.96	34.45
			<i>For 316 Stainless Steel, Add</i>	66.77	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	33.39	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	66.77	
23 51 16 00-0210	EA		12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	477.56	37.55
			<i>For 316 Stainless Steel, Add</i>	76.74	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	38.37	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	76.74	
23 51 16 00-0211	EA		14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	536.27	39.37
			<i>For 316 Stainless Steel, Add</i>	87.58	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	43.79	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	87.58	
23 51 16 00-0212	EA		16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	599.68	41.30
			<i>For 316 Stainless Steel, Add</i>	99.29	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	49.65	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	99.29	
23 51 16 00-0213	EA		18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	670.15	43.49
			<i>For 316 Stainless Steel, Add</i>	112.30	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	56.15	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	112.30	
23 51 16 00-0214	EA		20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	813.81	68.79
			<i>For 316 Stainless Steel, Add</i>	128.34	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	64.17	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	128.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0215 EA 24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,017.41	77.43
<i>For 316 Stainless Steel, Add</i>	164.76	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	82.38	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	164.76	
23 51 16 00-0216 EA 38" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,138.71	82.59
<i>For 316 Stainless Steel, Add</i>	186.44	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	93.22	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	186.44	
23 51 16 00-0217 EA 32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,467.72	88.41
<i>For 316 Stainless Steel, Add</i>	249.31	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	124.66	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	249.31	
23 51 16 00-0218 EA 36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,938.27	103.24
<i>For 316 Stainless Steel, Add</i>	336.03	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	168.02	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	336.03	
23 51 16 00-0219 EA 42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,557.85	112.67
<i>For 316 Stainless Steel, Add</i>	455.27	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	227.63	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	455.27	
23 51 16 00-0220 EA 48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,399.06	123.90
<i>For 316 Stainless Steel, Add</i>	617.86	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	308.93	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	617.86	
23 51 16 00-0221 Tees <small>(23 51 16 00-0175)</small>		
23 51 16 00-0222 EA 6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	361.46	34.45
<i>For 316 Stainless Steel, Add</i>	60.57	
<i>For Tee Cap, Add</i>	85.21	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	27.53	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	55.07	
23 51 16 00-0223 EA 8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	410.35	37.55
<i>For 316 Stainless Steel, Add</i>	69.63	
<i>For Tee Cap, Add</i>	96.14	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	31.65	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	63.30	
23 51 16 00-0224 EA 10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	469.04	39.37
<i>For 316 Stainless Steel, Add</i>	81.56	
<i>For Tee Cap, Add</i>	108.56	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	37.07	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	74.14	
23 51 16 00-0225 EA 12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	536.81	41.30
<i>For 316 Stainless Steel, Add</i>	95.39	
<i>For Tee Cap, Add</i>	122.85	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	43.36	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	86.72	
23 51 16 00-0226 EA 14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	626.35	45.95
<i>For 316 Stainless Steel, Add</i>	112.56	
<i>For Tee Cap, Add</i>	142.48	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	51.16	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	102.33	
23 51 16 00-0227 EA 16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	703.47	51.62
<i>For 316 Stainless Steel, Add</i>	126.39	
<i>For Tee Cap, Add</i>	160.04	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	57.45	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	114.90	
23 51 16 00-0228 EA 18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	819.44	58.98
<i>For 316 Stainless Steel, Add</i>	147.85	
<i>For Tee Cap, Add</i>	186.00	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	67.21	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	134.41	
23 51 16 00-0229 EA 20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	940.97	72.91
<i>For 316 Stainless Steel, Add</i>	166.93	
<i>For Tee Cap, Add</i>	215.52	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	75.88	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	151.76	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0230	EA		24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,201.17	103.24
			<i>For 316 Stainless Steel, Add</i>	207.47	
			<i>For Tee Cap, Add</i>	278.95	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	94.31	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	188.61	
23 51 16 00-0231	EA		28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,452.20	112.67
			<i>For 316 Stainless Steel, Add</i>	257.55	
			<i>For Tee Cap, Add</i>	332.67	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	117.07	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	234.14	
23 51 16 00-0232	EA		32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,914.00	123.90
			<i>For 316 Stainless Steel, Add</i>	352.94	
			<i>For Tee Cap, Add</i>	429.26	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	160.43	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	320.85	
23 51 16 00-0233	EA		36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,132.88	137.71
			<i>For 316 Stainless Steel, Add</i>	393.48	
			<i>For Tee Cap, Add</i>	478.23	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	178.85	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	357.71	
23 51 16 00-0234	EA		42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,388.75	206.50
			<i>For 316 Stainless Steel, Add</i>	631.95	
			<i>For Tee Cap, Add</i>	755.19	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	287.25	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	574.50	
23 51 16 00-0235	EA		48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	4,250.82	247.79
			<i>For 316 Stainless Steel, Add</i>	798.88	
			<i>For Tee Cap, Add</i>	943.09	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	363.13	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	726.26	
23 51 16 00-0236			Bellows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0237	EA		6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	662.80	27.49
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	59.40	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	118.80	
23 51 16 00-0238	EA		8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	723.24	31.75
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	64.39	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	128.78	
23 51 16 00-0239	EA		10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	790.71	34.45
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	70.46	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	140.92	
23 51 16 00-0240	EA		12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	874.29	37.55
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	78.05	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	156.09	
23 51 16 00-0241	EA		14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	976.36	39.37
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	87.80	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	175.60	
23 51 16 00-0242	EA		16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,078.79	41.30
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	97.56	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	195.11	
23 51 16 00-0243	EA		18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,203.47	43.49
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	109.48	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	218.96	
23 51 16 00-0244	EA		20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,407.79	68.79
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	123.57	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	247.14	
23 51 16 00-0245	EA		24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,732.84	77.43
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	153.92	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	307.85	
23 51 16 00-0246	EA		28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,940.88	82.59
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	173.44	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	346.87	
23 51 16 00-0247	EA		32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,215.80	88.53
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	199.45	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	398.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0248 EA 36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,534.47	103.24
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	227.63	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	455.27	
23 51 16 00-0249 EA 42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,208.25	112.67
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	292.67	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	585.34	
23 51 16 00-0250 EA 48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,886.85	123.90
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	357.71	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	715.42	
23 51 16 00-0251 Ventilated Roof Thimbles <small>(23 51 16 00-0175)</small>		
23 51 16 00-0252 EA 6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	447.96	31.75
<i>For 316 Stainless Steel, Add</i>	36.86	
23 51 16 00-0253 EA 8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	488.40	37.55
<i>For 316 Stainless Steel, Add</i>	39.46	
23 51 16 00-0254 EA 10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	534.63	41.30
<i>For 316 Stainless Steel, Add</i>	43.14	
23 51 16 00-0255 EA 12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	578.73	45.95
<i>For 316 Stainless Steel, Add</i>	46.39	
23 51 16 00-0256 EA 14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	730.69	48.65
<i>For 316 Stainless Steel, Add</i>	60.92	
23 51 16 00-0257 EA 16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	658.01	51.62
<i>For 316 Stainless Steel, Add</i>	52.90	
23 51 16 00-0258 EA 18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	707.90	55.11
<i>For 316 Stainless Steel, Add</i>	57.02	
23 51 16 00-0259 EA 20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	804.97	77.43
<i>For 316 Stainless Steel, Add</i>	61.14	
23 51 16 00-0260 EA 24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	903.91	88.41
<i>For 316 Stainless Steel, Add</i>	68.29	
23 51 16 00-0261 EA 28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,029.41	95.24
<i>For 316 Stainless Steel, Add</i>	79.13	
23 51 16 00-0262 EA 32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,146.81	103.12
<i>For 316 Stainless Steel, Add</i>	88.89	
23 51 16 00-0263 EA 36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,285.13	123.77
<i>For 316 Stainless Steel, Add</i>	97.56	
23 51 16 00-0264 EA 42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,633.93	137.58
<i>For 316 Stainless Steel, Add</i>	128.99	
23 51 16 00-0265 EA 48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,012.87	154.74
<i>For 316 Stainless Steel, Add</i>	162.60	
23 51 16 00-0266 Exit Cones <small>(23 51 16 00-0175)</small>		
23 51 16 00-0267 EA 6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	307.26	17.94
23 51 16 00-0268 EA 8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	324.51	19.61
23 51 16 00-0269 EA 10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	348.62	20.65
23 51 16 00-0270 EA 12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	364.35	21.69
23 51 16 00-0271 EA 14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	400.49	22.33
23 51 16 00-0272 EA 16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	436.64	22.84
23 51 16 00-0273 EA 18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	527.22	23.62
23 51 16 00-0274 EA 20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	667.80	44.27
23 51 16 00-0275 EA 24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	834.53	47.63
23 51 16 00-0276 EA 28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	991.08	49.56
23 51 16 00-0277 EA 32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,213.04	51.62
23 51 16 00-0278 EA 36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,376.56	56.40

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0279	EA	42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,730.13	58.98
23 51 16 00-0280	EA	48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,203.58	61.95
23 51 16 00-0281		Vent Top Caps <small>(23 51 16 00-0175)</small>		
23 51 16 00-0282	EA	6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	335.33	17.94
23 51 16 00-0283	EA	8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	387.38	19.61
23 51 16 00-0284	EA	10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	448.31	20.65
23 51 16 00-0285	EA	12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	513.91	21.69
23 51 16 00-0286	EA	14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	597.72	22.33
23 51 16 00-0287	EA	16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	677.36	22.97
23 51 16 00-0288	EA	18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	752.73	23.62
23 51 16 00-0289	EA	20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	912.65	44.27
23 51 16 00-0290	EA	24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,083.84	47.63
23 51 16 00-0291	EA	28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,175.28	49.56
23 51 16 00-0292	EA	32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,332.19	51.62
23 51 16 00-0293	EA	36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,549.85	56.27
23 51 16 00-0294	EA	42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,881.80	58.98
23 51 16 00-0295	EA	48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,181.81	61.95
23 51 16 00-0296		Roof Support Assemblies <small>(23 51 16 00-0175)</small>		
23 51 16 00-0297	EA	6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	509.57	33.04
		<i>For 316 Stainless Steel, Add</i>	85.42	
23 51 16 00-0298	EA	8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	564.46	39.37
		<i>For 316 Stainless Steel, Add</i>	93.22	
23 51 16 00-0299	EA	10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	620.23	43.49
		<i>For 316 Stainless Steel, Add</i>	102.33	
23 51 16 00-0300	EA	12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	663.37	48.52
		<i>For 316 Stainless Steel, Add</i>	108.40	
23 51 16 00-0301	EA	14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	738.24	51.62
		<i>For 316 Stainless Steel, Add</i>	121.84	
23 51 16 00-0302	EA	16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	783.73	55.11
		<i>For 316 Stainless Steel, Add</i>	129.21	
23 51 16 00-0303	EA	18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	841.37	59.11
		<i>For 316 Stainless Steel, Add</i>	138.75	
23 51 16 00-0304	EA	20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	943.60	82.59
		<i>For 316 Stainless Steel, Add</i>	147.42	
23 51 16 00-0305	EA	24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,062.10	95.37
		<i>For 316 Stainless Steel, Add</i>	164.76	
23 51 16 00-0306	EA	28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,222.85	103.24
		<i>For 316 Stainless Steel, Add</i>	192.95	
23 51 16 00-0307	EA	32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,452.22	112.67
		<i>For 316 Stainless Steel, Add</i>	234.14	
23 51 16 00-0308	EA	36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,688.46	137.71
		<i>For 316 Stainless Steel, Add</i>	268.82	
23 51 16 00-0309	EA	42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,490.04	154.87
		<i>For 316 Stainless Steel, Add</i>	420.58	
23 51 16 00-0310	EA	48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,041.69	176.04
		<i>For 316 Stainless Steel, Add</i>	520.30	
23 51 16 00-0311		Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small> Note: With 1" insulation.		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0312	Round Stainless Steel Double Wall Flue/Vent Pipe (23 51 16 00-0311)			
	Note: With 1" insulation.			
23 51 16 00-0313	LF 6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	95.17	13.81	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	6.07		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	12.14		
23 51 16 00-0314	LF 7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	114.95	14.71	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	7.81		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	15.61		
23 51 16 00-0315	LF 8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	130.81	15.88	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	9.11		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	18.21		
23 51 16 00-0316	LF 10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	175.15	17.17	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	13.22		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	26.45		
23 51 16 00-0317	LF 12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	224.74	18.85	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	17.78		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	35.55		
23 51 16 00-0318	LF 14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe	283.43	19.74	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	23.41		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	46.83		
23 51 16 00-0319	90 Degree Elbows (23 51 16 00-0311)			
23 51 16 00-0320	EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	204.34	27.49	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	13.55		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	27.10		
23 51 16 00-0321	EA 7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	225.45	29.42	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	15.18		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	30.35		
23 51 16 00-0322	EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	252.83	31.75	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	17.34		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	34.69		
23 51 16 00-0323	EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	311.55	34.45	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	22.55		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	45.09		
23 51 16 00-0324	EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	369.18	37.55	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	27.53		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	55.07		
23 51 16 00-0325	EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe	427.82	39.37	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	32.95		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	65.91		
23 51 16 00-0326	45 Degree Elbows (23 51 16 00-0311)			
23 51 16 00-0327	EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	170.47	27.49	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	10.16		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	20.32		
23 51 16 00-0328	EA 7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	187.50	29.42	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	11.38		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	22.76		
23 51 16 00-0329	EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	209.50	31.75	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	13.01		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	26.02		
23 51 16 00-0330	EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	255.19	34.45	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	16.91		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	33.82		
23 51 16 00-0331	EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	300.32	37.55	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	20.65		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	41.30		
23 51 16 00-0332	EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe	345.49	39.37	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	24.71		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	49.43		
23 51 16 00-0333	Tees With Tee Caps (23 51 16 00-0311)			
23 51 16 00-0334	EA 6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	324.60	27.49	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	25.58		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	51.16		
23 51 16 00-0335	EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	407.56	29.42	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	33.39		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	66.77		
23 51 16 00-0336	EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	456.59	31.75	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	37.72		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	75.44		
23 51 16 00-0337	EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	617.14	34.45	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	53.11		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	106.23		
23 51 16 00-0338	EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	841.73	37.55	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	74.79		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	149.59		
23 51 16 00-0339	EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe	1,073.82	39.37	
	For 2" Insulated Wall Instead Of 1" Thickness, Add	97.56		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	195.11		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0340 Joist Shields <small>(23 51 16 00-0311)</small>		
23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	146.84	27.49
23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	158.25	29.42
23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	183.43	31.75
23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	225.97	34.45
23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	268.35	37.55
23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe	315.08	39.37
23 51 16 00-0347 Adjustable Roof Flashing <small>(23 51 16 00-0311)</small>		
23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	171.77	27.49
23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	190.75	29.42
23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	207.26	31.75
23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	249.79	34.45
23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	305.28	37.55
23 51 16 00-0353 EA 14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	362.73	39.23
23 51 16 00-0354 Vent Top Caps <small>(23 51 16 00-0311)</small>		
23 51 16 00-0355 EA 6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	155.51	27.49
23 51 16 00-0356 EA 7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	191.83	29.42
23 51 16 00-0357 EA 8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	237.62	31.75
23 51 16 00-0358 EA 10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	370.15	34.45
23 51 16 00-0359 EA 12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	499.30	37.55
23 51 16 00-0360 EA 14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	631.62	39.37
23 51 16 00-0361 Roof Support Assemblies <small>(23 51 16 00-0311)</small>		
23 51 16 00-0362 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	223.70	27.49
23 51 16 00-0363 EA 7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	248.20	29.42
23 51 16 00-0364 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	269.03	31.75
23 51 16 00-0365 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	335.34	34.45
23 51 16 00-0366 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	395.18	37.55
23 51 16 00-0367 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	479.88	39.37
23 51 16 00-0368 Polyvinyl Chloride (PVC) Flue/Vent Accessories <small>(23 51 16)</small>		
23 51 16 00-0369 Concentric Polyvinyl Chloride (PVC) Vent Termination <small>(23 51 16 00-0368)</small>		
23 51 16 00-0370 EA 2" Concentric Polyvinyl Chloride (PVC) Vent Termination	223.65	52.56
23 51 16 00-0371 EA 3" Concentric Polyvinyl Chloride (PVC) Vent Termination	240.59	52.56
23 51 16 00-0372 Polypropylene (PP) Flue/Vent Pipe And Fittings <small>(23 51 16)</small>		
Note: Centrotherm InnoFlue® Vent System		
23 51 16 00-0373 Polypropylene Flue/Vent Rigid Pipe Sections <small>(23 51 16 00-0372)</small>		
Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.		
23 51 16 00-0374 EA 2" x 12" Polypropylene Flue/Vent Rigid Pipe Section	46.63	15.97
23 51 16 00-0375 EA 2" x 24" Polypropylene Flue/Vent Rigid Pipe Section	52.27	16.80
23 51 16 00-0376 EA 2" x 36" Polypropylene Flue/Vent Rigid Pipe Section	59.58	18.68
23 51 16 00-0377 EA 2" x 72" Polypropylene Flue/Vent Rigid Pipe Section	73.32	21.97
23 51 16 00-0378 EA 3" x 12" Polypropylene Flue/Vent Rigid Pipe Section	55.56	18.30
23 51 16 00-0379 EA 3" x 24" Polypropylene Flue/Vent Rigid Pipe Section	65.52	19.27
23 51 16 00-0380 EA 3" x 36" Polypropylene Flue/Vent Rigid Pipe Section	79.15	21.41
23 51 16 00-0381 EA 3" x 72" Polypropylene Flue/Vent Rigid Pipe Section	97.19	25.18
23 51 16 00-0382 EA 4" x 12" Polypropylene Flue/Vent Rigid Pipe Section	88.53	24.21
23 51 16 00-0383 EA 4" x 24" Polypropylene Flue/Vent Rigid Pipe Section	102.85	25.48
23 51 16 00-0384 EA 4" x 36" Polypropylene Flue/Vent Rigid Pipe Section	126.05	28.32
23 51 16 00-0385 EA 4" x 72" Polypropylene Flue/Vent Rigid Pipe Section	161.46	33.31
23 51 16 00-0386 EA 5" x 12" Polypropylene Flue/Vent Rigid Pipe Section	131.22	35.73
23 51 16 00-0387 EA 5" x 24" Polypropylene Flue/Vent Rigid Pipe Section	148.27	37.60
23 51 16 00-0388 EA 5" x 36" Polypropylene Flue/Vent Rigid Pipe Section	188.88	41.79
23 51 16 00-0389 EA 5" x 72" Polypropylene Flue/Vent Rigid Pipe Section	242.70	49.18
23 51 16 00-0390 Polypropylene Flue/Vent Elbows <small>(23 51 16 00-0372)</small>		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0391 EA 2" Polypropylene Flue/Vent 15 Degree Elbow	57.46	19.40
23 51 16 00-0392 EA 3" Polypropylene Flue/Vent 15 Degree Elbow	65.97	20.42
23 51 16 00-0393 EA 4" Polypropylene Flue/Vent 15 Degree Elbow	79.98	21.16
23 51 16 00-0394 EA 5" Polypropylene Flue/Vent 15 Degree Elbow	91.47	22.03
23 51 16 00-0395 EA 2" Polypropylene Flue/Vent 30 Degree Elbow	57.46	19.40
23 51 16 00-0396 EA 3" Polypropylene Flue/Vent 30 Degree Elbow	65.97	20.42
23 51 16 00-0397 EA 4" Polypropylene Flue/Vent 30 Degree Elbow	79.98	21.16
23 51 16 00-0398 EA 5" Polypropylene Flue/Vent 30 Degree Elbow	91.47	22.03
23 51 16 00-0399 EA 2" Polypropylene Flue/Vent 45 Degree Elbow	57.46	19.40
23 51 16 00-0400 EA 3" Polypropylene Flue/Vent 45 Degree Elbow	65.97	20.42
23 51 16 00-0401 EA 4" Polypropylene Flue/Vent 45 Degree Elbow	79.98	21.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0402 EA 5" Polypropylene Flue/Vent 45 Degree Elbow	91.47	22.03
23 51 16 00-0403 EA 2" Polypropylene Flue/Vent 87 Degree Elbow	57.46	19.40
23 51 16 00-0404 EA 3" Polypropylene Flue/Vent 87 Degree Elbow	65.97	20.42
23 51 16 00-0405 EA 4" Polypropylene Flue/Vent 87 Degree Elbow	79.13	21.16
23 51 16 00-0406 EA 5" Polypropylene Flue/Vent 87 Degree Elbow	93.55	22.03
23 51 16 00-0407 Polypropylene Flue/Vent Tees (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0408 EA 2" Polypropylene Flue/Vent Tee	161.39	29.10
23 51 16 00-0409 EA 3" Polypropylene Flue/Vent Tee	199.49	30.64
23 51 16 00-0410 EA 4" Polypropylene Flue/Vent Tee	231.78	31.75
23 51 16 00-0411 EA 5" Polypropylene Flue/Vent Tee	252.65	33.04
23 51 16 00-0412 Polypropylene Flue/Vent Adaptors (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket	65.66	19.40
23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket	89.87	20.42
23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket	103.12	21.16
23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket	136.72	22.03
23 51 16 00-0417 Polypropylene Flue/Vent Increases (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser	71.86	19.91
23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser	78.11	20.79
23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser	131.44	21.59
23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser.....	92.92	19.91
23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser.....	76.39	20.79
23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser.....	176.43	21.59
23 51 16 00-0424 Polypropylene Flue/Vent Reducers (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer.....	71.86	19.91
23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer.....	78.11	20.79
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer.....	159.49	21.59
23 51 16 00-0428 Polypropylene Flue/Vent Test Ports (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port.....	93.35	29.10
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port.....	103.56	30.64
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port.....	149.83	31.75
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port.....	159.47	33.04
23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder	235.56	31.75
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	307.40	39.69
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder	197.72	33.04
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder	288.50	41.30
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve.....	289.33	20.79
23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve.....	333.54	21.59
23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee.....	121.79	29.10
23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee.....	144.59	30.64
23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee.....	163.69	31.75
23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee.....	184.92	33.04
23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings.....	202.17	31.75
23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings.....	221.75	33.04
23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap.....	66.12	9.70
23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap.....	83.59	10.20
23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap.....	98.45	10.59
23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap.....	126.96	11.01
23 51 16 00-0451 EA 2" Polypropylene Flue/Vent Tee Cap With Drain.....	134.10	29.10
23 51 16 00-0452 EA 3" Polypropylene Flue/Vent Tee Cap With Drain.....	161.66	30.64
23 51 16 00-0453 EA 4" Polypropylene Flue/Vent Tee Cap With Drain.....	184.86	31.75
23 51 16 00-0454 EA 5" Polypropylene Flue/Vent Tee Cap With Drain.....	219.73	33.04
23 51 16 00-0455 Polypropylene Flue/Vent Terminations (23 51 16 00-0372)		
23 51 16 00-0456 EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover	163.69	19.40
23 51 16 00-0457 EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover	146.32	20.42
23 51 16 00-0458 EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover	180.56	21.16
23 51 16 00-0459 EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe.....	355.70	20.42

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0460 EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	379.43	21.16
23 51 16 00-0461 EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	441.39	22.03
23 51 16 00-0462 EA 2"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	101.24	19.40
23 51 16 00-0463 EA 2"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	106.52	19.40
23 51 16 00-0464 EA 2"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	111.79	19.40
23 51 16 00-0465 EA 2"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	117.07	19.40
23 51 16 00-0466 EA 3"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	109.08	20.42
23 51 16 00-0467 EA 3"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	114.35	20.42
23 51 16 00-0468 EA 3"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	119.63	20.42
23 51 16 00-0469 EA 3"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	124.90	20.42
23 51 16 00-0470 EA 4"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	121.48	21.16
23 51 16 00-0471 EA 4"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	126.75	21.16
23 51 16 00-0472 EA 4"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar	132.03	21.16
23 51 16 00-0473 EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	106.47	19.40
23 51 16 00-0474 EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	133.87	20.42
23 51 16 00-0475 EA 2" Polypropylene-UV Black Flue/Vent Termination Tee	127.51	29.10
23 51 16 00-0476 EA 3" Polypropylene-UV Black Flue/Vent Termination Tee	163.51	30.64
23 51 16 00-0477 EA 4" Polypropylene-UV Black Flue/Vent Termination Tee	190.76	31.75
23 51 16 00-0478 EA 5" Polypropylene-UV Black Flue/Vent Termination Tee	209.05	33.04
23 51 16 00-0479 EA 2" x 20" Polypropylene-UV Black Flue/Vent End Pipe	49.07	16.80
23 51 16 00-0480 EA 2" x 39" Polypropylene-UV Black Flue/Vent End Pipe	57.89	18.68
23 51 16 00-0481 EA 3" x 20" Polypropylene-UV Black Flue/Vent End Pipe	58.50	19.27
23 51 16 00-0482 EA 3" x 39" Polypropylene-UV Black Flue/Vent End Pipe	71.56	21.41
23 51 16 00-0483 EA 4" x 20" Polypropylene-UV Black Flue/Vent End Pipe	86.25	25.48
23 51 16 00-0484 EA 5" x 20" Polypropylene-UV Black Flue/Vent End Pipe	120.43	37.60
23 51 16 00-0485 EA 5" x 39" Polypropylene-UV Black Flue/Vent End Pipe	143.80	41.79
23 51 16 00-0486 EA 2" x 24" Polypropylene-UV Black Flue/Vent Vent Length	53.30	16.80
23 51 16 00-0487 EA 3" x 24" Polypropylene-UV Black Flue/Vent Vent Length	67.26	19.27
23 51 16 00-0488 EA 4" x 24" Polypropylene-UV Black Flue/Vent Vent Length	106.76	25.48
23 51 16 00-0489 EA 2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	59.13	19.40
23 51 16 00-0490 EA 3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	68.08	20.42
23 51 16 00-0491 EA 4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow	82.68	21.16
23 51 16 00-0492 EA 2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	58.34	19.40
23 51 16 00-0493 EA 3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	67.55	20.42
23 51 16 00-0494 EA 4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow	81.75	21.16
23 51 16 00-0495 EA 2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	36.41	9.70
23 51 16 00-0496 EA 3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	41.83	10.20
23 51 16 00-0497 EA 4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent	46.39	10.59
23 51 16 00-0498 EA 3" Stainless Steel Bird Screen For Polypropylene Flue/Vent	85.05	10.20
23 51 16 00-0499 EA 5" Stainless Steel Bird Screen For Polypropylene Flue/Vent	97.33	11.01
23 51 16 00-0500 Polypropylene Flue/Vent Accessories (23 51 16 00-0372)		
23 51 16 00-0501 EA 2" Spacer For Polypropylene Flue/Vent	18.51	4.85
23 51 16 00-0502 EA 3" Spacer For Polypropylene Flue/Vent	17.89	5.11
23 51 16 00-0503 EA 4" Spacer For Polypropylene Flue/Vent	18.45	5.29
23 51 16 00-0504 EA 5" Spacer For Polypropylene Flue/Vent	27.57	5.51
23 51 16 00-0505 EA 2" Flue Clamp For Polypropylene Flue/Vent	33.91	7.28
23 51 16 00-0506 EA 3" Flue Clamp For Polypropylene Flue/Vent	39.36	7.66
23 51 16 00-0507 EA 4" Flue Clamp For Polypropylene Flue/Vent	45.16	7.94
23 51 16 00-0508 EA 2" Support Clamp For Polypropylene Flue/Vent	32.44	7.28
23 51 16 00-0509 EA 4" Support Clamp For Polypropylene Flue/Vent	32.74	7.94
23 51 16 00-0510 EA 5" Support Clamp For Polypropylene Flue/Vent	39.13	8.26
23 51 16 00-0511 EA 3" Plastic Support Clamp For Polypropylene Flue/Vent	25.90	7.66
23 51 16 00-0512 EA 2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	53.82	19.40
23 51 16 00-0513 EA 3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	58.81	20.42
23 51 16 00-0514 EA 4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	62.88	21.16
23 51 16 00-0515 EA 5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent	69.36	22.03
23 51 16 00-0516 EA 2" Single Wall EDPM Gasket For Polypropylene Flue/Vent	3.39	
23 51 16 00-0517 EA 3" Single Wall EDPM Gasket For Polypropylene Flue/Vent	3.79	
23 51 16 00-0518 EA 4" Single Wall EDPM Gasket For Polypropylene Flue/Vent	5.13	
23 51 16 00-0519 EA 5" Single Wall EDPM Gasket For Polypropylene Flue/Vent	8.47	
23 51 16 00-0520 EA 2" Connector Ring For Polypropylene Flue/Vent	15.77	4.85
23 51 16 00-0521 EA 3" Connector Ring For Polypropylene Flue/Vent	17.63	5.11
23 51 16 00-0522 EA 4" Connector Ring For Polypropylene Flue/Vent	18.88	5.29
23 51 16 00-0523 EA 5" Connector Ring For Polypropylene Flue/Vent	20.69	5.51
23 51 16 00-0524 EA 2"/4" Polypropylene Flue/Vent Air Intake, White	71.40	9.70
23 51 16 00-0525 EA 3"/5" Polypropylene Flue/Vent Air Intake, White	73.35	10.20
23 51 16 00-0526 EA 4"/6" Polypropylene Flue/Vent Air Intake, White	56.07	10.59
23 51 16 00-0527 EA 2" Base Support For Polypropylene Flue/Vent	61.46	7.28
23 51 16 00-0528 EA 3" Base Support For Polypropylene Flue/Vent	63.48	7.66
23 51 16 00-0529 EA 4" Base Support For Polypropylene Flue/Vent	83.99	7.94
23 51 16 00-0530 EA 5" Base Support For Polypropylene Flue/Vent	139.59	8.26
23 51 16 00-0531 Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)		
23 51 16 00-0532 LF 2", Up To 50', Polypropylene Flue/Vent Flex Pipe	11.30	1.70
23 51 16 00-0533 LF 2", > 50', Polypropylene Flue/Vent Flex Pipe	9.89	1.70
23 51 16 00-0534 LF 3", Up To 50', Polypropylene Flue/Vent Flex Pipe	13.84	2.01
23 51 16 00-0535 LF 3", > 50', Polypropylene Flue/Vent Flex Pipe	12.08	2.01
23 51 16 00-0536 LF 4", Up To 50', Polypropylene Flue/Vent Flex Pipe	19.74	2.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0537 LF 4", > 50', Polypropylene Flue/Vent Flex Pipe.....	17.03	2.48
23 51 16 00-0538 Polypropylene Flue/Vent Couplers <small>(23 51 16 00-0372)</small>		
<small>Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.</small>		
23 51 16 00-0539 EA 2" Polypropylene Flue/Vent Coupler, Single Wall to Flex	83.45	19.40
23 51 16 00-0540 EA 2" Polypropylene Flue/Vent Coupler, Flex to Single Wall	92.26	19.40
23 51 16 00-0541 EA 3" Polypropylene Flue/Vent Coupler, Flex to Single Wall	177.91	20.42
23 51 16 00-0542 EA 4" Polypropylene Flue/Vent Coupler, Flex to Single Wall	316.63	21.16
23 51 16 00-0543 EA 2" Polypropylene Flue/Vent Coupler, Flex to Flex	94.85	19.40
23 51 16 00-0544 EA 3" Polypropylene Flue/Vent Coupler, Flex to Flex	210.08	20.42
23 51 16 00-0545 EA 4" Polypropylene Flue/Vent Coupler, Flex to Flex	527.61	21.16
23 51 16 00-0546 Polypropylene Flue/Vent Flex End Terminations <small>(23 51 16 00-0372)</small>		
23 51 16 00-0547 EA 2" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination	106.54	19.40
23 51 16 00-0548 EA 3" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination	99.73	20.42
23 51 16 00-0549 EA 4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination	121.19	21.16
23 51 16 00-0550 Aluminum Flue/Vent Fittings <small>(23 51 16)</small>		
23 51 16 00-0551 Aluminum Vent Top Caps <small>(23 51 16 00-0550)</small>		
23 51 16 00-0552 EA 3" Aluminum Vent Cap (Star-Kap® 3-SK)	101.43	19.23
23 51 16 00-0553 EA 4" Aluminum Vent Cap (Star-Kap® 4-SK)	107.73	18.85
23 51 16 00-0554 EA 5" Aluminum Vent Cap (Star-Kap® 5-SK)	116.53	19.74
23 51 16 00-0555 EA 6" Aluminum Vent Cap (Star-Kap® 6-SK)	159.23	20.65
23 51 16 00-0556 EA 8" Aluminum Vent Cap (Star-Kap® 8-SK)	178.02	22.97
23 51 16 00-0557 EA 10" Aluminum Vent Cap (Star-Kap® 10-SK).....	488.42	24.26
23 51 16 00-0558 EA 12" Aluminum Vent Cap (Star-Kap® 12-SK).....	501.02	25.81
23 52 Heating Boilers <small>(23 50)</small>		
23 52 13 Electric Boilers <small>(23 52)</small>		
23 52 13 00-0001 Packaged Electric Steam Boiler <small>(23 52 13)</small>		
<small>Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.</small>		
23 52 13 00-0002 EA 12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls	8,406.31	778.40
23 52 13 00-0003 EA 24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls	9,082.43	908.13
23 52 13 00-0004 EA 36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls	9,698.82	973.00
23 52 13 00-0005 EA 48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls	10,754.96	1,037.87
23 52 13 00-0006 EA 60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls	11,787.03	1,102.74
23 52 13 00-0007 EA 80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls	13,717.89	1,232.47
23 52 13 00-0008 EA 100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls	15,648.87	1,362.21
23 52 13 00-0009 EA 120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls	16,329.48	1,427.07
23 52 13 00-0010 EA 140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls	17,293.96	1,491.94
23 52 13 00-0011 EA 160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls	22,360.06	1,621.67
23 52 13 00-0012 EA 180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls	23,282.30	1,686.53
23 52 13 00-0013 EA 200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls	23,989.64	1,682.33
23 52 13 00-0014 EA 220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls	24,985.99	1,806.94
23 52 13 00-0015 EA 240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls	26,936.02	1,931.56
23 52 13 00-0016 EA 260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls	29,000.54	2,118.49
23 52 13 00-0017 EA 280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls	30,861.31	2,180.80
23 52 13 00-0018 EA 300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls	32,333.18	2,243.11
23 52 13 00-0019 EA 320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls	34,487.94	2,305.42
23 52 13 00-0020 EA 360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls	36,643.33	2,367.72
23 52 13 00-0021 EA 400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls	39,203.61	2,492.34
23 52 13 00-0022 EA 460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls	41,851.15	2,616.95
23 52 13 00-0023 EA 500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls	44,436.36	2,679.26
23 52 13 00-0024 EA 600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls	49,100.80	2,741.57
23 52 13 00-0025 EA 700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls	52,878.94	2,866.19
23 52 13 00-0026 EA 756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls	54,159.09	2,990.81
23 52 13 00-0027 EA 828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls	59,401.71	3,177.73
23 52 13 00-0028 EA 936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls	61,382.18	3,364.66
23 52 13 00-0029 EA 1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls	63,487.27	3,551.58
23 52 13 00-0030 EA 1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls	67,310.20	3,738.51
23 52 13 00-0031 EA 1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls	69,019.81	3,863.13
23 52 13 00-0032 EA 1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls	71,257.75	4,112.36
23 52 13 00-0033 EA 1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls	73,693.42	4,361.59
23 52 13 00-0034 EA 1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls	80,355.74	4,610.83
23 52 13 00-0035 EA 1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls	84,677.14	4,860.06
23 52 13 00-0036 Packaged Electric Hot Water Boiler <small>(23 52 13)</small>		
<small>Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH output.</small>		
23 52 13 00-0037 EA 9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls.....	7,408.13	713.53
23 52 13 00-0038 EA 12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls.....	7,772.71	778.40
23 52 13 00-0039 EA 18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,137.29	843.27

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 52 13 00-0040	EA	24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,507.85	908.13
23 52 13 00-0041	EA	36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls.....	8,947.49	973.00
23 52 13 00-0042	EA	48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls.....	9,248.26	1,037.87
23 52 13 00-0043	EA	60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls.....	9,612.84	1,102.74
23 52 13 00-0044	EA	72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,159.72	1,167.60
23 52 13 00-0045	EA	84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,696.34	1,232.47
23 52 13 00-0046	EA	90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls.....	10,988.01	1,297.34
23 52 13 00-0047	EA	105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls.....	11,817.96	1,362.21
23 52 13 00-0048	EA	120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls.....	12,619.68	1,427.07
23 52 13 00-0049	EA	135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls.....	14,086.27	1,491.94
23 52 13 00-0050	EA	150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,089.53	1,556.81
23 52 13 00-0051	EA	165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls.....	15,898.88	1,621.67
23 52 13 00-0052	EA	180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls.....	17,166.86	1,686.53
23 52 13 00-0053	EA	195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls.....	18,234.17	1,682.33
23 52 13 00-0054	EA	225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls.....	19,561.91	1,806.94
23 52 13 00-0055	EA	240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls.....	21,023.37	1,931.56
23 52 13 00-0056	EA	270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls.....	22,475.72	2,118.49
23 52 13 00-0057	EA	300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls.....	23,937.17	2,243.11
23 52 13 00-0058	EA	330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls.....	25,330.36	2,367.72
23 52 13 00-0059	EA	360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls.....	27,346.63	2,430.03
23 52 13 00-0060	EA	390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls.....	29,124.11	2,492.34
23 52 13 00-0061	EA	420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls.....	30,828.68	2,616.95
23 52 13 00-0062	EA	450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls.....	32,607.39	2,616.95
23 52 13 00-0063	EA	504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls.....	35,677.36	2,679.26
23 52 13 00-0064	EA	612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls.....	37,300.96	2,741.57
23 52 13 00-0065	EA	684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls.....	39,409.19	2,866.19
23 52 13 00-0066	EA	720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls.....	40,946.56	2,928.50
23 52 13 00-0067	EA	750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls.....	42,490.28	2,990.81
23 52 13 00-0068	EA	810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls.....	43,670.90	3,177.73
23 52 13 00-0069	EA	900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls.....	45,777.30	3,364.66
23 52 13 00-0070	EA	1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls.....	53,099.26	3,551.58
23 52 13 00-0071	EA	1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls.....	58,203.48	3,738.51
23 52 13 00-0072	EA	1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls.....	60,394.70	3,863.13
23 52 13 00-0073	EA	1350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls.....	62,860.25	4,112.36
23 52 13 00-0074	EA	1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls.....	65,325.80	4,361.59
23 52 13 00-0075	EA	1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls.....	72,262.09	4,610.83
23 52 13 00-0076	EA	1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....	76,770.93	4,860.06
23 52 13 00-0077	EA	1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....	78,689.62	4,984.68
23 52 13 00-0078	EA	1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....	80,608.30	5,109.29
23 52 13 00-0079	EA	1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....	81,106.77	5,296.23
23 52 13 00-0080	EA	2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....	87,016.26	5,420.84
23 52 13 00-0081	EA	2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....	90,978.24	5,607.76
23 52 13 00-0082	EA	2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....	97,693.11	5,981.61
23 52 13 00-0083	EA	2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls.....	105,438.38	6,604.70
23 52 13 00-0084	EA	3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls.....	114,420.57	7,352.40
23 52 13 00-0085	EA	3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls.....	121,135.43	8,100.10

23 52 16 Condensing Boilers (23 52)**23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)****23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

23 52 16 13-0002	EA	75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79).....	14,019.61	518.94
23 52 16 13-0003	EA	127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129).....	14,847.76	691.22
23 52 16 13-0004	EA	168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179).....	15,841.17	778.27
23 52 16 13-0005	EA	187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1).....	16,791.92	821.60
23 52 16 13-0006	EA	281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299).....	22,141.01	951.34
23 52 16 13-0007	EA	374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399).....	25,617.03	1,037.74
23 52 16 13-0008	EA	589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599).....	34,573.64	1,210.68
23 52 16 13-0009	EA	785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798).....	48,010.30	1,383.74
23 52 16 13-0010	EA	Note: Includes vent manifold. 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998).....	58,681.81	1,513.47
23 52 16 13-0011	EA	Note: Includes vent manifold. 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499).....	84,652.38	1,772.81
23 52 16 13-0012	EA	1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999).....	93,278.44	1,902.54

23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)

Note: Includes Riello burners. Capacity given is IBR rating.

23 52 16 13-0014	EA	484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145).....	41,450.83	1,124.27
23 52 16 13-0015	EA	612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185).....	43,549.60	1,210.68
23 52 16 13-0016	EA	791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240).....	48,315.22	1,383.74
23 52 16 13-0017	EA	1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310).....	52,512.76	1,556.67
23 52 16 13-0018	EA	1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400).....	58,624.22	1,686.40
23 52 16 13-0019	EA	1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510).....	66,906.27	1,772.81
23 52 16 13-0020	EA	2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640).....	79,424.38	1,902.54



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)				
Note: Includes Riello burners.				
23 52 16 13-0022	EA	2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790)	87,261.92	2,075.48
23 52 16 13-0023	EA	3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970)	101,027.18	2,162.01
23 52 16 13-0024	EA	4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200)	117,056.08	2,248.55
23 52 16 13-0025 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)				
23 52 16 13-0026	EA	165 MBH 95.7% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211)	11,851.44	778.27
23 52 16 13-0027	EA	226 MBH 96% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN286)	15,456.33	864.80
23 52 16 13-0028 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)				
23 52 16 13-0029	EA	324 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN400)	20,567.53	994.54
23 52 16 13-0030	EA	406 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN501)	25,247.38	1,037.74
23 52 16 13-0031	EA	493 MBH 94.6% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN601)	29,643.84	1,124.27
23 52 16 13-0032	EA	574 MBH 94.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN701)	34,091.12	1,167.47
23 52 16 13-0033	EA	654 MBH 94% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN801)	39,091.36	1,254.01
23 52 16 13-0034 Lochinvar SYNC Stainless Steel Condensing Boilers (23 52 16 13)				
23 52 16 13-0035	EA	941 MBH 94.1% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1000)	53,515.77	1,513.47
23 52 16 13-0036	EA	1,240 MBH 95.4% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1300)	60,932.36	1,643.07
23 52 16 13-0037	EA	1,443 MBH 96.2% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1500)	65,441.23	1,772.81
23 52 16 13-0038 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)				
23 52 16 13-0039	EA	1,380 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1500)	65,005.53	1,686.40
23 52 16 13-0040	EA	1,840 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2000)	77,932.28	1,902.54
23 52 16 13-0041	EA	2,300 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2500)	101,303.42	1,989.08
23 52 16 13-0042	EA	2,760 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3000)	111,674.25	2,075.48
23 52 16 13-0043	EA	3,220 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3500)	132,878.68	2,162.01
23 52 16 13-0044 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)				
Note: Compliant with SCAQMD. Rated by gross rated input.				
23 52 16 13-0045	EA	80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080)	7,533.74	562.13
23 52 16 13-0046	EA	105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)	8,605.71	648.66
23 52 16 13-0047	EA	150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)	9,685.10	778.27
23 52 16 13-0048	EA	210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)	10,784.52	864.80
23 52 16 13-0049	EA	285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)	13,454.13	951.34
23 52 16 13-0050	EA	399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)	17,407.01	1,037.74
23 52 16 13-0051	EA	500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)	20,811.03	1,124.27
23 52 16 13-0052	EA	600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)	23,071.57	1,210.68
23 52 16 13-0053	EA	750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)	25,046.24	1,297.21
23 52 16 13-0054	EA	850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)	27,280.38	1,470.14
23 52 16 13-0055	EA	1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000)	38,377.07	1,556.67
23 52 16 13-0056	EA	1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700)	50,808.71	1,816.14
23 52 16 13-0057	EA	150 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV150)	17,050.87	778.27
23 52 16 13-0058	EA	199 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV199)	19,629.81	1,037.87
23 52 16 13-0059	EA	285 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV285)	25,612.01	1,167.60
23 52 16 13-0060	EA	399 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV399)	32,145.60	1,427.07
23 52 16 13-0061	EA	500 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV500)	37,923.76	1,556.81
23 52 16 13-0062	EA	600 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV600)	42,852.88	1,686.53
23 52 16 13-0063	EA	750 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV750)	51,351.07	1,816.27
23 52 16 13-0064	EA	850 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV850)	56,881.57	1,946.00
23 52 16 13-0065	EA	1,000 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1000)	74,598.38	2,075.74
23 52 16 13-0066	EA	1,700 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1700)	100,250.99	2,724.40
23 52 16 13-0067 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)				
23 52 16 13-0068	EA	1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN)	54,363.74	1,772.81
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0069	EA	2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN)	64,479.26	1,902.54
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0070	EA	3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	92,609.08	2,118.81
Note: Includes gas PRV and pump delay relay.				
23 52 16 13-0071	EA	3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	98,649.90	2,118.81
Note: Includes gas PRV and pump delay relay.				

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 52 16 16 Aluminum Condensing Boilers (23 52 16 16)****23 52 16 16-0001 Weil McLain Aluminum Condensing Boilers (23 52 16 16)**

23 52 16 16-0002	EA	80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	7,791.51	562.13
23 52 16 16-0003	EA	105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	8,606.82	648.66
23 52 16 16-0004	EA	155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	9,737.15	778.27
23 52 16 16-0005	EA	230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	10,923.02	864.80
23 52 16 16-0006	EA	310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	14,091.41	994.54

23 52 16 16-0007 Patterson Kelly Mach Series Aluminum Condensing Boilers (23 52 16 16)

Note: Rated by gross rated output.

23 52 16 16-0008	EA	300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C300)	22,197.72	951.34
23 52 16 16-0009	EA	450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C450)	24,968.86	1,081.07
23 52 16 16-0010	EA	750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C750)	28,292.78	1,297.21
23 52 16 16-0011	EA	900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C900)	41,872.74	1,470.14
23 52 16 16-0012	EA	1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1050)	43,743.47	1,556.67
23 52 16 16-0013	EA	1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1500)	67,804.49	1,772.81
23 52 16 16-0014	EA	2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2000)	73,421.82	1,902.54
23 52 16 16-0015	EA	2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2500)	84,982.62	2,075.48
23 52 16 16-0016	EA	3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C3000)	105,173.56	2,118.81
23 52 16 16-0017	EA	4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C4000)	128,353.97	2,248.55

23 52 16 16-0018 Buderus GB142 Wall Hung Aluminum Condensing Boilers (23 52 16 16)

Note: Includes standard controls.

23 52 16 16-0019	EA	75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24)	9,245.08	518.94
23 52 16 16-0020	EA	95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30)	10,734.82	605.33
23 52 16 16-0021	EA	143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45)	12,350.22	735.07
23 52 16 16-0022	EA	193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60)	13,506.86	821.60
23 52 16 16-0023	EA	Note: Includes an aluminum heat exchanger and three speed circulating pump.		
23 52 16 16-0024	EA	Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46)	429.09	129.73
23 52 16 16-0025	EA	Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3)	570.11	129.73
23 52 16 16-0025	EA	Optional GB Floor Stand For GB142 (Buderus 7098265)	1,248.60	129.73

23 52 16 16-0026 Buderus GB162 Wall Hung Aluminum Condensing Boilers (23 52 16 16)

Note: Includes standard controls.

23 52 16 16-0027	EA	290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80)	12,772.41	951.34
23 52 16 16-0028	EA	Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		
23 52 16 16-0028	EA	333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100)	15,752.22	994.54
23 52 16 16-0029	EA	Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		
23 52 16 16-0029	EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2)	30,397.48	1,167.47
23 52 16 16-0030	EA	Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0030	EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2)	28,409.13	1,167.47
23 52 16 16-0031	EA	Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0031	EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2)	36,357.10	1,254.01
23 52 16 16-0032	EA	Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0032	EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2)	34,368.75	1,254.01
23 52 16 16-0033	EA	Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0033	EA	870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3)	42,270.03	1,470.14
23 52 16 16-0034	EA	Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0034	EA	999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3)	51,079.73	1,556.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0035 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4).....	52,504.37	1,643.07
Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0036 EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4).....	53,300.71	1,643.07
Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0037 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4).....	64,034.42	1,686.40
Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0038 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4).....	64,830.76	1,686.40
Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
23 52 16 16-0039 EA EMS Control Module For Condensing Boiler (Buderus RC35).....	857.34	129.73
23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16)		
Note: Includes standard controls.		
23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90).....	24,884.85	951.34
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120).....	27,371.91	1,037.74
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160).....	32,498.86	1,145.81
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200).....	37,401.00	1,254.01
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240).....	44,820.40	1,383.74
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280).....	49,501.31	1,513.47
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	742.83	64.87
23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	354.53	64.87
23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....	511.90	64.87
23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899).....	1,096.38	64.87
23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16)		
23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)		
23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	51,111.37	1,643.07
23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	57,624.47	1,816.14
23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	63,046.41	1,902.54
23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	68,027.63	1,989.08
23 52 16 23 Cast Iron Condensing Boilers (23 52 16)		
23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23)		
Note: Rated by gross rated output.		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	17,282.78	821.60
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	25,253.20	1,037.74
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	41,382.07	1,210.68
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	54,309.74	1,556.67
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	72,327.95	1,816.14
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	78,875.06	1,902.54
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	100,291.28	2,075.48
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	109,580.83	2,118.81
23 52 23 Cast-Iron Boilers (23 52)		
23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23)		
Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380).....	15,626.05	3,268.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480).....	17,000.88	3,486.37
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580).....	18,498.67	3,704.27
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680).....	19,896.76	3,922.16
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780).....	21,193.58	4,140.06
Note: Includes field assembly of individual sections and testing.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880)..... Note: Includes field assembly of individual sections and testing.	22,941.36	4,357.96
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980)..... Note: Includes field assembly of individual sections and testing.	24,309.02	4,575.85
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080)..... Note: Includes field assembly of individual sections and testing.	25,410.29	4,793.75
23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180)..... Note: Includes field assembly of individual sections and testing.	26,507.70	5,011.66
23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280)..... Note: Includes field assembly of individual sections and testing.	27,763.38	5,229.55
23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0014 EA 209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380)..... Note: Fire tested factory assembled package unit.	10,422.11	498.47
23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480)..... Note: Fire tested factory assembled package unit.	11,530.97	498.47
23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580)..... Note: Fire tested factory assembled package unit.	13,263.29	623.09
23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680)..... Note: Fire tested factory assembled package unit.	14,393.94	623.09
23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780)..... Note: Fire tested factory assembled package unit.	15,925.59	747.70
23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880)..... Note: Fire tested factory assembled package unit.	17,420.88	747.70
23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980)..... Note: Fire tested factory assembled package unit.	19,021.33	872.32
23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080)..... Note: Fire tested factory assembled package unit.	20,355.74	996.93
23 52 23 00-0022 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180)..... Note: Fire tested factory assembled package unit.	21,189.39	996.93
23 52 23 00-0023 EA 1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280)..... Note: Fire tested factory assembled package unit.	22,676.32	1,121.55
23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0025 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380)..... Note: Includes field assembly of individual sections and testing.	16,273.93	3,268.47
23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	17,764.59	3,486.37
23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	19,192.42	3,704.27
23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	20,778.57	3,922.16
23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	22,099.47	4,140.06
23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	23,994.03	4,357.96
23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	25,212.62	4,575.85
23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	26,399.89	4,793.75
23 52 23 00-0033 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	27,498.45	5,011.66
23 52 23 00-0034 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	28,785.08	5,229.55
23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0036 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380)..... Note: Fire tested factory assembled package cast iron unit.	11,070.00	498.47
23 52 23 00-0037 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480)..... Note: Fire tested factory assembled package cast iron unit.	12,294.68	498.47
23 52 23 00-0038 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580)..... Note: Fire tested factory assembled package cast iron unit.	13,957.05	623.09
23 52 23 00-0039 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680)..... Note: Fire tested factory assembled package cast iron unit.	15,275.75	623.09
23 52 23 00-0040 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780)..... Note: Fire tested factory assembled package cast iron unit.	16,831.48	747.70
23 52 23 00-0041 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880)..... Note: Fire tested factory assembled package cast iron unit.	18,473.55	747.70
23 52 23 00-0042 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980)..... Note: Fire tested factory assembled package cast iron unit.	19,924.93	872.32
23 52 23 00-0043 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080)..... Note: Fire tested factory assembled package cast iron unit.	21,345.34	996.93
23 52 23 00-0044 EA 922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180)..... Note: Fire tested factory assembled package cast iron unit.	22,180.14	996.93
23 52 23 00-0045 EA 1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280)..... Note: Fire tested factory assembled package cast iron unit.	23,698.03	1,121.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0046 Weil-McLain Model 88 Cast Iron Boiler ^(23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0047 Gas Fired Weil-McLain Model 88 Cast Iron Boiler ^(23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0048 EA 629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488).....	24,910.01	4,902.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0049 EA 845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588).....	27,377.22	5,202.31
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0050 EA 1,072 MBH Steam, 1,229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688).....	30,406.41	5,501.92
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0051 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788).....	33,087.65	5,801.53
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0052 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888).....	35,432.63	6,101.14
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0053 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988).....	38,784.22	6,400.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0054 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088).....	41,150.15	6,700.36
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0055 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188).....	43,255.31	6,999.97
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0056 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288).....	46,030.89	7,299.58
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0057 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388).....	48,283.70	7,599.19
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0058 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488).....	52,209.96	7,898.80
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0059 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588).....	54,358.56	8,198.41
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0060 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688).....	56,631.00	8,498.02
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0061 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788).....	59,151.45	8,797.62
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0062 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888).....	61,221.36	9,097.23
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0063 Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler ^(23 52 23 00-0046)		
23 52 23 00-0064 EA 629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488).....	19,037.39	872.32
Note: Fire tested factory assembled package unit.		
23 52 23 00-0065 EA 845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588).....	21,599.91	996.93
Note: Fire tested factory assembled package unit.		
23 52 23 00-0066 EA 1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688).....	24,738.09	1,121.55
Note: Fire tested factory assembled package unit.		
23 52 23 00-0067 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788).....	27,503.57	1,246.17
Note: Fire tested factory assembled package unit.		
23 52 23 00-0068 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888).....	29,443.79	1,246.17
Note: Fire tested factory assembled package unit.		
23 52 23 00-0069 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988).....	32,893.85	1,370.79
Note: Fire tested factory assembled package unit.		
23 52 23 00-0070 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088).....	34,858.14	1,370.79
Note: Fire tested factory assembled package unit.		
23 52 23 00-0071 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188).....	37,058.33	1,495.41
Note: Fire tested factory assembled package unit.		
23 52 23 00-0072 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288).....	39,433.14	1,495.41
Note: Fire tested factory assembled package unit.		
23 52 23 00-0073 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388).....	41,781.27	1,620.02
Note: Fire tested factory assembled package unit.		
23 52 23 00-0074 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488).....	44,059.40	1,744.64
Note: Fire tested factory assembled package unit.		
23 52 23 00-0075 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588).....	45,806.97	1,744.64
Note: Fire tested factory assembled package unit.		
23 52 23 00-0076 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688).....	48,175.70	1,869.25
Note: Fire tested factory assembled package unit.		
23 52 23 00-0077 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788).....	50,293.65	1,869.25
Note: Fire tested factory assembled package unit.		
23 52 23 00-0078 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888).....	52,483.44	1,993.87
Note: Fire tested factory assembled package unit.		
23 52 23 00-0079 Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler ^(23 52 23 00-0046) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488).....	25,708.12	4,902.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0081 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588).....	28,170.74	5,202.31
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0082 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688).....	31,406.33	5,501.92
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0083 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788).....	34,188.49	5,801.53
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0084 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888).....	36,421.09	6,101.14
Note: Includes field assembly of individual sections and testing.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0085 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988)..... Note: Includes field assembly of individual sections and testing.	39,710.75	6,400.75
23 52 23 00-0086 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088)..... Note: Includes field assembly of individual sections and testing.	42,541.09	6,700.36
23 52 23 00-0087 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188)..... Note: Includes field assembly of individual sections and testing.	44,646.26	6,999.97
23 52 23 00-0088 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288)..... Note: Includes field assembly of individual sections and testing.	47,394.32	7,299.58
23 52 23 00-0089 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388)..... Note: Includes field assembly of individual sections and testing.	50,233.09	7,599.19
23 52 23 00-0090 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488)..... Note: Includes field assembly of individual sections and testing.	54,257.97	7,898.80
23 52 23 00-0091 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588)..... Note: Includes field assembly of individual sections and testing.	57,095.74	8,198.41
23 52 23 00-0092 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688)..... Note: Includes field assembly of individual sections and testing.	58,677.86	8,498.02
23 52 23 00-0093 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788)..... Note: Includes field assembly of individual sections and testing.	61,136.39	8,797.62
23 52 23 00-0094 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888)..... Note: Includes field assembly of individual sections and testing.	63,228.08	9,097.23
23 52 23 00-0095 Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small>		
23 52 23 00-0096 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488)..... Note: Fire tested factory assembled package cast iron unit.	19,835.49	872.32
23 52 23 00-0097 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588)..... Note: Fire tested factory assembled package cast iron unit.	22,393.42	996.93
23 52 23 00-0098 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688)..... Note: Fire tested factory assembled package cast iron unit.	25,726.54	1,121.55
23 52 23 00-0099 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788)..... Note: Fire tested factory assembled package cast iron unit.	28,604.41	1,246.17
23 52 23 00-0100 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888)..... Note: Fire tested factory assembled package cast iron unit.	30,434.54	1,246.17
23 52 23 00-0101 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988)..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	33,820.38	1,370.79
23 52 23 00-0102 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088)..... Note: Fire tested factory assembled package cast iron unit.	36,249.09	1,370.79
23 52 23 00-0103 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188)..... Note: Fire tested factory assembled package cast iron unit.	38,449.27	1,495.41
23 52 23 00-0104 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288)..... Note: Fire tested factory assembled package cast iron unit.	40,796.57	1,495.41
23 52 23 00-0105 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388)..... Note: Fire tested factory assembled package cast iron unit.	43,736.39	1,620.02
23 52 23 00-0106 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488)..... Note: Fire tested factory assembled package cast iron unit.	46,107.40	1,744.64
23 52 23 00-0107 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588)..... Note: Fire tested factory assembled package cast iron unit.	47,397.44	1,744.64
23 52 23 00-0108 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688)..... Note: Fire tested factory assembled package cast iron unit.	50,222.56	1,869.25
23 52 23 00-0109 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788)..... Note: Fire tested factory assembled package cast iron unit.	52,278.59	1,869.25
23 52 23 00-0110 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888)..... Note: Fire tested factory assembled package cast iron unit.	54,467.23	1,993.87
23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23)</small>		
Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0113 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894)..... Note: Includes field assembly of individual sections and testing.	65,717.06	9,533.04
23 52 23 00-0114 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994)..... Note: Includes field assembly of individual sections and testing.	71,119.35	10,077.77
23 52 23 00-0115 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094)..... Note: Includes field assembly of individual sections and testing.	76,068.51	10,622.52
23 52 23 00-0116 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194)..... Note: Includes field assembly of individual sections and testing.	80,917.53	11,167.27
23 52 23 00-0117 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294)..... Note: Includes field assembly of individual sections and testing.	85,810.71	11,712.02
23 52 23 00-0118 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394)..... Note: Includes field assembly of individual sections and testing.	92,293.95	12,256.76
23 52 23 00-0119 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494)..... Note: Includes field assembly of individual sections and testing.	96,914.31	12,801.50
23 52 23 00-0120 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594)..... Note: Includes field assembly of individual sections and testing.	101,390.72	13,346.25
23 52 23 00-0121 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694)..... Note: Includes field assembly of individual sections and testing.	108,566.90	13,890.99
23 52 23 00-0122 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794)..... Note: Includes field assembly of individual sections and testing.	113,040.80	14,435.74
23 52 23 00-0123 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894)..... Note: Includes field assembly of individual sections and testing.	116,902.93	14,980.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0124 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	123,835.06	15,525.22
23 52 23 00-0125 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	128,344.47	16,069.97
23 52 23 00-0126 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	135,432.80	16,614.72
23 52 23 00-0127 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	140,170.55	17,159.47
23 52 23 00-0128 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	145,338.76	17,704.20
23 52 23 00-0129 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	149,802.00	18,248.95
23 52 23 00-0130 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	154,388.44	18,793.70
23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
23 52 23 00-0132 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	57,296.12	1,620.02
23 52 23 00-0133 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	62,469.67	1,744.64
23 52 23 00-0134 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	67,186.84	1,869.25
23 52 23 00-0135 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	71,807.63	1,993.87
23 52 23 00-0136 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	75,970.15	1,993.87
23 52 23 00-0137 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	80,483.33	2,118.49
23 52 23 00-0138 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	84,374.08	2,118.49
23 52 23 00-0139 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	88,619.91	2,243.11
23 52 23 00-0140 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	95,067.80	2,243.11
23 52 23 00-0141 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	99,312.47	2,367.72
23 52 23 00-0142 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	102,445.26	2,367.72
23 52 23 00-0143 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	109,149.73	2,492.34
23 52 23 00-0144 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	112,929.25	2,492.34
23 52 23 00-0145 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	119,808.05	2,616.95
23 52 23 00-0146 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	123,795.12	2,616.95
23 52 23 00-0147 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	128,731.31	2,741.57
23 52 23 00-0148 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	132,466.12	2,741.57
23 52 23 00-0149 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	136,822.01	2,866.19
23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	62,295.31	9,533.04
23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	67,697.59	10,077.77
23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	74,231.50	10,622.52
23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	78,666.56	11,167.27
23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	83,277.65	11,712.02
23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	89,445.55	12,256.76
23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	94,279.19	12,801.50
23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	98,757.89	13,346.25
23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	106,752.82	13,890.99
23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	111,227.87	14,435.74
23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	115,701.18	14,980.48
23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	123,843.08	15,525.22
23 52 23 00-0163 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	128,352.50	16,069.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	135,625.44	16,614.72
23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	140,362.05	17,159.47
23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394) Note: Includes field assembly of individual sections and testing.	145,431.64	17,704.20
23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494) Note: Includes field assembly of individual sections and testing.	149,894.88	18,248.95
23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594) Note: Includes field assembly of individual sections and testing.	154,488.21	18,793.70
23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) Note: Fire tested factory assembled package cast iron unit.	53,688.60	1,620.02
23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) Note: Fire tested factory assembled package cast iron unit.	58,862.15	1,744.64
23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094) Note: Fire tested factory assembled package cast iron unit.	65,164.06	1,869.25
23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194) Note: Fire tested factory assembled package cast iron unit.	69,370.89	1,993.87
23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294) Note: Fire tested factory assembled package cast iron unit.	73,251.33	1,993.87
23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394) Note: Fire tested factory assembled package cast iron unit.	77,449.16	2,118.49
23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494) Note: Fire tested factory assembled package cast iron unit.	81,553.20	2,118.49
23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594) Note: Fire tested factory assembled package cast iron unit.	85,799.03	2,243.11
23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	93,067.96	2,243.11
23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	97,311.48	2,367.72
23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	101,057.75	2,367.72
23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	108,971.99	2,492.34
23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	112,751.51	2,492.34
23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	119,791.99	2,616.95
23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	123,800.86	2,616.95
23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	128,638.43	2,741.57
23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	132,373.23	2,741.57
23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	136,736.01	2,866.19
23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894) Note: Includes field assembly of individual sections and testing.	66,792.67	9,533.04
23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994) Note: Includes field assembly of individual sections and testing.	72,196.10	10,077.77
23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094) Note: Includes field assembly of individual sections and testing.	77,438.82	10,622.52
23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194) Note: Includes field assembly of individual sections and testing.	82,403.65	11,167.27
23 52 23 00-0193 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294) Note: Includes field assembly of individual sections and testing.	87,270.46	11,712.02
23 52 23 00-0194 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394) Note: Includes field assembly of individual sections and testing.	92,832.90	12,256.76
23 52 23 00-0195 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494) Note: Includes field assembly of individual sections and testing.	98,704.31	12,801.50
23 52 23 00-0196 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594) Note: Includes field assembly of individual sections and testing.	103,462.80	13,346.25
23 52 23 00-0197 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694) Note: Includes field assembly of individual sections and testing.	110,819.02	13,890.99
23 52 23 00-0198 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794) Note: Includes field assembly of individual sections and testing.	115,292.92	14,435.74
23 52 23 00-0199 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894) Note: Includes field assembly of individual sections and testing.	119,235.31	14,980.48
23 52 23 00-0200 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994) Note: Includes field assembly of individual sections and testing.	126,245.42	15,525.22
23 52 23 00-0201 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094) Note: Includes field assembly of individual sections and testing.	131,901.54	16,069.97
23 52 23 00-0202 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194) Note: Includes field assembly of individual sections and testing.	139,604.49	16,614.72
23 52 23 00-0203 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294) Note: Includes field assembly of individual sections and testing.	144,307.84	17,159.47



Heating, Ventilating, and Air-Conditioning (HVAC)

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Central Heating Equipment

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Heating Boilers

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0204 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394).....	149,689.34	17,704.20
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0205 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494).....	154,153.72	18,248.95
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0206 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594).....	158,743.61	18,793.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
23 52 23 00-0208 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894).....	58,455.43	1,620.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0209 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994).....	63,630.13	1,744.64
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0210 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	68,644.29	1,869.25
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0211 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	73,378.61	1,993.87
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0212 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	77,514.76	1,993.87
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0213 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	81,105.99	2,118.49
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0214 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	86,247.79	2,118.49
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0215 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	90,774.56	2,243.11
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0216 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694).....	97,404.78	2,243.11
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0217 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794).....	101,647.15	2,367.72
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0218 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894).....	104,861.35	2,367.72
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0219 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994).....	111,643.80	2,492.34
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0220 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094).....	116,571.17	2,492.34
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0221 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194).....	124,041.66	2,616.95
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0222 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294).....	128,017.27	2,616.95
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0223 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394).....	133,165.60	2,741.57
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0224 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494).....	136,901.55	2,741.57
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0225 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594).....	141,262.04	2,866.19
Note: Fire tested factory assembled package cast iron unit.		
23 52 33 Water-Tube Boilers <small>(23 52)</small>		
23 52 33 13 Finned Water-Tube Boilers <small>(23 52 33)</small>		
23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler <small>(23 52 33 13)</small>		
23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	10,179.33	770.62
23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	11,204.73	856.25
23 52 33 13-0004 EA 400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	12,885.88	1,027.49
23 52 33 13-0005 EA 500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	16,381.44	1,070.30
23 52 33 13-0006 EA 750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	19,253.26	1,284.36
23 52 33 13-0007 EA 1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	23,646.28	1,541.23
23 52 33 13-0008 EA 1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	26,821.96	1,626.86
23 52 33 13-0009 EA 1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	29,695.56	1,755.30
23 52 33 13-0010 EA 1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	32,357.67	1,840.92
23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	34,692.78	1,883.73
23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler <small>(23 52 33 13)</small>		
23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	35,163.67	1,541.23
23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	43,864.38	1,755.30
23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	46,745.07	1,883.73
23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	65,973.33	2,140.60
23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	69,246.77	2,397.48
23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler <small>(23 52 33 13)</small>		
23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402).....	11,885.05	691.48
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	418.39	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	370.63	
23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502).....	14,298.09	864.03
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	418.39	
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	370.63	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	15,440.05 418.39 370.63	1,037.87
23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	15,839.11 418.39 370.63	1,037.87
23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	19,656.49 418.39 370.63	1,297.34
23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	22,585.18 418.39 370.63	1,297.34
23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	24,522.49 418.39 370.63	1,297.34
23 52 33 13-0026 EA 1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	26,571.96 418.39 370.63	1,556.81
23 52 33 13-0027 EA 1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i>	31,405.74 418.39 370.63	1,816.27
23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump <small>(23 52 33 13)</small>		
23 52 33 13-0029 EA 385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....	11,704.86	950.42
23 52 33 13-0030 EA 420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B).....	12,613.75	856.25
23 52 33 13-0031 EA 546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B).....	13,966.52	1,027.49
23 52 33 13-0032 EA 630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B).....	14,840.96	1,166.43
23 52 33 13-0033 EA 756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B).....	16,485.94	1,284.36
23 52 33 13-0034 EA 832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B).....	17,722.11	1,382.44
23 52 33 13-0035 EA 1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	20,228.93	1,541.23
23 52 33 13-0036 EA 1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	23,373.75	1,626.86
23 52 33 13-0037 EA 1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	24,824.08	1,755.30
23 52 33 13-0038 EA 1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	29,434.29	1,798.11
23 52 33 13-0039 EA 1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	29,564.03	1,840.92
23 52 33 13-0040 EA 1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	34,375.79	1,883.73
23 52 33 16 Steel Water-Tube Boilers <small>(23 52 33)</small>		
23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler <small>(23 52 33 16)</small> Note: Compliant with BAAQMD.		
23 52 33 16-0002 EA 1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	71,682.22	2,075.74
23 52 33 16-0003 EA 1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	77,290.86	2,594.68
23 52 33 16-0004 EA 2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	78,824.53	2,854.14
23 52 33 16-0005 EA 2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	84,928.97	3,113.61
23 52 33 16-0006 EA 3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	87,992.75	3,502.81
23 52 33 16-0007 EA 3,750 MBH Output/3,188 MBH Input, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	97,148.53	3,892.01
23 52 33 16-0008 EA 4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	101,216.37	4,021.74
23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler <small>(23 52 33 16)</small> Note: Compliant with BAAQMD.		
23 52 33 16-0010 EA 1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100LS).....	83,626.30	2,335.21
23 52 33 16-0011 EA 1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150LS).....	87,958.95	2,724.40
23 52 33 16-0012 EA 2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200LS).....	90,509.13	2,983.87
23 52 33 16-0013 EA 2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250LS).....	101,182.56	3,243.34
23 52 33 16-0014 EA 3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300LS).....	105,001.61	3,502.81
23 52 33 16-0015 EA 3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350LS).....	112,380.27	3,892.01
23 52 33 16-0016 EA 4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400LS).....	118,998.29	4,151.47
23 52 33 16-0017 EA 5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500LS).....	197,451.27	4,410.94
23 52 33 16-0018 EA 6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600LS).....	213,710.20	4,670.41
23 52 33 16-0019 EA 7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700LS).....	224,891.88	4,929.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0020 EA 8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800LS).....	230,742.19	5,189.34
23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16) Note: Compliant with BAAQMD.		
23 52 33 16-0022 EA 1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	89,972.41	2,335.21
23 52 33 16-0023 EA 1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	95,575.70	2,724.40
23 52 33 16-0024 EA 2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	99,140.63	2,983.87
23 52 33 16-0025 EA 2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	110,068.19	3,243.34
23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....	113,887.24	3,502.81
23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....	119,997.02	3,892.01
23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....	126,863.84	4,151.47
23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....	204,813.90	4,410.94
23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....	222,343.47	4,670.41
23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....	229,462.65	4,929.87
23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS).....	239,375.46	5,189.34
23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS).....	266,043.02	5,448.81
23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS).....	383,724.25	5,708.28
23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS).....	403,157.13	5,967.74
23 52 36 Fire-Box Boiler (23 52)		
23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36) Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP), boiler sizes are based on HP rating and gross output.		
23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	79,473.33	2,990.81
23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	83,117.39	3,240.04
23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	87,047.36	3,489.27
23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	94,122.90	3,738.51
23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	98,338.79	3,987.74
23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	102,483.36	4,236.97
23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	113,934.04	4,486.22
23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	131,788.31	4,984.68
23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	149,942.93	5,483.15
23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	164,504.46	6,043.93
23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	179,066.15	6,604.70
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	188,458.44	7,726.26
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	229,520.56	8,847.81
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	271,583.52	9,969.35
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	314,110.26	11,215.53
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water.....	355,584.89	12,150.15
23 52 39 Fire-Tube Boilers (23 52)		
23 52 39 13 Scotch Marine Boilers (23 52 39)		
23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	63,434.75	1,370.79
23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	68,291.97	1,495.41
23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	74,172.55	1,620.02
23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	77,594.41	1,869.25
23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	81,325.65	1,993.87
23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	85,148.25	2,118.49

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	87,774.89	2,180.80
23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	92,627.16	2,243.11
23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	104,704.78	2,492.34
23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	118,932.58	2,741.57
23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	130,458.84	3,021.96
23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	141,982.55	3,302.35
23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	149,966.82	3,863.13
23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	182,237.21	4,423.91
23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	197,394.64	4,984.68
23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	232,237.02	5,545.46
23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	281,722.70	6,106.24
23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	329,335.10	6,667.01
23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	374,914.74	7,227.78
23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	418,684.38	7,788.56
23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	649,845.21	8,349.33
23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	706,977.18	8,910.11
23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	58,847.23	1,370.79
23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	63,359.16	1,495.41
23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	68,810.80	1,620.02
23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	75,029.35	1,869.25
23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	78,300.19	1,993.87
23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	81,565.18	2,118.49
23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	84,589.30	2,180.80
23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	90,588.26	2,243.11
23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	104,802.00	2,492.34
23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	119,038.38	2,741.57
23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	130,576.09	3,021.96
23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	142,111.23	3,302.35
23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	150,101.22	3,863.13
23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	182,403.07	4,423.91
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	197,571.94	4,984.68
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	232,448.63	5,545.46
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	281,980.07	6,106.24
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	329,638.22	6,667.01
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	375,260.75	7,227.78
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	419,073.29	7,788.56
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	650,459.98	8,349.33
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	707,649.72	8,910.11
23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	65,442.61	1,370.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	70,450.97	1,495.41
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	76,514.56	1,620.02
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	80,505.48	1,869.25
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	84,002.24	1,993.87
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	87,493.13	2,118.49
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	90,740.30	2,180.80
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	93,988.33	2,243.11
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	108,753.97	2,492.34
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	123,542.25	2,741.57
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	135,514.61	3,021.96
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	147,481.56	3,302.35
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	155,711.76	3,863.13
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	189,266.11	4,423.91
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	204,972.58	4,984.68
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	241,210.44	5,545.46
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	292,712.15	6,106.24
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	342,260.49	6,667.01
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	389,693.15	7,227.78
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	435,235.75	7,788.56
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	476,173.22	8,349.33
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	517,648.75	8,910.11
23 52 39 13-0071 125 PSI Water Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	75,026.33	1,495.41
23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	84,163.99	1,620.02
23 52 39 13-0075 EA 60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	90,488.35	1,869.25
23 52 39 13-0076 EA 70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	97,262.20	1,993.87
23 52 39 13-0077 EA 80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	104,176.03	2,118.49
23 52 39 13-0078 EA 90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	109,656.55	2,180.80
23 52 39 13-0079 EA 100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	118,008.97	2,243.11
23 52 39 13-0080 EA 125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	126,652.21	2,492.34
23 52 39 13-0081 EA 150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,089.04	2,741.57
23 52 39 13-0082 EA 175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	146,947.30	3,021.96
23 52 39 13-0083 EA 200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,237.07	3,302.35
23 52 39 13-0084 EA 250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	184,219.11	3,863.13
23 52 39 13-0085 EA 300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	214,447.75	4,423.91
23 52 39 13-0086 EA 350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	231,263.74	4,984.68
23 52 39 13-0087 EA 400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	258,016.31	5,545.46
23 52 39 13-0088 EA 500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	312,308.98	6,106.24
23 52 39 13-0089 EA 600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	365,306.01	6,667.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0090 EA 700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	416,041.51	7,227.78
23 52 39 13-0091 EA 800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	464,746.82	7,788.56
23 52 39 13-0092 EA 900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	723,118.84	8,349.33
23 52 39 13-0093 EA 1,000 HP, 33,476 125 PSI MBH Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	786,769.89	8,910.11
23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0095 EA 40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	69,558.78	1,495.41
23 52 39 13-0096 EA 50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	78,010.13	1,620.02
23 52 39 13-0097 EA 60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	87,448.59	1,869.25
23 52 39 13-0098 EA 70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,581.90	1,993.87
23 52 39 13-0099 EA 80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	99,706.48	2,118.49
23 52 39 13-0100 EA 90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	105,587.34	2,180.80
23 52 39 13-0101 EA 100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	115,349.54	2,243.11
23 52 39 13-0102 EA 125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	126,769.45	2,492.34
23 52 39 13-0103 EA 150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,214.86	2,741.57
23 52 39 13-0104 EA 175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	147,081.70	3,021.96
23 52 39 13-0105 EA 200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,377.19	3,302.35
23 52 39 13-0106 EA 250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	184,387.83	3,863.13
23 52 39 13-0107 EA 300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	214,645.06	4,423.91
23 52 39 13-0108 EA 350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	231,475.35	4,984.68
23 52 39 13-0109 EA 400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	258,253.66	5,545.46
23 52 39 13-0110 EA 500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	312,597.80	6,106.24
23 52 39 13-0111 EA 600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	365,646.30	6,667.01
23 52 39 13-0112 EA 700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	416,430.41	7,227.78
23 52 39 13-0113 EA 800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	465,181.48	7,788.56
23 52 39 13-0114 EA 900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	723,807.89	8,349.33
23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	787,520.83	8,910.11
23 52 39 13-0116 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0117 EA 40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	77,416.96	1,495.41
23 52 39 13-0118 EA 50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	86,852.02	1,620.02
23 52 39 13-0119 EA 60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,934.17	1,869.25
23 52 39 13-0120 EA 70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,522.14	1,993.87
23 52 39 13-0121 EA 80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	107,104.26	2,118.49
23 52 39 13-0122 EA 90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	113,442.66	2,180.80
23 52 39 13-0123 EA 100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,781.92	2,243.11
23 52 39 13-0124 EA 125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	131,636.49	2,492.34
23 52 39 13-0125 EA 150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	143,516.56	2,741.57
23 52 39 13-0126 EA 175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	152,706.53	3,021.96
23 52 39 13-0127 EA 200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	158,176.46	3,302.35
23 52 39 13-0128 EA 250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	191,428.16	3,863.13
23 52 39 13-0129 EA 300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	222,852.11	4,423.91
23 52 39 13-0130 EA 350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	240,288.64	4,984.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0131 EA 400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	268,090.68	5,545.46
23 52 39 13-0132 EA 500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	324,608.12	6,106.24
23 52 39 13-0133 EA 600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	379,769.86	6,667.01
23 52 39 13-0134 EA 700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	432,578.57	7,227.78
23 52 39 13-0135 EA 800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	483,265.59	7,788.56
23 52 39 13-0136 EA 900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	752,578.48	8,349.33
23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	818,845.42	8,910.11
23 52 39 13-0138 150 PSI Steam Scotch Marine Boilers <small>(23 52 39 13)</small> Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0139 150 PSI Gas Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>		
23 52 39 13-0140 EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	86,985.18	1,495.41
23 52 39 13-0141 EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	94,478.57	1,620.02
23 52 39 13-0142 EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	98,629.63	1,869.25
23 52 39 13-0143 EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	103,330.27	1,993.87
23 52 39 13-0144 EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	108,150.88	2,118.49
23 52 39 13-0145 EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	111,492.41	2,180.80
23 52 39 13-0146 EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	117,725.87	2,243.11
23 52 39 13-0147 EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	133,129.20	2,492.34
23 52 39 13-0148 EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	151,320.41	2,741.57
23 52 39 13-0149 EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	165,969.35	3,021.96
23 52 39 13-0150 EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	180,615.74	3,302.35
23 52 39 13-0151 EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	190,321.50	3,863.13
23 52 39 13-0152 EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	231,602.49	4,423.91
23 52 39 13-0153 EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	250,608.35	4,984.68
23 52 39 13-0154 EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	295,259.74	5,545.46
23 52 39 13-0155 EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	358,923.32	6,106.24
23 52 39 13-0156 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	420,124.54	6,667.01
23 52 39 13-0157 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	478,718.22	7,227.78
23 52 39 13-0158 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	534,944.28	7,788.56
23 52 39 13-0159 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	834,784.91	8,349.33
23 52 39 13-0160 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	908,354.86	8,910.11
23 52 39 13-0161 150 PSI Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>		
23 52 39 13-0162 EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	80,571.10	1,495.41
23 52 39 13-0163 EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	87,509.73	1,620.02
23 52 39 13-0164 EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	95,292.48	1,869.25
23 52 39 13-0165 EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	99,398.32	1,993.87
23 52 39 13-0166 EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	103,495.45	2,118.49
23 52 39 13-0167 EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	107,348.85	2,180.80
23 52 39 13-0168 EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	115,072.16	2,243.11
23 52 39 13-0169 EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	133,252.16	2,492.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0170 EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	151,460.53	2,741.57
23 52 39 13-0171 EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	166,123.77	3,021.96
23 52 39 13-0172 EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	180,784.46	3,302.35
23 52 39 13-0173 EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	190,495.93	3,863.13
23 52 39 13-0174 EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	231,816.96	4,423.91
23 52 39 13-0175 EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	250,839.98	4,984.68
23 52 39 13-0176 EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	295,534.26	5,545.46
23 52 39 13-0177 EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	359,257.90	6,106.24
23 52 39 13-0178 EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	420,519.16	6,667.01
23 52 39 13-0179 EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	479,167.18	7,227.78
23 52 39 13-0180 EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	535,447.57	7,788.56
23 52 39 13-0181 EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	835,585.35	8,349.33
23 52 39 13-0182 EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	909,229.57	8,910.11
23 52 39 13-0183 150 PSI Gas/Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-01 39)</small>		
23 52 39 13-0184 EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	89,790.45	1,495.41
23 52 39 13-0185 EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	97,524.05	1,620.02
23 52 39 13-0186 EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	102,412.88	1,869.25
23 52 39 13-0187 EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	106,810.41	1,993.87
23 52 39 13-0188 EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	111,199.21	2,118.49
23 52 39 13-0189 EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	115,347.16	2,180.80
23 52 39 13-0190 EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	119,493.10	2,243.11
23 52 39 13-0191 EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	138,390.87	2,492.34
23 52 39 13-0192 EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	157,314.13	2,741.57
23 52 39 13-0193 EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	172,540.72	3,021.96
23 52 39 13-0194 EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	187,767.60	3,302.35
23 52 39 13-0195 EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	197,790.77	3,863.13
23 52 39 13-0196 EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	240,738.91	4,423.91
23 52 39 13-0197 EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	260,459.68	4,984.68
23 52 39 13-0198 EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	306,924.05	5,545.46
23 52 39 13-0199 EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	373,212.75	6,106.24
23 52 39 13-0200 EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	436,927.55	6,667.01
23 52 39 13-0201 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	497,929.01	7,227.78
23 52 39 13-0202 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	556,459.91	7,788.56
23 52 39 13-0203 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	869,010.08	8,349.33
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	945,625.02	8,910.11
23 53 Heating Boiler Feedwater Equipment <small>(23 50)</small>		
23 53 13 Boiler Feedwater Pumps <small>(23 53)</small> See CSI section 23 53 16 00-0001 for boiler feedwater units.		
23 53 16 Deaerators <small>(23 53)</small>		
23 53 16 00-0001 Boiler Feed System <small>(23 53 16)</small>		
23 53 16 00-0002 Low Pressure Boiler Feed System <small>(23 53 16 00-0001)</small> Note: With deaerator includes pumps and accessories.		
23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System.....	6,617.33	1,621.64



		MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		23 53 16 00-0004	EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,255.57	1,910.46
		23 53 16 00-0005	EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,741.22	1,977.38
		23 53 16 00-0006	EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	7,995.85	2,049.94
		23 53 16 00-0007	EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	8,475.72	2,190.83
		23 53 16 00-0008	EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	12,767.90	2,373.99
		23 53 16 00-0009	EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	14,307.79	2,536.02
		23 53 16 00-0010	EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	16,386.96	2,888.23
		23 53 16 00-0011	EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	17,979.49	3,099.57
		23 53 16 00-0012	EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	19,349.98	3,310.91
		23 53 16 00-0013	High Pressure Boiler Feed System <small>(23 53 16 00-0001)</small>		
			Note: With deaerator includes pumps and accessories.		
		23 53 16 00-0014	EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	8,577.21	1,382.55
		23 53 16 00-0015	EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	9,059.25	1,621.64
		23 53 16 00-0016	EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,162.46	1,910.46
		23 53 16 00-0017	EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,920.30	1,977.38
		23 53 16 00-0018	EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	11,135.04	2,049.94
		23 53 16 00-0019	EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	13,251.91	2,190.83
		23 53 16 00-0020	EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	16,906.22	2,373.99
		23 53 16 00-0021	EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	17,419.83	2,536.02
		23 53 16 00-0022	EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	19,100.30	2,715.79
		23 53 16 00-0023	EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	20,527.79	2,888.23
		23 53 16 00-0024	EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	21,960.53	3,099.57
		23 53 16 00-0025	EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	23,684.49	3,310.91
		23 53 16 00-0026	Boiler Feedwater System <small>(23 53 16)</small>		
			Note: With deaerator includes pumps and accessories.		
		23 53 16 00-0027	EA 1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	10,844.29	1,910.46
		23 53 16 00-0028	EA 2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	13,930.04	2,188.72
		23 53 16 00-0029	EA 4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	18,122.93	2,505.02
		23 53 16 00-0030	EA 6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	21,718.17	2,889.64
		23 53 16 00-0031	EA 8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	23,071.18	3,099.57
		23 53 16 00-0032	EA 11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	24,374.62	3,310.91
		23 53 16 00-0033	EA 13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	27,207.36	3,804.16
		23 53 16 00-0034	EA 17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	34,811.94	4,367.86
		23 53 16 00-0035	EA 20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	44,767.99	5,046.95
		23 53 16 00-0036	EA 27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	56,323.74	5,793.38
		23 53 16 00-0037	EA 34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	71,604.83	6,665.49
		23 53 16 00-0038	Duplex Vacuum Condensate Pumps <small>(23 53 16)</small>		
		23 53 16 00-0039	EA 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.	27,290.98	1,127.12
		23 53 16 00-0040	EA 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.	27,934.44	1,197.56
		23 53 16 00-0041	EA 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.	28,669.27	1,268.01
		23 53 16 00-0042	EA 18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump..... Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.	27,779.11	1,338.45
		23 53 16 00-0043	EA 28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.	37,448.92	1,408.90
		23 53 16 00-0044	EA 42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.	39,417.30	1,479.34
		23 54	Furnaces <small>(23 50)</small>		
			Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.		
		23 54 13	Electric-Resistance Furnaces <small>(23 54)</small>		
		23 54 13 00-0001	Down Flow Multi-Speed Air Handler/Electric Furnace <small>(23 54 13)</small>		
		23 54 13 00-0002	EA Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,237.15	129.06
			Note: Excludes cooling equipment.		
		23 54 13 00-0003	EA >2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace.....	1,628.51	161.32
			Note: Excludes cooling equipment.		
		23 54 13 00-0004	EA >3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace.....	2,097.10	193.59
			Note: Excludes cooling equipment.		
		23 54 13 00-0005	Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace <small>(23 54 13)</small>		
		23 54 13 00-0006	EA Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace.....	1,237.15	129.06
			Note: Excludes cooling equipment.		
		23 54 13 00-0007	EA >2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,473.86	145.19
			Note: Excludes cooling equipment.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 13 00-0008 EA >2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,612.41	161.32
Note: Excludes cooling equipment.		
23 54 13 00-0009 EA >3 to 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,693.04	177.46
Note: Excludes cooling equipment.		
23 54 13 00-0010 EA >3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	2,097.10	193.59
Note: Excludes cooling equipment.		
23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)		
23 54 13 00-0012 EA 5 KW Heating Coil For Air Handler/Electric Furnace.....	225.52	34.26
23 54 13 00-0013 EA 7 KW Heating Coil For Air Handler/Electric Furnace.....	256.91	37.68
23 54 13 00-0014 EA 10 KW Heating Coil For Air Handler/Electric Furnace.....	278.67	41.11
23 54 13 00-0015 EA 15 KW Heating Coil For Air Handler/Electric Furnace.....	372.84	44.53
23 54 13 00-0016 EA 20 KW Heating Coil For Air Handler/Electric Furnace.....	402.62	47.96
23 54 16 Fuel-Fired Furnaces (23 54)		
23 54 16 13 Gas-Fired Furnaces (23 54 16)		
23 54 16 13-0001 Natural Gas Fired Forced Air Furnaces (23 54 16 13)		
Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 13-0002 Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0003 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	1,887.12	112.92
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0004 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,016.00	129.06
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0005 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace.....	2,323.52	145.19
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0006 EA 100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,721.31	177.46
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0007 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,906.52	193.59
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0009 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,093.08	112.92
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0010 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,296.00	129.06
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0011 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,440.62	145.19
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0012 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,648.86	161.32
Note: Blower cooling capacity up to 3.5 tons.		
23 54 16 13-0013 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,883.84	177.46
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0014 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	3,044.92	193.59
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0016 EA 45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	1,851.63	112.92
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0017 EA 70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,125.36	129.06
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0018 EA 90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,318.79	161.32
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0019 EA 90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,479.87	177.46
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0020 Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0021 EA 40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,408.48	112.92
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0022 EA 60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,543.82	129.06
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0023 EA 80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,833.63	145.19
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0024 EA 100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	3,107.52	177.46
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0025 EA 120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace.....	3,332.96	193.59
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0026 Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0027 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,690.78	112.92
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0028 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,789.10	129.06
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0029 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,996.85	145.19
Note: Blower cooling capacity up to 3 tons.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0030 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	2,012.94	145.19
23 54 16 13-0031 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	2,198.16	161.32
23 54 16 13-0032 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,322.23	177.46
23 54 16 13-0033 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	2,465.60	193.59
23 54 16 13-0034 Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0035 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,196.75	112.92
23 54 16 13-0036 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,312.78	129.06
23 54 16 13-0037 EA 60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,499.61	145.19
23 54 16 13-0038 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,501.22	145.19
23 54 16 13-0039 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,649.42	161.32
23 54 16 13-0040 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,701.08	177.46
23 54 16 13-0041 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,887.90	193.59
23 54 16 13-0042 Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0043 EA 40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,212.85	112.92
23 54 16 13-0044 EA 60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,317.61	129.06
23 54 16 13-0045 EA 80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,572.02	145.19
23 54 16 13-0046 EA 100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,731.49	161.32
23 54 16 13-0047 75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)		
23 54 16 13-0048 EA 35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace 23 54 16 13-0049 EA 55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace 23 54 16 13-0050 EA 35 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0051 EA 40 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0052 EA 50 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0053 EA 65 MBH 75% AFUE Gas Wall/Recessed Furnace..... 23 54 16 13-0054 EA 75 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,997.91 2,311.94 1,812.85 1,938.44 1,927.27 1,988.57 2,056.28	96.79 121.05 96.79 104.92 112.92 121.05 121.05
23 54 16 13-0055 Gas Fired Indoor Duct Furnace (23 54 16 13-0001) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0056 Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)		
23 54 16 13-0057 EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0058 EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0059 EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0060 EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0061 EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0062 EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0063 EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace	2,247.45 2,514.22 2,888.09 3,257.87 3,795.08 4,191.89 4,830.99	251.67 309.74 445.25 503.33 580.77 696.92 929.23
23 54 16 13-0064 Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065 EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0066 EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0067 EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0068 EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0069 EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0070 EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace 23 54 16 13-0071 EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace	2,506.21 2,769.12 3,238.25 3,671.11 4,508.28 4,965.59 5,562.21	251.67 309.74 445.25 503.33 580.77 696.92 929.23
23 54 16 16 Oil-Fired Furnaces (23 54 16)		
23 54 16 16-0001 Oil Fired Forced Air Furnaces (23 54 16 16) Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 16-0002 Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0003 EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace..... Note: Blower cooling capacity up to 3 tons. 23 54 16 16-0004 EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 4 tons.	3,206.81 3,435.80	129.06 177.46

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 16-0005 EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	3,968.76	209.73
23 54 16 16-0006 Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0007 EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 3 tons.	3,735.11	177.46
23 54 16 16-0008 EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	3,786.92	209.73
23 54 16 16-0009 Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16- 0001)		
23 54 16 16-0010 EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 4 tons.	3,245.91	177.46
23 54 16 16-0011 EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	3,852.90	209.73
23 54 19 Furnace Accessories (23 54)		
23 54 19 00-0001 EA LP Gas Furnace Conversion Kit.....	201.46	32.26
23 54 19 00-0002 EA 1" Furnace External Filter Rack.....	59.60	
23 54 19 00-0003 EA Removal And Reinstallation Of Forced Air Furnace..... Note: Includes storage and cleaning. Excludes ductwork.	597.50	
23 55 Fuel-Fired Heaters (23 50)		
23 55 23 Gas-Fired Radiant Heaters (23 55)		
23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters (23 55 23)		
23 55 23 13-0001 Infrared Heaters-Radiant Energy (23 55 23 13) Note: For spot localized or total heating, ceiling hung units, no fan required.		
23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001) Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.		
23 55 23 13-0003 EA 15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	908.70	140.89
23 55 23 13-0004 EA 37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,022.54	154.98
23 55 23 13-0005 EA 50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,082.38	154.98
23 55 23 13-0006 EA 75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,348.71	185.98
23 55 23 13-0007 EA 100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,358.80	185.98
23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001) Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.		
23 55 23 13-0009 EA 1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,001.21 142.75	141.96
23 55 23 13-0010 EA 3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,062.71 158.13	141.96
23 55 23 13-0011 EA 5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,132.98 175.70	141.96
23 55 23 13-0012 EA 7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,217.47 196.82	141.96
23 55 23 13-0013 EA 10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,322.53 219.31	154.87
23 55 23 13-0014 EA 13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	1,409.78 236.18	167.77
23 55 23 13-0015 EA 24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required..... <i>For Stainless Steel Housing, Add</i>	2,203.76 421.76	180.69
23 55 23 13-0016 Gas Fired Tubular Infrared Heater (23 55 23 13-0001) Note: Per Tube Length. Includes controls and supports.		
23 55 23 13-0017 "U" Package (23 55 23 13-0016)		
23 55 23 13-0018 LF Up To 75 MBH Input Radiant Heater.....	77.09	7.04
23 55 23 13-0019 LF 76 To 105 MBH Input Radiant Heater.....	89.31	8.45
23 55 23 13-0020 LF 106 To 130 MBH Input Radiant Heater.....	108.12	9.86
23 55 23 13-0021 "S" Straight Package (23 55 23 13-0016)		
23 55 23 13-0022 LF Up To 75 MBH Input Radiant Heater.....	63.08	5.63
23 55 23 13-0023 LF 76 To 105 MBH Input Radiant Heater.....	79.49	7.04
23 55 23 13-0024 LF 106 To 130 MBH Input Radiant Heater.....	95.89	8.45
23 55 33 Fuel-Fired Unit Heaters (23 55)		
23 55 33 13 Oil-Fired Unit Heaters (23 55 33)		
23 55 33 13-0001 Oil Fired Unit Heater (23 55 33 13)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 13-0002 Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt <small>(23 55 33 13-0001)</small>		
23 55 33 13-0003 EA 97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	6,570.81	648.66
23 55 33 13-0004 EA 142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	7,062.01	713.53
23 55 33 13-0005 EA 188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	7,594.68	778.40
 23 55 33 16 Gas-Fired Unit Heaters <small>(23 55 33)</small>		
23 55 33 16-0001 Gas Fired Unit Heaters <small>(23 55 33 16)</small>		
23 55 33 16-0002 Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt <small>(23 55 33 16-0001)</small>		
23 55 33 16-0003 EA 24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,705.25	243.25
23 55 33 16-0004 EA 36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,886.29	291.90
23 55 33 16-0005 EA 48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,911.82	291.90
23 55 33 16-0006 EA 60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,105.18	340.55
23 55 33 16-0007 EA 72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,327.08	389.20
23 55 33 16-0008 EA 81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,494.20	413.52
23 55 33 16-0009 EA 101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,558.57	413.52
23 55 33 16-0010 EA 121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,503.41	413.52
23 55 33 16-0011 EA 141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,935.16	437.85
23 55 33 16-0012 EA 162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,186.48	437.85
23 55 33 16-0013 EA 202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	3,394.88	437.85
23 55 33 16-0014 EA 243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,029.71	486.51
23 55 33 16-0015 EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,501.69	486.51
23 55 33 16-0016 EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	4,839.98	535.15
 23 55 33 16-0017 Removal And Reinstallation Of Unit Heaters <small>(23 55 33 16)</small>		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 55 33 16-0018 EA Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater.....	810.11	
23 55 33 16-0019 EA Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater	1,091.89	
 23 57 Heat Exchangers for HVAC <small>(23 57)</small>		
23 57 13 Steam-To-Steam Heat Exchangers <small>(23 57)</small>		
23 57 13 00-0001 Steam Generator Heat Exchanger <small>(23 57 13)</small>		
Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.		
23 57 13 00-0002 EA 75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	19,082.33	2,254.23
23 57 13 00-0003 EA 300 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	25,367.33	2,395.13
23 57 13 00-0004 EA 525 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	33,855.87	2,858.40
 23 57 16 Steam-To-Water Heat Exchangers <small>(23 57)</small>		
23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI <small>(23 57 16)</small>		
Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.		
23 57 16 00-0002 EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,205.40	352.23
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0003 EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,192.00	352.23
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0004 EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	4,771.09	493.12
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0005 EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	7,608.06	493.12
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0006 EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	9,993.60	580.47
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0007 EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	13,061.23	708.62
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0008 EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	16,166.27	1,063.59
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		
23 57 16 00-0009 EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	24,286.88	1,063.59
<i>For Bronze Head And Tube Sheet, Add</i>		
<i>For Copper Nickel Tubes, Add</i>		
<i>For Double Wall Tube Bundles, Add</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 57 Heat Exchangers for HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)****23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)****23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)**

23 57 19 13-0002	EA	8" W x 18-7/8"H Plate And Frame Heat Exchanger	3,467.37	352.23
23 57 19 13-0003	EA	8" W x 24-9/16"H Plate And Frame Heat Exchanger	4,545.58	352.23
23 57 19 13-0004	EA	11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger	6,034.18	422.67
23 57 19 13-0005	EA	16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger	8,126.39	457.90
23 57 19 13-0006	EA	16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger	8,867.66	457.90
23 57 19 13-0007	EA	24" W x 57-11/16"H Plate And Frame Heat Exchanger	11,498.94	493.12
23 57 19 13-0008	EA	26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger	12,105.44	493.12
23 57 19 13-0009	EA	24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger	14,941.76	563.56
23 57 19 13-0010	EA	24" W x 69-11/16"H Plate And Frame Heat Exchanger	18,249.81	634.00
23 57 19 13-0011	EA	26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger	18,923.69	634.00
23 57 19 13-0012	EA	24" W x 89-13/16"H Plate And Frame Heat Exchanger	23,363.69	717.93
23 57 19 13-0013	EA	26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger	28,159.55	789.58
23 57 19 13-0014	EA	40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger	32,483.50	861.24

23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)**23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)**

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.

23 57 19 19-0002	EA	7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	2,602.15	352.23
		<i>For Copper Nickel Tubes, Add</i>	213.25	
		<i>For Double Wall Tube Bundles, Add</i>	319.88	
23 57 19 19-0003	EA	16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	3,588.75	352.23
		<i>For Copper Nickel Tubes, Add</i>	302.52	
		<i>For Double Wall Tube Bundles, Add</i>	453.78	
23 57 19 19-0004	EA	34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	5,316.61	493.12
		<i>For Copper Nickel Tubes, Add</i>	461.22	
		<i>For Double Wall Tube Bundles, Add</i>	691.83	
23 57 19 19-0005	EA	55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	7,584.76	493.12
		<i>For Copper Nickel Tubes, Add</i>	664.55	
		<i>For Double Wall Tube Bundles, Add</i>	996.83	
23 57 19 19-0006	EA	74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	9,408.01	563.56
		<i>For Copper Nickel Tubes, Add</i>	818.29	
		<i>For Double Wall Tube Bundles, Add</i>	1,227.43	
23 57 19 19-0007	EA	86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	12,492.75	563.56
		<i>For Copper Nickel Tubes, Add</i>	1,100.97	
		<i>For Double Wall Tube Bundles, Add</i>	1,651.46	
23 57 19 19-0008	EA	112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	15,408.25	531.80
		<i>For Copper Nickel Tubes, Add</i>	1,368.77	
		<i>For Double Wall Tube Bundles, Add</i>	2,053.16	
23 57 19 19-0009	EA	126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	19,149.28	531.80
		<i>For Copper Nickel Tubes, Add</i>	1,706.01	
		<i>For Double Wall Tube Bundles, Add</i>	2,559.01	
23 57 19 19-0010	EA	152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube	24,480.01	531.80
		<i>For Copper Nickel Tubes, Add</i>	2,182.10	
		<i>For Double Wall Tube Bundles, Add</i>	3,273.15	

23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)**23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)**

23 57 19 23-0002	EA	10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	2,950.67	281.78
		<i>For Copper Nickel Tubes, Add</i>	238.71	
		<i>For Double Wall Tube Bundles, Add</i>	358.07	
23 57 19 23-0003	EA	53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	7,690.42	469.59
		<i>For Copper Nickel Tubes, Add</i>	675.12	
		<i>For Double Wall Tube Bundles, Add</i>	1,012.67	
23 57 19 23-0004	EA	70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	10,349.66	612.59
		<i>For Copper Nickel Tubes, Add</i>	912.67	
		<i>For Double Wall Tube Bundles, Add</i>	1,369.00	
23 57 19 23-0005	EA	87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	11,153.55	741.50
		<i>For Copper Nickel Tubes, Add</i>	967.36	
		<i>For Double Wall Tube Bundles, Add</i>	1,451.04	
23 57 19 23-0006	EA	105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube	13,387.97	844.62
		<i>For Copper Nickel Tubes, Add</i>	1,167.15	
		<i>For Double Wall Tube Bundles, Add</i>	1,750.73	

23 60 Central Cooling Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 61 Refrigerant Compressors (23 60)**23 61 16 Reciprocating Refrigerant Compressors (23 61)**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 16 00-0001			Reciprocating Open Type Refrigerant Compressors ^(23 61 16)		
			Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.		
23 61 16 00-0002	EA		1/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	630.22	133.56
23 61 16 00-0003	EA		1/3 Ton Refrigerant Compressor, Reciprocating Open Type.....	730.38	133.56
23 61 16 00-0004	EA		1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	980.79	166.89
23 61 16 00-0005	EA		3/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,187.37	166.89
23 61 16 00-0006	EA		1 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,312.57	166.89
23 61 16 00-0007	EA		1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,333.22	173.63
23 61 16 00-0008	EA		1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,340.52	173.63
23 61 16 00-0009	EA		1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,469.50	186.99
23 61 16 00-0010	EA		2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,579.69	200.35
23 61 16 00-0011	EA		2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,719.07	213.70
23 61 16 00-0012	EA		3 Ton Refrigerant Compressor, Reciprocating Open Type.....	1,934.00	213.70
23 61 16 00-0013	EA		3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	2,161.02	227.05
23 61 16 00-0014	EA		4 Ton Refrigerant Compressor, Reciprocating Open Type.....	2,212.80	240.41
23 61 16 00-0015	EA		4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type.....	2,251.16	247.03
23 61 16 00-0016	EA		5 Ton Refrigerant Compressor, Reciprocating Open Type.....	3,767.57	1,293.18
23 61 16 00-0017	EA		7.5 Ton Refrigerant Compressor, Reciprocating Open Type.....	5,435.65	1,477.85
23 61 16 00-0018	EA		10 Ton Refrigerant Compressor, Reciprocating Open Type.....	7,103.91	1,662.66
23 61 16 00-0019	EA		12.5 Ton Refrigerant Compressor, Reciprocating Open Type.....	9,181.44	1,801.09
23 61 16 00-0020	EA		15 Ton Refrigerant Compressor, Reciprocating Open Type.....	11,259.37	1,939.77
23 61 16 00-0021	EA		20 Ton Refrigerant Compressor, Reciprocating Open Type.....	13,511.24	2,327.72
23 61 16 00-0022	EA		25 Ton Refrigerant Compressor, Reciprocating Open Type.....	16,103.53	2,501.85
23 61 16 00-0023	EA		30 Ton Refrigerant Compressor, Reciprocating Open Type.....	18,578.58	2,645.15
23 61 16 00-0024	EA		50 Ton Refrigerant Compressor, Reciprocating Open Type.....	24,095.85	2,984.30
23 61 16 00-0025	EA		60 Ton Refrigerant Compressor, Reciprocating Open Type.....	28,178.49	3,062.56
23 61 16 00-0026	EA		70 Ton Refrigerant Compressor, Reciprocating Open Type.....	34,904.18	3,140.70
23 61 16 00-0027	EA		75 Ton Refrigerant Compressor, Reciprocating Open Type.....	36,594.79	3,179.90
23 61 16 00-0028	EA		80 Ton Refrigerant Compressor, Reciprocating Open Type.....	38,215.83	3,218.96
23 61 16 00-0029	EA		90 Ton Refrigerant Compressor, Reciprocating Open Type.....	41,252.14	3,297.11
23 61 16 00-0030	EA		100 Ton Refrigerant Compressor, Reciprocating Open Type.....	44,014.44	3,375.50
23 61 16 00-0031	EA		110 Ton Refrigerant Compressor, Reciprocating Open Type.....	46,728.53	3,446.78
23 61 16 00-0032	EA		120 Ton Refrigerant Compressor, Reciprocating Open Type.....	48,930.81	3,523.92
23 61 16 00-0033	EA		130 Ton Refrigerant Compressor, Reciprocating Open Type.....	50,809.86	3,568.78
23 61 16 00-0034	EA		140 Ton Refrigerant Compressor, Reciprocating Open Type.....	52,510.76	3,679.19
23 61 16 00-0035	EA		150 Ton Refrigerant Compressor, Reciprocating Open Type.....	53,884.49	3,756.33
23 61 16 00-0036	EA		175 Ton Refrigerant Compressor, Reciprocating Open Type.....	55,296.05	3,859.26
23 61 16 00-0037	EA		185 Ton Refrigerant Compressor, Reciprocating Open Type.....	56,614.32	3,900.76
23 61 16 00-0038	EA		200 Ton Refrigerant Compressor, Reciprocating Open Type.....	57,968.49	3,965.31
23 61 16 00-0039	EA		225 Ton Refrigerant Compressor, Reciprocating Open Type.....	59,641.81	4,232.74
23 61 16 00-0040	EA		250 Ton Refrigerant Compressor, Reciprocating Open Type.....	61,251.39	4,460.91
23 61 16 00-0041			Reciprocating Hermetic Type Refrigerant Compressors ^(23 61 16)		
			Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.		
23 61 16 00-0042			Reciprocating Hermetic Type Refrigerant Compressors <5 Tons ^(23 61 16 00-0041)		
23 61 16 00-0043	EA		1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,111.38	133.56
23 61 16 00-0044	EA		1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,147.32	133.56
23 61 16 00-0045	EA		1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,250.03	166.89
23 61 16 00-0046	EA		3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,285.93	166.89
23 61 16 00-0047	EA		1 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,303.90	166.89
23 61 16 00-0048	EA		1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,345.98	173.63
23 61 16 00-0049	EA		1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,385.51	173.63
23 61 16 00-0050	EA		1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,487.67	186.99
23 61 16 00-0051	EA		2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,586.25	200.35
23 61 16 00-0052	EA		2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,720.72	213.70
23 61 16 00-0053	EA		3 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,792.58	213.70
23 61 16 00-0054	EA		3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	1,927.05	227.05
23 61 16 00-0055	EA		4 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	2,277.12	240.41
23 61 16 00-0056	EA		4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	2,488.03	247.03
23 61 16 00-0057			Reciprocating Hermetic Type Refrigerant Compressors ^(23 61 16 00-0041)		
23 61 16 00-0058	EA		5 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	3,201.49	665.06
23 61 16 00-0059	EA		10 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	5,968.73	831.33
23 61 16 00-0060	EA		15 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	9,860.15	1,012.07
23 61 16 00-0061	EA		20 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	12,524.71	1,163.86
23 61 16 00-0062	EA		25 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	13,834.55	1,293.18
23 61 16 00-0063	EA		30 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	15,344.44	1,454.83
23 61 16 00-0064	EA		35 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	19,784.72	1,662.66
23 61 16 00-0065	EA		40 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	25,311.25	1,662.66
23 61 16 00-0066	EA		50 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	31,229.54	1,939.77
23 61 16 00-0067	EA		60 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	35,128.99	2,078.33
23 61 16 00-0068	EA		70 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	37,111.55	2,178.06
23 61 16 00-0069	EA		75 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	38,165.09	2,285.66
23 61 16 00-0070	EA		80 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	39,232.82	2,294.52
23 61 16 00-0071	EA		90 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	41,209.26	2,402.50
23 61 16 00-0072	EA		100 Ton Refrigerant Compressor, Reciprocating Hermetic Type.....	43,202.75	2,501.85

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 61 19 Scroll Refrigerant Compressors (23 61)****23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)**

23 61 19 00-0002	EA	Up To 3 Ton Scroll Refrigerant Compressor.....	1,268.84	213.45
23 61 19 00-0003	EA	3.5 Ton Scroll Refrigerant Compressor.....	1,332.74	227.18
23 61 19 00-0004	EA	4 Ton Scroll Refrigerant Compressor.....	1,370.63	240.29
23 61 19 00-0005	EA	4.5 Ton Scroll Refrigerant Compressor.....	1,398.93	247.16
23 61 19 00-0006	EA	5 Ton Scroll Refrigerant Compressor.....	1,737.23	312.06
23 61 19 00-0007	EA	7.5 Ton Scroll Refrigerant Compressor.....	3,220.27	468.09
23 61 19 00-0008	EA	8.75 Ton Scroll Refrigerant Compressor.....	3,691.84	546.11
23 61 19 00-0009	EA	10 Ton Scroll Refrigerant Compressor.....	4,144.82	624.12
23 61 19 00-0010	EA	12 Ton Scroll Refrigerant Compressor.....	5,005.51	748.94
23 61 19 00-0011	EA	13.5 Ton Scroll Refrigerant Compressor.....	5,873.79	842.56
23 61 19 00-0012	EA	15 Ton Scroll Refrigerant Compressor.....	6,853.28	936.19
23 61 19 00-0013	EA	20 Ton Scroll Refrigerant Compressor.....	9,609.08	1,248.24
23 61 19 00-0014	EA	25 Ton Scroll Refrigerant Compressor.....	10,939.56	1,560.30
23 61 19 00-0015	EA	30 Ton Scroll Refrigerant Compressor.....	11,838.61	1,872.36

23 61 23 Rotary-Screw Refrigerant Compressors (23 61)**23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)**

23 61 23 00-0002	EA	75 Ton Refrigerant Compressor, Rotary Screw Type.....	44,739.86	3,179.90
23 61 23 00-0003	EA	80 Ton Refrigerant Compressor, Rotary Screw Type.....	46,087.14	3,218.96
23 61 23 00-0004	EA	90 Ton Refrigerant Compressor, Rotary Screw Type.....	49,006.07	3,297.11
23 61 23 00-0005	EA	100 Ton Refrigerant Compressor, Rotary Screw Type.....	51,895.66	3,375.50
23 61 23 00-0006	EA	110 Ton Refrigerant Compressor, Rotary Screw Type.....	55,503.49	3,446.78
23 61 23 00-0007	EA	120 Ton Refrigerant Compressor, Rotary Screw Type.....	58,876.39	3,523.92
23 61 23 00-0008	EA	130 Ton Refrigerant Compressor, Rotary Screw Type.....	62,171.33	3,568.78
23 61 23 00-0009	EA	140 Ton Refrigerant Compressor, Rotary Screw Type.....	65,592.56	3,679.19
23 61 23 00-0010	EA	150 Ton Refrigerant Compressor, Rotary Screw Type.....	68,968.83	3,756.33
23 61 23 00-0011	EA	170 Ton Refrigerant Compressor, Rotary Screw Type.....	73,712.76	3,859.26
23 61 23 00-0012	EA	185 Ton Refrigerant Compressor, Rotary Screw Type.....	77,034.61	3,900.76
23 61 23 00-0013	EA	200 Ton Refrigerant Compressor, Rotary Screw Type.....	78,586.72	3,965.31
23 61 23 00-0014	EA	215 Ton Refrigerant Compressor, Rotary Screw Type.....	88,185.48	4,232.74
23 61 23 00-0015	EA	225 Ton Refrigerant Compressor, Rotary Screw Type.....	97,643.35	4,460.91

23 62 Packaged Compressor and Condenser Units (23 60)**23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)****23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)**

Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0002	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	7,085.54	1,153.38
23 62 13 00-0003	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	15,267.26	1,235.76
23 62 13 00-0004	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	26,523.06	1,318.14
23 62 13 00-0005	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	31,364.39	1,400.53
23 62 13 00-0006	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	37,149.04	1,482.91
23 62 13 00-0007	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	41,171.89	1,647.68
23 62 13 00-0008	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	42,253.14	1,738.72
23 62 13 00-0009	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	45,463.59	1,973.63
23 62 13 00-0010	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	48,518.06	2,138.09
23 62 13 00-0011	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	55,574.71	2,302.56
23 62 13 00-0012	EA	75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	62,818.94	2,549.27
23 62 13 00-0013	EA	80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	66,382.53	2,648.60
23 62 13 00-0014	EA	90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	74,911.09	2,814.14
23 62 13 00-0015	EA	100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube.....	81,858.97	2,979.68

23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0017	EA	1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	6,780.91	1,153.38
23 62 13 00-0018	EA	5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	13,533.38	1,235.76
23 62 13 00-0019	EA	10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	20,913.73	1,318.14
23 62 13 00-0020	EA	15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	22,579.89	1,400.53
23 62 13 00-0021	EA	20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	24,246.07	1,482.91
23 62 13 00-0022	EA	25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	28,699.39	1,647.68
23 62 13 00-0023	EA	30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	32,340.40	1,738.72
23 62 13 00-0024	EA	40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	41,383.90	1,973.63
23 62 13 00-0025	EA	50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	46,397.27	2,138.09
23 62 13 00-0026	EA	60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems.....	50,180.58	2,302.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 62 13 00-0027 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	57,723.73	2,549.27
23 62 13 00-0028 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	61,125.71	2,648.60
23 62 13 00-0029 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	67,032.44	2,814.14
23 62 13 00-0030 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	76,391.22	2,979.68

23 62 13 00-0031 Packaged Chiller With Remote Air Cooled Condenser ^(23 62 13)

Note: With remote air cooled condenser rated by cooling capacity. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

23 62 13 00-0032 EA 15 Ton Packaged Chiller With Remote Air Cooled Condensers	36,927.88	9,589.27
<i>For Gas Fired Engine Driven, Add</i>	<i>5,947.91</i>	
23 62 13 00-0033 EA 20 Ton Packaged Chiller With Remote Air Cooled Condensers	41,300.13	10,107.61
<i>For Gas Fired Engine Driven, Add</i>	<i>6,744.65</i>	
23 62 13 00-0034 EA 25 Ton Packaged Chiller With Remote Air Cooled Condensers	47,539.67	10,999.35
<i>For Gas Fired Engine Driven, Add</i>	<i>7,858.85</i>	
23 62 13 00-0035 EA 30 Ton Packaged Chiller With Remote Air Cooled Condensers	52,819.14	11,686.87
<i>For Gas Fired Engine Driven, Add</i>	<i>8,811.67</i>	
23 62 13 00-0036 EA 40 Ton Packaged Chiller With Remote Air Cooled Condensers	65,090.25	12,895.85
<i>For Gas Fired Engine Driven, Add</i>	<i>11,084.64</i>	
23 62 13 00-0037 EA 50 Ton Packaged Chiller With Remote Air Cooled Condensers	71,336.86	13,356.36
<i>For Gas Fired Engine Driven, Add</i>	<i>12,264.91</i>	
23 62 13 00-0038 EA 60 Ton Packaged Chiller With Remote Air Cooled Condensers	77,452.83	14,383.80
<i>For Gas Fired Engine Driven, Add</i>	<i>13,334.07</i>	
23 62 13 00-0039 EA 70 Ton Packaged Chiller With Remote Air Cooled Condensers	93,140.16	15,390.16
<i>For Gas Fired Engine Driven, Add</i>	<i>16,291.83</i>	
23 62 13 00-0040 EA 75 Ton Packaged Chiller With Remote Air Cooled Condensers	94,190.74	15,683.67
<i>For Gas Fired Engine Driven, Add</i>	<i>16,486.76</i>	
23 62 13 00-0041 EA 80 Ton Packaged Chiller With Remote Air Cooled Condensers	96,111.86	16,365.63
<i>For Gas Fired Engine Driven, Add</i>	<i>16,768.75</i>	
23 62 13 00-0042 EA 90 Ton Packaged Chiller With Remote Air Cooled Condensers	106,087.87	17,109.55
<i>For Gas Fired Engine Driven, Add</i>	<i>18,652.43</i>	
23 62 13 00-0043 EA 100 Ton Packaged Chiller With Remote Air Cooled Condensers	116,841.89	17,924.32
<i>For Gas Fired Engine Driven, Add</i>	<i>20,681.08</i>	
23 62 13 00-0044 EA 110 Ton Packaged Chiller With Remote Air Cooled Condensers	128,989.07	18,820.48
<i>For Gas Fired Engine Driven, Add</i>	<i>22,976.15</i>	
23 62 13 00-0045 EA 120 Ton Packaged Chiller With Remote Air Cooled Condensers	139,189.62	19,811.07
<i>For Gas Fired Engine Driven, Add</i>	<i>24,867.75</i>	
23 62 13 00-0046 EA 140 Ton Packaged Chiller With Remote Air Cooled Condensers	153,095.83	20,911.65
<i>For Gas Fired Engine Driven, Add</i>	<i>27,483.99</i>	

23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units ^(23 62)

23 62 23 00-0001 Water Cooled Condensing Units ^(23 62 23)

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002 EA 5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	6,971.73	901.65
23 62 23 00-0003 EA 10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	10,552.59	1,316.79
23 62 23 00-0004 EA 15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	12,046.68	1,427.07
23 62 23 00-0005 EA 20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	14,913.36	1,712.48
23 62 23 00-0006 EA 30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	16,181.21	2,014.77
23 62 23 00-0007 EA 60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	33,542.13	2,846.61
23 62 23 00-0008 EA 80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	41,590.90	3,435.85
23 62 23 00-0009 EA 120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	57,134.37	3,759.35

23 63 Refrigerant Condensers ^(23 60)

23 63 13 Air-Cooled Refrigerant Condensers ^(23 63)

23 63 13 00-0001 Air Cooled Condensing Units ^(23 63 13)

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

23 63 13 00-0002 EA 6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	5,188.04	901.65
<i>For >10 To 25, Deduct</i>	<i>-114.67</i>	
<i>For >25 To 50, Deduct</i>	<i>-191.12</i>	
<i>For >50, Deduct</i>	<i>-305.79</i>	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	<i>838.32</i>	
<i>For Winter Start Control, Add</i>	<i>289.46</i>	
23 63 13 00-0003 EA 7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	6,208.58	1,070.30
<i>For >10 To 25, Deduct</i>	<i>-137.61</i>	
<i>For >25 To 50, Deduct</i>	<i>-229.35</i>	
<i>For >50, Deduct</i>	<i>-366.95</i>	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	<i>772.37</i>	
<i>For Winter Start Control, Add</i>	<i>253.91</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 63 Refrigerant Condensers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0004	EA		10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	8,029.68	1,316.79
			<i>For >10 To 25, Deduct</i>	-181.01	
			<i>For >25 To 50, Deduct</i>	-301.69	
			<i>For >50, Deduct</i>	-482.70	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	921.34	
			<i>For Winter Start Control, Add</i>	320.27	
23 63 13 00-0005	EA		12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	9,787.28	1,369.99
			<i>For >10 To 25, Deduct</i>	-231.35	
			<i>For >25 To 50, Deduct</i>	-385.58	
			<i>For >50, Deduct</i>	-616.92	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,058.74	
			<i>For Winter Start Control, Add</i>	361.80	
23 63 13 00-0006	EA		15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	11,551.53	1,427.07
			<i>For >10 To 25, Deduct</i>	-281.68	
			<i>For >25 To 50, Deduct</i>	-469.47	
			<i>For >50, Deduct</i>	-751.14	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,103.92	
			<i>For Winter Start Control, Add</i>	310.12	
23 63 13 00-0007	EA		20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	14,816.17	1,712.48
			<i>For >10 To 25, Deduct</i>	-366.64	
			<i>For >25 To 50, Deduct</i>	-611.07	
			<i>For >50, Deduct</i>	-977.72	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,381.96	
			<i>For Winter Start Control, Add</i>	381.68	
23 63 13 00-0008	EA		25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	16,795.76	1,842.22
			<i>For >10 To 25, Deduct</i>	-420.21	
			<i>For >25 To 50, Deduct</i>	-700.35	
			<i>For >50, Deduct</i>	-1,120.56	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,467.58	
			<i>For Winter Start Control, Add</i>	418.95	
23 63 13 00-0009	EA		30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	19,204.45	2,010.87
			<i>For >10 To 25, Deduct</i>	-484.86	
			<i>For >25 To 50, Deduct</i>	-808.10	
			<i>For >50, Deduct</i>	-1,292.95	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,568.73	
			<i>For Winter Start Control, Add</i>	465.87	
23 63 13 00-0010	EA		40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	26,042.06	2,264.51
			<i>For >10 To 25, Deduct</i>	-676.49	
			<i>For >25 To 50, Deduct</i>	-1,127.49	
			<i>For >50, Deduct</i>	-1,803.98	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,000.57	
			<i>For Winter Start Control, Add</i>	574.73	
23 63 13 00-0011	EA		50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	31,673.22	2,846.81
			<i>For >10 To 25, Deduct</i>	-818.49	
			<i>For >25 To 50, Deduct</i>	-1,364.14	
			<i>For >50, Deduct</i>	-2,182.63	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,188.91	
			<i>For Winter Start Control, Add</i>	575.45	
23 63 13 00-0012	EA		60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	36,376.58	3,142.00
			<i>For >10 To 25, Deduct</i>	-949.77	
			<i>For >25 To 50, Deduct</i>	-1,562.94	
			<i>For >50, Deduct</i>	-2,532.71	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,445.78	
			<i>For Winter Start Control, Add</i>	630.06	
23 63 13 00-0013	EA		80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	46,857.94	3,435.85
			<i>For >10 To 25, Deduct</i>	-1,246.78	
			<i>For >25 To 50, Deduct</i>	-2,077.96	
			<i>For >50, Deduct</i>	-3,324.74	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,987.05	
			<i>For Winter Start Control, Add</i>	737.67	
23 63 13 00-0014	EA		100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	64,326.64	3,093.61
			<i>For >10 To 25, Deduct</i>	-1,740.87	
			<i>For >25 To 50, Deduct</i>	-2,901.45	
			<i>For >50, Deduct</i>	-4,642.32	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	3,315.29	
			<i>For Winter Start Control, Add</i>	919.91	
23 63 13 00-0015	EA		120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	78,854.95	3,198.48
			<i>For >10 To 25, Deduct</i>	-2,170.31	
			<i>For >25 To 50, Deduct</i>	-3,617.19	
			<i>For >50, Deduct</i>	-5,787.50	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	3,798.10	

23 63 13 00-0016 Air Cooled Condensing Units (23 63 13)

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Excludes piping and power wiring.

23 63 13 00-0017	EA		1.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,055.20	419.92
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For >10 To 25, Deduct</i>	-42.76	
			<i>For >25 To 50, Deduct</i>	-71.27	
			<i>For >50, Deduct</i>	-114.03	
			<i>For 15 SEER, Add</i>	342.08	
			<i>For 16 SEER, Add</i>	584.39	
			<i>For 18 SEER, Add</i>	1,225.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0018 EA 2 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,215.99	466.80
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-45.48	
For >25 To 50, Deduct	-75.81	
For >50, Deduct	-121.29	
For 15 SEER, Add	363.87	
For 16 SEER, Add	621.62	
For 18 SEER, Add	1,303.88	
23 63 13 00-0019 EA 2.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,358.34	513.49
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-47.65	
For >25 To 50, Deduct	-79.42	
For >50, Deduct	-127.08	
For 15 SEER, Add	381.24	
For 16 SEER, Add	651.28	
For 18 SEER, Add	1,366.10	
23 63 13 00-0020 EA 3 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,697.68	559.88
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-55.74	
For >25 To 50, Deduct	-92.89	
For >50, Deduct	-148.63	
For 15 SEER, Add	445.88	
For 16 SEER, Add	761.72	
For 18 SEER, Add	1,597.75	
23 63 13 00-0021 EA 3.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,861.55	606.84
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-58.55	
For >25 To 50, Deduct	-97.59	
For >50, Deduct	-156.14	
For 15 SEER, Add	468.42	
For 16 SEER, Add	800.21	
For 18 SEER, Add	1,678.50	
23 63 13 00-0022 EA 4 Ton, 14 SEER, Air Cooled Condensing Unit.....	3,180.90	653.53
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-66.03	
For >25 To 50, Deduct	-110.06	
For >50, Deduct	-176.09	
For 15 SEER, Add	528.26	
For 16 SEER, Add	902.45	
For 18 SEER, Add	1,892.95	
23 63 13 00-0023 EA 5 Ton, 14 SEER, Air Cooled Condensing Unit.....	3,576.36	699.85
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For >10 To 25, Deduct	-75.80	
For >25 To 50, Deduct	-126.33	
For >50, Deduct	-202.13	
For 15 SEER, Add	606.38	
For 16 SEER, Add	1,035.90	
For 18 SEER, Add	2,172.86	
23 63 13 00-0024 Removal And Reinstallation Of AC Condensing Unit (23 63 13)		
Note: Includes storage and cleaning.		
23 63 13 00-0025 EA Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit	430.20	
23 63 13 00-0026 EA Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit.....	1,613.25	
23 63 13 00-0027 EA Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....	2,725.49	

23 64 Packaged Water Chillers (23 60)

23 64 13 Absorption Water Chillers (23 64)

23 64 13 16 Indirect-Fired Absorption Water Chillers (23 64 13)

23 64 13 16-0001 Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16)

Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.

23 64 13 16-0002 EA 50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	144,511.21	7,654.52
For Two Stage Unit, Add	96,282.29	
23 64 13 16-0003 EA 100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	183,625.01	9,125.13
For Two Stage Unit, Add	122,674.32	
23 64 13 16-0004 EA 150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	233,005.24	9,368.41
For Two Stage Unit, Add	157,084.12	
23 64 13 16-0005 EA 200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	258,286.50	9,546.62
For Two Stage Unit, Add	174,666.50	
23 64 13 16-0006 EA 250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	288,998.21	9,785.90
For Two Stage Unit, Add	196,010.92	
23 64 13 16-0007 EA 300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	326,584.95	10,363.27
For Two Stage Unit, Add	221,950.68	
23 64 13 16-0008 EA 350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	350,315.96	10,613.71
For Two Stage Unit, Add	238,401.44	
23 64 13 16-0009 EA 400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller.....	417,666.26	11,047.62
For Two Stage Unit, Add	285,267.87	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 13 16-0010 EA 500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	468,173.14	11,369.42
For Two Stage Unit, Add	320,415.93	
23 64 13 16-0011 EA 650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	575,658.56	16,041.83
For Two Stage Unit, Add	392,653.55	
23 64 13 16-0012 EA 750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	626,564.96	18,687.05
For Two Stage Unit, Add	426,588.40	
23 64 13 16-0013 EA 850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	671,223.75	19,517.50
For Two Stage Unit, Add	457,315.91	
23 64 13 16-0014 EA 950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	717,573.07	19,534.11
For Two Stage Unit, Add	489,883.63	
23 64 13 16-0015 EA 1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	821,961.50	20,211.08
For Two Stage Unit, Add	562,525.23	
23 64 13 16-0016 EA 1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	899,596.08	20,829.78
For Two Stage Unit, Add	616,476.13	
23 64 13 16-0017 EA 1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	1,057,269.24	25,676.92
For Two Stage Unit, Add	723,766.07	
23 64 13 16-0018 EA 1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller	1,236,395.73	27,037.35
For Two Stage Unit, Add	848,289.86	

23 64 16 Centrifugal Water Chillers (23 64)**23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)****23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers (23 64 16 16)**

Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 16 16-0002 EA 180 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	146,829.40	7,155.10
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	5,413.43	
23 64 16 16-0003 EA 200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	160,390.94	7,336.32
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	5,944.10	
23 64 16 16-0004 EA 225 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	176,772.76	7,522.80
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	6,587.54	
23 64 16 16-0005 EA 250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	192,790.12	7,824.41
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	7,208.86	
23 64 16 16-0006 EA 275 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	208,479.76	8,266.21
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	7,808.05	
23 64 16 16-0007 EA 300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	223,596.79	8,695.98
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	8,385.13	
23 64 16 16-0008 EA 325 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	238,234.83	9,172.79
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	8,940.01	
23 64 16 16-0009 EA 350 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	252,282.17	9,625.13
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	9,472.84	
23 64 16 16-0010 EA 375 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	265,710.81	10,037.59
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	9,983.48	
23 64 16 16-0011 EA 400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	278,446.97	10,363.27
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	10,472.00	
23 64 16 16-0012 EA 425 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	290,931.51	10,876.69
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	10,938.40	
23 64 16 16-0013 EA 450 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	302,712.52	11,296.31
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	11,382.67	
23 64 16 16-0014 EA 475 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	313,931.67	11,710.52
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	11,804.82	
23 64 16 16-0015 EA 500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	324,447.81	12,031.31
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	12,204.85	
23 64 16 16-0016 EA 550 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	343,473.86	12,457.95
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	12,938.48	
23 64 16 16-0017 EA 600 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	360,037.42	12,728.83
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	13,583.62	
23 64 16 16-0018 EA 650 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	374,962.78	13,358.00
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	14,140.21	
23 64 16 16-0019 EA 700 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	387,691.09	13,996.69
Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
For 208/230 Voltage Motor Rating, Add	14,608.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0020	EA		750 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	398,313.48 14,988.05	14,699.35
23 64 16 16-0021	EA		800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	423,032.66 15,931.25	15,408.53
23 64 16 16-0022	EA		850 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	447,577.88 16,867.64	16,115.45
23 64 16 16-0023	EA		900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	472,058.82 17,797.10	16,890.21
23 64 16 16-0024	EA		950 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	496,490.40 18,719.55	17,743.23
23 64 16 16-0025	EA		1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	519,711.23 19,635.00	18,145.04
23 64 16 16-0026	EA		1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	564,116.25 21,233.75	20,936.66
23 64 16 16-0027	EA		1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	606,878.29 22,766.26	23,736.23
23 64 16 16-0028	EA		1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	647,135.92 24,232.40	26,004.02
23 64 16 16-0029	EA		1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	684,349.23 25,632.18	27,400.33
23 64 16 16-0030	EA		1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	719,826.21 26,965.40	28,750.96
23 64 16 16-0031	EA		1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	752,838.22 28,232.90	29,584.38
23 64 16 16-0032	EA		1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	786,141.92 29,433.85	31,648.35
23 64 16 16-0033	EA		1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	816,959.76 30,568.42	33,192.16
23 64 16 16-0034	EA		1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	846,848.14 31,636.63	35,195.16
23 64 16 16-0035	EA		2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	873,895.08 32,638.61	36,452.16
23 64 16 16-0036	EA		2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	930,317.41 34,853.37	38,515.50
23 64 16 16-0037	EA		2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	981,222.43 36,653.64	40,826.39

23 64 23 Scroll Water Chillers (23 64)

23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)

23 64 23 13-0001 Packaged Air Cooled Scroll Water Chillers (23 64 23 13)

Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type. Includes scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.

23 64 23 13-0002	EA	10 Ton Packaged Air Cooled Scroll Water Chiller	23,296.28	2,046.40
23 64 23 13-0003	EA	15 Ton Packaged Air Cooled Scroll Water Chiller	33,809.71	2,072.63
23 64 23 13-0004	EA	18 Ton Packaged Air Cooled Scroll Water Chiller	36,878.07	2,216.93
23 64 23 13-0005	EA	22 Ton Packaged Air Cooled Scroll Water Chiller	40,537.82	2,374.35
23 64 23 13-0006	EA	25 Ton Packaged Air Cooled Scroll Water Chiller	41,256.91	2,531.76
23 64 23 13-0007	EA	30 Ton Packaged Air Cooled Scroll Water Chiller	43,559.58	2,715.41
23 64 23 13-0008	EA	40 Ton Packaged Air Cooled Scroll Water Chiller	49,722.81	2,938.41
23 64 23 13-0009	EA	45 Ton Packaged Air Cooled Scroll Water Chiller	53,408.92	3,187.65
23 64 23 13-0010	EA	50 Ton Packaged Air Cooled Scroll Water Chiller	56,358.81	3,279.48
23 64 23 13-0011	EA	55 Ton Packaged Air Cooled Scroll Water Chiller	58,861.07	3,423.78
23 64 23 13-0012	EA	60 Ton Packaged Air Cooled Scroll Water Chiller	60,839.67	3,541.84
23 64 23 13-0013	EA	70 Ton Packaged Air Cooled Scroll Water Chiller	70,140.51	3,987.85
23 64 23 13-0014	EA	80 Ton Packaged Air Cooled Scroll Water Chiller	75,542.17	4,368.27
23 64 23 13-0015	EA	90 Ton Packaged Air Cooled Scroll Water Chiller	76,880.99	4,381.39
23 64 23 13-0016	EA	100 Ton Packaged Air Cooled Scroll Water Chiller	81,221.20	4,394.51
23 64 23 13-0017	EA	110 Ton Packaged Air Cooled Scroll Water Chiller	85,442.75	4,407.63

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 64 Packaged Water Chillers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 23 13-0018 EA 120 Ton Packaged Air Cooled Scroll Water Chiller.....	89,716.73	4,420.74
23 64 23 13-0019 EA 130 Ton Packaged Air Cooled Scroll Water Chiller.....	94,214.13	4,433.86
23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)		
23 64 23 16-0001 Packaged Water Cooled Scroll Water Chillers (23 64 23 16)		
Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.		
23 64 23 16-0002 EA 20 Ton Packaged Water Cooled Scroll Water Chiller	43,819.17	2,402.12
23 64 23 16-0003 EA 25 Ton Packaged Water Cooled Scroll Water Chiller	50,491.28	2,474.68
23 64 23 16-0004 EA 30 Ton Packaged Water Cooled Scroll Water Chiller	56,021.12	2,716.69
23 64 23 16-0005 EA 40 Ton Packaged Water Cooled Scroll Water Chiller	68,684.27	3,339.09
23 64 23 16-0006 EA 50 Ton Packaged Water Cooled Scroll Water Chiller	75,992.96	3,659.31
23 64 23 16-0007 EA 60 Ton Packaged Water Cooled Scroll Water Chiller	79,794.07	4,043.07
23 64 26 Rotary-Screw Water Chillers (23 64)		
23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers (23 64 26)		
23 64 26 13-0001 Packaged Air Cooled Rotary-Screw Water Chillers (23 64 26 13)		
Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 voltage motor rating, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.		
23 64 26 13-0002 EA 70 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	99,450.08	5,024.16
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,378.81	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	3,676.82	
23 64 26 13-0003 EA 80 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	106,899.22	5,457.06
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,480.90	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	3,949.07	
23 64 26 13-0004 EA 90 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	112,438.10	5,693.18
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,558.48	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	4,155.93	
23 64 26 13-0005 EA 100 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	116,658.71	6,126.07
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,612.14	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	4,299.05	
23 64 26 13-0006 EA 110 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	125,155.52	6,427.79
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,732.90	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	4,621.08	
23 64 26 13-0007 EA 120 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	132,921.27	6,558.96
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,846.24	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	4,923.31	
23 64 26 13-0008 EA 130 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	140,269.11	6,781.96
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-1,951.54	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	5,204.11	
23 64 26 13-0009 EA 140 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	144,734.59	6,926.27
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,015.18	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	5,373.81	
23 64 26 13-0010 EA 160 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	152,760.23	7,070.56
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,132.22	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	5,685.91	
23 64 26 13-0011 EA 170 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	159,427.15	7,293.56
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,227.30	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	5,939.47	
23 64 26 13-0012 EA 180 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	168,083.38	7,582.16
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,350.65	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	6,268.41	
23 64 26 13-0013 EA 200 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	175,638.81	7,739.58
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,460.64	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	6,561.70	
23 64 26 13-0014 EA 215 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	188,151.88	7,870.75
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,645.19	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	7,053.83	
23 64 26 13-0015 EA 225 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	196,458.95	7,949.46
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,768.22	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	7,381.92	
23 64 26 13-0016 EA 240 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	204,766.03	8,015.05
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-2,891.25	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	7,710.00	
23 64 26 13-0017 EA 260 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	229,608.53	8,172.47
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-3,260.35	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	8,694.26	
23 64 26 13-0018 EA 280 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	242,134.73	8,329.88
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-3,444.89	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	9,186.38	
23 64 26 13-0019 EA 300 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	258,748.87	8,461.06
<i>For Aluminum Fins Instead Of Copper, Deduct</i>		
	-3,690.96	
<i>For 208/230 Voltage Motor Rating, Add</i>		
	9,842.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 26 13-0020	EA		325 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	283,565.14 -4,060.05 10,826.81	8,605.36
23 64 26 13-0021	EA		350 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Voltage Motor Rating, Add</i>	308,938.59 -4,438.10 11,834.93	8,710.30

23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)

23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

23 64 26 16-0002	EA		70 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	85,611.79	5,643.32
23 64 26 16-0003	EA		80 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	92,979.37	5,862.78
23 64 26 16-0004	EA		90 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	99,375.16	6,019.54
23 64 26 16-0005	EA		100 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	104,922.72	6,273.50
23 64 26 16-0006	EA		110 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	110,448.69	6,445.93
23 64 26 16-0007	EA		125 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	117,182.79	6,626.89
23 64 26 16-0008	EA		130 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	120,192.80	6,812.12
23 64 26 16-0009	EA		150 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	130,202.64	6,996.46
23 64 26 16-0010	EA		175 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	139,933.65	7,169.65
23 64 26 16-0011	EA		190 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	144,715.77	7,528.19
23 64 26 16-0012	EA		200 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	175,870.80	7,891.24
23 64 26 16-0013	EA		210 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	178,243.65	8,060.17
23 64 26 16-0014	EA		235 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	193,816.85	8,236.50
23 64 26 16-0015	EA		255 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	205,944.12	8,613.47
23 64 26 16-0016	EA		275 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	217,419.04	8,962.10
23 64 26 16-0017	EA		300 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	230,785.82	9,317.12
23 64 26 16-0018	EA		350 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	253,347.25	10,142.94
23 64 26 16-0019	EA		400 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	271,767.97	11,156.22
23 64 26 16-0020	EA		450 Ton Packaged Water Cooled Helical Rotary Water Chiller.....	286,067.06	12,272.34

23 65 Cooling Towers (23 60)

23 65 13 Forced-Draft Cooling Towers (23 65)

23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)

23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)

23 65 13 16-0002 Blow-Thru Centrifugal Fan Type Galvanized Cooling Towers (23 65 13 16-0001)

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

23 65 13 16-0003	EA		50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	18,723.29 9,274.16	2,177.57
23 65 13 16-0004	EA		75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	25,683.91 13,025.51	2,662.94
23 65 13 16-0005	EA		100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	32,297.73 16,151.63	3,345.07
23 65 13 16-0006	EA		125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	37,203.06 18,717.03	3,738.61
23 65 13 16-0007	EA		150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	42,495.95 21,436.26	4,210.85
23 65 13 16-0008	EA		175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	47,775.15 24,115.79	4,722.45
23 65 13 16-0009	EA		200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	53,603.04 27,093.05	5,260.28
23 65 13 16-0010	EA		225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	58,648.38 29,474.86	5,929.30
23 65 13 16-0011	EA		250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	63,945.26 32,015.45	6,585.20
23 65 13 16-0012	EA		275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	70,240.23 34,635.44	7,792.04
23 65 13 16-0013	EA		300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	76,401.19 37,513.46	8,631.59
23 65 13 16-0014	EA		325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	80,522.56 39,498.29	9,182.55
23 65 13 16-0015	EA		350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	85,340.92 41,830.48	9,720.38
23 65 13 16-0016	EA		375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	89,988.74 44,162.67	10,192.63
23 65 13 16-0017	EA		400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	95,285.05 46,891.82	10,664.87
23 65 13 16-0018	EA		425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	100,930.41 49,720.22	11,242.06
23 65 13 16-0019	EA		450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	107,306.96 52,995.20	11,819.24

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 65 Cooling Towers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 13 16-0020 EA 475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	113,482.77 56,220.56	12,317.73
23 65 13 16-0021 EA 500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	119,671.69 59,445.93	12,816.21
23 65 13 16-0022 EA 550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	131,275.57 65,896.66	13,354.04
23 65 13 16-0023 EA 600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	143,871.87 72,942.83	13,878.76
23 65 13 16-0024 EA 650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	148,938.91 75,920.09	14,167.36
23 65 13 16-0025 EA 700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	154,998.35 79,492.80	14,351.01
23 65 13 16-0026 EA 750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	162,272.66 83,164.75	15,085.62
23 65 13 16-0027 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	170,704.78 87,531.40	15,820.21
23 65 13 16-0028 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	179,241.85 91,898.05	16,620.41
23 65 13 16-0029 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	189,102.14 97,058.63	17,420.61
23 65 13 16-0030 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	199,311.49 102,318.45	18,338.86
23 65 13 16-0031 EA 1,000 Ton Centrifugal Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	210,830.92 108,372.21	19,257.12

23 65 14 Induced-Draft Cooling Towers (23 65)

23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)

23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers

(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

23 65 14 13-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,671.77 1,120.19 2,240.39	1,469.21
23 65 14 13-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,418.49 1,354.65 2,709.31	1,587.27
23 65 14 13-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	13,617.48 1,641.21 3,282.43	1,784.04
23 65 14 13-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,108.67 1,823.57 3,647.14	1,967.69
23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	17,854.93 2,188.29 4,376.57	2,177.57
23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	20,717.19 2,580.24 5,160.48	2,348.11
23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	23,773.50 2,969.82 5,939.63	2,662.94
23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	29,692.63 3,647.14 7,294.28	3,345.07
23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	32,406.37 3,959.75 7,919.51	3,738.61
23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	49,008.14 6,335.89 12,671.79	4,210.85
23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	59,354.94 7,636.05 15,272.10	5,260.28
23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	77,383.35 9,525.69 19,051.38	8,631.59

23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers (23 65 14 13)

Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.

23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	29,692.63 3,647.14 7,294.28	3,345.07
23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	39,477.34 4,906.27 9,812.55	4,210.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	50,129.57 6,252.24 12,504.49	5,260.28
23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	59,595.15 7,351.35 14,702.69	6,585.20
23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	71,083.47 8,580.71 17,161.41	8,631.59
23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	79,262.35 9,545.84 19,091.67	9,720.38
23 65 14 13-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	88,338.11 10,680.92 21,361.83	10,664.87
23 65 14 13-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	100,029.22 12,157.14 24,314.28	11,819.24
23 65 14 13-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	112,642.05 13,807.04 27,614.07	12,816.21
23 65 14 13-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	120,524.36 14,861.48 29,722.97	13,511.46
23 65 14 13-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	129,030.24 16,009.46 32,018.93	13,878.76
23 65 14 13-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	145,818.47 18,496.22 36,992.44	14,351.01
23 65 14 13-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	159,953.56 20,270.17 40,540.34	15,820.21
23 65 14 13-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	176,696.89 22,403.87 44,807.74	17,420.61

23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers (23 65 14)

23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers (23 65 14 14)

Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.

23 65 14 14-0002 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	8,286.54 912.41 1,824.82	1,469.21
23 65 14 14-0003 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	8,913.21 1,002.48 2,004.95	1,495.44
23 65 14 14-0004 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,697.44 1,088.63 2,177.25	1,626.63
23 65 14 14-0005 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,277.45 1,307.92 2,615.84	1,705.33
23 65 14 14-0006 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	12,726.92 1,507.63 3,015.26	1,784.04
23 65 14 14-0007 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	14,150.42 1,699.51 3,399.02	1,875.87
23 65 14 14-0008 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,456.38 1,875.73 3,751.46	1,967.69
23 65 14 14-0009 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	16,905.98 2,071.52 4,143.05	2,072.63
23 65 14 14-0010 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	18,329.61 2,259.49 4,518.98	2,177.57
23 65 14 14-0011 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	21,111.15 2,639.33 5,278.67	2,348.11
23 65 14 14-0012 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	24,127.77 3,050.50 6,101.01	2,531.76
23 65 14 14-0013 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	25,538.41 3,234.55 6,469.10	2,662.94
23 65 14 14-0014 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	27,106.47 3,418.60 6,837.20	2,885.95

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0015 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	28,282.94	3,108.95
<i>For Polymer Coating Over Galvanized Components, Add</i>	3,543.91	
<i>For Stainless Steel Support Structure, Add</i>	7,087.82	
23 65 14 14-0016 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	30,492.47	3,345.07
<i>For Polymer Coating Over Galvanized Components, Add</i>	3,767.12	
<i>For Stainless Steel Support Structure, Add</i>	7,534.24	
23 65 14 14-0017 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	31,826.99	3,738.61
<i>For Polymer Coating Over Galvanized Components, Add</i>	3,872.85	
<i>For Stainless Steel Support Structure, Add</i>	7,745.69	
23 65 14 14-0018 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	36,921.45	4,210.85
<i>For Polymer Coating Over Galvanized Components, Add</i>	4,522.89	
<i>For Stainless Steel Support Structure, Add</i>	9,045.78	
23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	40,815.29	4,722.45
<i>For Polymer Coating Over Galvanized Components, Add</i>	4,984.97	
<i>For Stainless Steel Support Structure, Add</i>	9,969.94	
23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	43,064.70	5,260.28
<i>For Polymer Coating Over Galvanized Components, Add</i>	5,192.51	
<i>For Stainless Steel Support Structure, Add</i>	10,385.03	
23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	49,727.09	5,929.30
<i>For Polymer Coating Over Galvanized Components, Add</i>	6,030.52	
<i>For Stainless Steel Support Structure, Add</i>	12,061.04	
23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	54,548.93	6,585.20
<i>For Polymer Coating Over Galvanized Components, Add</i>	6,594.41	
<i>For Stainless Steel Support Structure, Add</i>	13,188.83	
23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	58,591.85	7,792.04
<i>For Polymer Coating Over Galvanized Components, Add</i>	6,911.60	
<i>For Stainless Steel Support Structure, Add</i>	13,823.21	
23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	63,297.70	8,631.59
<i>For Polymer Coating Over Galvanized Components, Add</i>	7,412.84	
<i>For Stainless Steel Support Structure, Add</i>	14,825.68	
23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	72,299.90	9,720.38
<i>For Polymer Coating Over Galvanized Components, Add</i>	8,501.47	
<i>For Stainless Steel Support Structure, Add</i>	17,002.94	
23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	79,682.35	10,664.87
<i>For Polymer Coating Over Galvanized Components, Add</i>	9,382.55	
<i>For Stainless Steel Support Structure, Add</i>	18,765.10	
23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	88,084.61	11,819.24
<i>For Polymer Coating Over Galvanized Components, Add</i>	10,365.45	
<i>For Stainless Steel Support Structure, Add</i>	20,730.89	
23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	95,963.60	12,816.21
<i>For Polymer Coating Over Galvanized Components, Add</i>	11,305.27	
<i>For Stainless Steel Support Structure, Add</i>	22,610.54	
23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	109,416.70	13,878.76
<i>For Polymer Coating Over Galvanized Components, Add</i>	13,067.43	
<i>For Stainless Steel Support Structure, Add</i>	26,134.87	
23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	122,183.63	14,351.01
<i>For Polymer Coating Over Galvanized Components, Add</i>	14,950.99	
<i>For Stainless Steel Support Structure, Add</i>	29,901.98	
23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	136,501.22	15,820.21
<i>For Polymer Coating Over Galvanized Components, Add</i>	16,752.32	
<i>For Stainless Steel Support Structure, Add</i>	33,504.63	
23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	150,454.36	17,420.61
<i>For Polymer Coating Over Galvanized Components, Add</i>	18,467.49	
<i>For Stainless Steel Support Structure, Add</i>	36,934.98	
23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	164,213.44	19,257.12
<i>For Polymer Coating Over Galvanized Components, Add</i>	20,100.43	
<i>For Stainless Steel Support Structure, Add</i>	40,200.86	
23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	179,427.46	20,188.49
<i>For Polymer Coating Over Galvanized Components, Add</i>	22,164.12	
<i>For Stainless Steel Support Structure, Add</i>	44,328.24	
23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	194,092.90	21,054.28
<i>For Polymer Coating Over Galvanized Components, Add</i>	24,157.33	
<i>For Stainless Steel Support Structure, Add</i>	48,314.65	
23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	206,611.73	22,864.54
<i>For Polymer Coating Over Galvanized Components, Add</i>	25,610.13	
<i>For Stainless Steel Support Structure, Add</i>	51,220.27	
23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	218,792.25	24,805.99
<i>For Polymer Coating Over Galvanized Components, Add</i>	26,980.71	
<i>For Stainless Steel Support Structure, Add</i>	53,961.41	
23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	230,595.09	26,852.38
<i>For Polymer Coating Over Galvanized Components, Add</i>	28,269.05	
<i>For Stainless Steel Support Structure, Add</i>	56,538.09	
23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	241,469.51	28,702.02
<i>For Polymer Coating Over Galvanized Components, Add</i>	29,467.32	
<i>For Stainless Steel Support Structure, Add</i>	58,934.63	
23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	252,202.48	30,814.00
<i>For Polymer Coating Over Galvanized Components, Add</i>	30,579.44	
<i>For Stainless Steel Support Structure, Add</i>	61,158.88	
23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	262,911.90	33,253.95
<i>For Polymer Coating Over Galvanized Components, Add</i>	31,609.33	
<i>For Stainless Steel Support Structure, Add</i>	63,218.65	
23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	273,007.87	35,693.87
<i>For Polymer Coating Over Galvanized Components, Add</i>	32,549.15	
<i>For Stainless Steel Support Structure, Add</i>	65,098.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	283,946.07 33,406.74 66,813.47	39,025.83
23 65 14 14-0044 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers ^(23 65 14 14)		
<i>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.</i>		
23 65 14 14-0045 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	79,769.03 3,719.53	3,345.07
23 65 14 14-0046 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	90,392.75 4,219.24	3,712.37
23 65 14 14-0047 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	98,834.13 4,603.26	4,210.85
23 65 14 14-0048 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	110,074.97 5,081.35	5,260.28
23 65 14 14-0049 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	124,906.34 5,716.01	6,585.20
23 65 14 14-0050 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	143,789.81 6,495.55	8,631.59
23 65 14 14-0051 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	156,767.11 7,057.18	9,720.38
23 65 14 14-0052 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	169,508.27 7,618.81	10,664.87
23 65 14 14-0053 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	195,829.98 8,761.74	12,816.21
23 65 14 14-0054 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	220,981.69 9,934.06	13,878.76
23 65 14 14-0055 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	273,074.47 12,407.52	15,085.62
23 65 14 14-0056 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	353,972.46 16,188.09	19,257.12
23 65 14 16 Closed-Circuit, Induced-Draft Counterflow Cooling Towers ^(23 65 14)		
23 65 14 16-0001 Stainless Steel Packaged Propeller Type Cooling Towers ^(23 65 14 16)		
<i>Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.</i>		
23 65 14 16-0002 Draw-Thru Stainless Steel Propeller Type Cooling Towers ^(23 65 14 16-0001)		
<i>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.</i>		
23 65 14 16-0003 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	33,747.06	2,177.57
23 65 14 16-0004 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	47,814.60	2,662.94
23 65 14 16-0005 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	56,509.28	3,345.07
23 65 14 16-0006 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	64,040.53	3,738.61
23 65 14 16-0007 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	70,293.04	4,210.85
23 65 14 16-0008 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	84,365.39	5,260.28
23 65 14 16-0009 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	99,434.35	6,585.20
23 65 14 16-0010 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	118,173.71	8,631.59
23 65 14 16-0011 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	129,468.45	9,720.38
23 65 14 16-0012 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	146,653.58	10,664.87
23 65 14 16-0013 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	170,167.14	12,816.21
23 65 14 16-0014 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	191,887.86	13,878.76
23 65 14 16-0015 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	236,734.96	15,085.62
23 65 14 16-0016 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	301,191.28	19,047.22
23 65 14 16-0017 Belt Driven Stainless Steel Propeller Type Cooling Towers ^(23 65 14 16-0001)		
<i>Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.</i>		
23 65 14 16-0018 EA 100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	58,811.11	3,345.07
23 65 14 16-0019 EA 125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	63,682.21	3,738.61
23 65 14 16-0020 EA 150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	68,688.38	4,210.85
23 65 14 16-0021 EA 200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	81,331.34	5,260.28
23 65 14 16-0022 EA 250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	89,934.93	6,585.20
23 65 14 16-0023 Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers ^(23 65 14 16)		
<i>Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.</i>		
23 65 14 16-0024 EA 5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,371.09	1,364.27
23 65 14 16-0025 EA 8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,600.35	1,429.85
23 65 14 16-0026 EA 10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	5,261.96	1,469.21
23 65 14 16-0027 EA 15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	5,872.47	1,495.44
23 65 14 16-0028 EA 20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	7,549.28	1,626.63
23 65 14 16-0029 EA 25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	7,978.13	1,705.33
23 65 14 16-0030 EA 30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	8,953.96	1,784.04
23 65 14 16-0031 EA 40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	10,286.11	1,967.69
23 65 14 16-0032 EA 50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	11,471.15	2,177.57
23 65 14 16-0033 EA 60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	12,814.36	2,348.11
23 65 14 16-0034 EA 70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	14,705.94	2,531.76

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 16-0035 EA 80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	16,063.57	2,885.95
23 65 14 16-0036 EA 100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	19,488.68	3,345.07
23 65 14 16-0037 EA 125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	23,909.37	3,738.61
23 65 14 16-0038 EA 150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	26,858.15	4,210.85
23 65 14 16-0039 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	32,432.73	4,722.45
23 65 14 16-0040 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	36,170.19	5,260.28
23 65 14 16-0041 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	40,030.52	5,929.30
23 65 14 16-0042 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	43,728.55	6,585.20
23 65 14 16-0043 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	52,727.20	8,631.59
23 65 14 16-0044 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	59,879.59	9,720.38
23 65 14 16-0045 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	66,485.07	10,664.87
23 65 14 16-0046 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	80,763.60	12,553.86
23 65 14 16-0047 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	91,916.88	13,878.76
23 65 14 16-0048 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	95,586.44	10,664.87
23 65 14 16-0049 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	110,795.36	15,820.21
23 65 14 16-0050 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	124,616.13	13,183.51

23 65 43 Cooling Tower Basins and Accessories (23 65)**23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins (23 65 43)**

Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.

23 65 43 00-0002 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,361.67	
<i>For Anti-Flotation Flanges, Add</i>	115.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0003 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,544.21	
<i>For Anti-Flotation Flanges, Add</i>	115.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0004 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,501.94	
<i>For Anti-Flotation Flanges, Add</i>	253.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0005 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,768.73	
<i>For Anti-Flotation Flanges, Add</i>	253.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0006 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,927.91	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0007 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,136.11	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0008 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,344.30	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0009 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,346.39	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0010 EA 48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,584.94	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0011 EA 48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,956.98	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0012 EA 48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,331.35	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0013 EA 48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	3,565.23	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	

23 70 Central HVAC Equipment (23)

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 71 Thermal Storage (23 70)**23 71 13 Thermal Heat Storage (23 71)****23 71 13 23 Pressurized-Water Thermal Storage Tanks (23 71 13)****23 71 13 23-0001 Nickelshield Storage Tanks (23 71 13 23)**

23 71 13 23-0002 EA 325 Gallon Nickelshield Storage Tank.....	24,201.75	249.40
23 71 13 23-0003 EA 490 Gallon Nickelshield Storage Tank.....	33,765.25	330.66
23 71 13 23-0004 EA 605 Gallon Nickelshield Storage Tank.....	38,666.26	399.94
23 71 13 23-0005 EA 740 Gallon Nickelshield Storage Tank.....	45,793.81	499.92
23 71 13 23-0006 EA 940 Gallon Nickelshield Storage Tank.....	53,316.96	664.57
23 71 13 23-0007 EA 1,505 Gallon Nickelshield Storage Tank.....	68,953.98	999.97
23 71 13 23-0008 EA 1,615 Gallon Nickelshield Storage Tank.....	77,865.51	1,126.29
23 71 13 23-0009 EA 2,275 Gallon Nickelshield Storage Tank.....	106,906.62	1,496.02
23 71 13 23-0010 EA 3,815 Gallon Nickelshield Storage Tank.....	138,236.63	1,739.18



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Air-To-Air Energy Recovery Equipment	23 72

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 72 Air-To-Air Energy Recovery Equipment (23 70)

23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment (23 72)

23 72 13 00-0001	Enthalpy Recovery Wheel (23 72 13)		
23 72 13 00-0002	EA Up To 1,000 CFM Enthalpy Recovery Wheel	9,124.98	939.03
23 72 13 00-0003	EA >1,000 To 2,000 CFM Enthalpy Recovery Wheel	10,184.04	1,127.12
23 72 13 00-0004	EA >2,000 To 4,000 CFM Enthalpy Recovery Wheel	12,742.28	1,408.90
23 72 13 00-0005	EA >4,000 To 6,000 CFM Enthalpy Recovery Wheel	14,876.93	1,609.66
23 72 13 00-0006	EA >6,000 To 8,000 CFM Enthalpy Recovery Wheel	16,402.87	1,690.68
23 72 13 00-0007	EA >8,000 To 10,000 CFM Enthalpy Recovery Wheel	19,823.27	1,878.76
23 72 13 00-0008	EA >10,000 To 15,000 CFM Enthalpy Recovery Wheel	25,998.69	1,972.45
23 72 13 00-0009	EA >15,000 To 20,000 CFM Enthalpy Recovery Wheel	32,163.97	2,113.34
23 72 13 00-0010	EA >20,000 To 25,000 CFM Enthalpy Recovery Wheel	38,858.40	2,414.85
23 72 13 00-0011	EA >25,000 To 30,000 CFM Enthalpy Recovery Wheel	43,798.65	3,099.57
23 72 13 00-0012	EA >30,000 To 40,000 CFM Enthalpy Recovery Wheel	58,294.74	3,522.24
23 72 13 00-0013	EA >40,000 To 50,000 CFM Enthalpy Recovery Wheel	69,358.81	4,226.69

23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment (23 72)

23 72 16 00-0001	Glycol Heat Pipe Type, 50 Percent Efficient (23 72 16)		
23 72 16 00-0002	EA 100 MBH, 1,700 CFM Glycol Heat Recovery Unit	15,819.08	704.44
23 72 16 00-0003	EA 160 MBH, 2,700 CFM Glycol Heat Recovery Unit	24,765.28	939.31
23 72 16 00-0004	EA 620 MBH, 4,000 CFM Glycol Heat Recovery Unit	36,724.10	1,408.90

23 73 Indoor Central-Station Air-Handling Units (23 70)

23 73 13 Modular Indoor Central-Station Air-Handling Units (23 73)

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

23 73 13 00-0001	Single Zone Units (23 73 13)		
	Note: Horizontal/vertical draw-thru fan, motor and cabinet.		
23 73 13 00-0002	EA 300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	2,416.94	662.80
	For Flat Filter Box And Throwaway Filters, Add	194.35	
	For Medium Capacity Filter Box And Throwaway Filters, Add	360.30	
	For Combination Filter Mixing Box And Throwaway Filters, Add	535.71	
	For Manual Roll Filter, Add	903.23	
	For Automatic Roll Filter, Add	976.74	
	For Hot Water Heating Coil, Aluminum Fins, Add	462.21	
	For Electric Heating Coil, Add	756.23	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	756.23	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	682.72	
	For Steam Heating Coil, Aluminum Fins, Add	609.22	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	488.37	
	For Chilled Water Cooling Coil, Copper Fins, Add	903.23	
	For Direct Expansion Cooling Coil, Copper Fins, Add	829.73	
	For Hot Water Heating Coil, Copper Fins, Add	609.22	
	For Variable Air Volume, Add	205.81	
	For Economizer, Panel, Controls And Damper(s), Add	1,302.80	
	For 2 Coils, Independent Circuits, Add	271.10	
23 73 13 00-0003	EA 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,736.25	795.36
	For Flat Filter Box And Throwaway Filters, Add	316.86	
	For Medium Capacity Filter Box And Throwaway Filters, Add	599.66	
	For Combination Filter Mixing Box And Throwaway Filters, Add	893.81	
	For Manual Roll Filter, Add	1,544.04	
	For Automatic Roll Filter, Add	1,674.09	
	For Hot Water Heating Coil, Aluminum Fins, Add	763.76	
	For Electric Heating Coil, Add	1,283.95	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	1,283.95	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,153.90	
	For Steam Heating Coil, Aluminum Fins, Add	1,023.86	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	837.05	
	For Chilled Water Cooling Coil, Copper Fins, Add	1,544.04	
	For Direct Expansion Cooling Coil, Copper Fins, Add	1,414.00	
	For Hot Water Heating Coil, Copper Fins, Add	1,023.86	
	For Variable Air Volume, Add	364.13	
	For Economizer, Panel, Controls And Damper(s), Add	1,434.72	
	For 2 Coils, Independent Circuits, Add	425.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0004	EA		800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,209.25	854.18
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	359.92	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	683.23	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,018.74	
			<i>For Manual Roll Filter, Add</i>	1,766.01	
			<i>For Automatic Roll Filter, Add</i>	1,915.47	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	869.29	
			<i>For Electric Heating Coil, Add</i>	1,467.10	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	1,467.10	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	1,317.65	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	1,168.20	
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	957.73	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	1,766.01	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	1,616.56	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	1,168.20	
			<i>For Variable Air Volume, Add</i>	418.47	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	1,494.12	
			<i>For 2 Coils, Independent Circuits, Add</i>	480.71	
23 73 13 00-0005	EA		1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,734.52	917.86
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	407.88	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	776.42	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,158.07	
			<i>For Manual Roll Filter, Add</i>	2,013.84	
			<i>For Automatic Roll Filter, Add</i>	2,184.99	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	986.91	
			<i>For Electric Heating Coil, Add</i>	1,671.53	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	1,671.53	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	1,500.38	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	1,329.22	
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	1,092.50	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	2,013.84	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	1,842.68	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	1,329.22	
			<i>For Variable Air Volume, Add</i>	479.23	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	1,558.01	
			<i>For 2 Coils, Independent Circuits, Add</i>	541.91	
23 73 13 00-0006	EA		1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,351.66	987.45
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	464.72	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	887.16	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,323.70	
			<i>For Manual Roll Filter, Add</i>	2,309.36	
			<i>For Automatic Roll Filter, Add</i>	2,506.49	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,126.56	
			<i>For Electric Heating Coil, Add</i>	1,915.09	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	1,915.09	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	1,717.96	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	1,520.83	
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	1,253.25	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	2,309.36	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	2,112.23	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	1,520.83	
			<i>For Variable Air Volume, Add</i>	551.97	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	1,626.31	
			<i>For 2 Coils, Independent Circuits, Add</i>	614.02	
23 73 13 00-0007	EA		1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,069.86	1,061.18
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	531.19	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,016.90	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,517.77	
			<i>For Manual Roll Filter, Add</i>	2,656.25	
			<i>For Automatic Roll Filter, Add</i>	2,883.95	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,290.07	
			<i>For Electric Heating Coil, Add</i>	2,200.86	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	2,200.86	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	1,973.16	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	1,745.47	
			<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>	1,441.97	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	2,656.25	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	2,428.55	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	1,745.47	
			<i>For Variable Air Volume, Add</i>	637.55	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	1,701.16	
			<i>For 2 Coils, Independent Circuits, Add</i>	698.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0008 EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,638.70	1,140.84
For Flat Filter Box And Throwaway Filters, Add	582.55	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,116.32	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,666.34	
For Manual Roll Filter, Add	2,919.43	
For Automatic Roll Filter, Add	3,170.05	
For Hot Water Heating Coil, Aluminum Fins, Add	1,415.72	
For Electric Heating Coil, Add	2,418.20	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,418.20	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,167.58	
For Steam Heating Coil, Aluminum Fins, Add	1,916.96	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,585.03	
For Chilled Water Cooling Coil, Copper Fins, Add	2,919.43	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,668.81	
For Hot Water Heating Coil, Copper Fins, Add	1,916.96	
For Variable Air Volume, Add	701.73	
For Economizer, Panel, Controls And Damper(s), Add	1,778.44	
For 2 Coils, Independent Circuits, Add	764.12	
23 73 13 00-0009 EA 1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	7,257.41	1,229.49
For Flat Filter Box And Throwaway Filters, Add	637.94	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,223.20	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,826.02	
For Manual Roll Filter, Add	3,201.36	
For Automatic Roll Filter, Add	3,476.43	
For Hot Water Heating Coil, Aluminum Fins, Add	1,550.95	
For Electric Heating Coil, Add	2,651.22	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,651.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,376.15	
For Steam Heating Coil, Aluminum Fins, Add	2,101.08	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,738.21	
For Chilled Water Cooling Coil, Copper Fins, Add	3,201.36	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,926.29	
For Hot Water Heating Coil, Copper Fins, Add	2,101.08	
For Variable Air Volume, Add	770.19	
For Economizer, Panel, Controls And Damper(s), Add	1,715.82	
For 2 Coils, Independent Circuits, Add	835.77	
23 73 13 00-0010 EA 2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	7,934.67	1,318.14
For Flat Filter Box And Throwaway Filters, Add	699.31	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,342.12	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,003.77	
For Manual Roll Filter, Add	3,516.65	
For Automatic Roll Filter, Add	3,819.22	
For Hot Water Heating Coil, Aluminum Fins, Add	1,701.19	
For Electric Heating Coil, Add	2,911.50	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,911.50	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,608.92	
For Steam Heating Coil, Aluminum Fins, Add	2,306.34	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,909.61	
For Chilled Water Cooling Coil, Copper Fins, Add	3,516.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,214.07	
For Hot Water Heating Coil, Copper Fins, Add	2,306.34	
For Variable Air Volume, Add	847.21	
For Economizer, Panel, Controls And Damper(s), Add	1,785.74	
For 2 Coils, Independent Circuits, Add	914.50	
23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	8,564.58	1,416.85
For Flat Filter Box And Throwaway Filters, Add	755.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,449.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,164.56	
For Manual Roll Filter, Add	3,799.69	
For Automatic Roll Filter, Add	4,126.62	
For Hot Water Heating Coil, Aluminum Fins, Add	1,837.54	
For Electric Heating Coil, Add	3,145.64	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,145.64	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,818.61	
For Steam Heating Coil, Aluminum Fins, Add	2,491.59	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,063.36	
For Chilled Water Cooling Coil, Copper Fins, Add	3,799.69	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,472.67	
For Hot Water Heating Coil, Copper Fins, Add	2,491.59	
For Variable Air Volume, Add	915.67	
For Economizer, Panel, Controls And Damper(s), Add	1,863.23	
For 2 Coils, Independent Circuits, Add	987.27	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0012 EA 2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	9,237.78	1,524.56
For Flat Filter Box And Throwaway Filters, Add	814.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,564.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,335.80	
For Manual Roll Filter, Add	4,100.82	
For Automatic Roll Filter, Add	4,453.83	
For Hot Water Heating Coil, Aluminum Fins, Add	1,982.79	
For Electric Heating Coil, Add	3,394.81	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,394.81	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,041.81	
For Steam Heating Coil, Aluminum Fins, Add	2,688.80	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,226.91	
For Chilled Water Cooling Coil, Copper Fins, Add	4,100.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,747.82	
For Hot Water Heating Coil, Copper Fins, Add	2,688.80	
For Variable Air Volume, Add	988.41	
For Economizer, Panel, Controls And Damper(s), Add	1,947.72	
For 2 Coils, Independent Circuits, Add	1,064.98	
23 73 13 00-0013 EA 3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	10,742.41	1,764.70
For Flat Filter Box And Throwaway Filters, Add	948.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,820.76	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,718.54	
For Manual Roll Filter, Add	4,773.92	
For Automatic Roll Filter, Add	5,184.99	
For Hot Water Heating Coil, Aluminum Fins, Add	2,307.47	
For Electric Heating Coil, Add	3,951.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,951.77	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,540.69	
For Steam Heating Coil, Aluminum Fins, Add	3,129.62	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,592.50	
For Chilled Water Cooling Coil, Copper Fins, Add	4,773.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,362.84	
For Hot Water Heating Coil, Copper Fins, Add	3,129.62	
For Variable Air Volume, Add	1,151.01	
For Economizer, Panel, Controls And Damper(s), Add	2,136.50	
For 2 Coils, Independent Circuits, Add	1,238.67	
23 73 13 00-0014 EA 3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,267.63	1,896.43
For Flat Filter Box And Throwaway Filters, Add	991.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,901.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,838.30	
For Manual Roll Filter, Add	4,977.72	
For Automatic Roll Filter, Add	5,405.61	
For Hot Water Heating Coil, Aluminum Fins, Add	2,410.42	
For Electric Heating Coil, Add	4,121.95	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,121.95	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,694.07	
For Steam Heating Coil, Aluminum Fins, Add	3,266.19	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,702.80	
For Chilled Water Cooling Coil, Copper Fins, Add	4,977.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,549.84	
For Hot Water Heating Coil, Copper Fins, Add	3,266.19	
For Variable Air Volume, Add	1,198.08	
For Economizer, Panel, Controls And Damper(s), Add	2,240.47	
For 2 Coils, Independent Circuits, Add	1,297.92	
23 73 13 00-0015 EA 3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,805.50	2,038.11
For Flat Filter Box And Throwaway Filters, Add	1,034.97	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,982.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,959.33	
For Manual Roll Filter, Add	5,182.80	
For Automatic Roll Filter, Add	5,627.50	
For Hot Water Heating Coil, Aluminum Fins, Add	2,514.63	
For Electric Heating Coil, Add	4,293.41	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,293.41	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,848.72	
For Steam Heating Coil, Aluminum Fins, Add	3,404.02	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,813.75	
For Chilled Water Cooling Coil, Copper Fins, Add	5,182.80	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,738.11	
For Hot Water Heating Coil, Copper Fins, Add	3,404.02	
For Variable Air Volume, Add	1,245.14	
For Economizer, Panel, Controls And Damper(s), Add	2,351.39	
For 2 Coils, Independent Circuits, Add	1,358.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0016 EA 4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	12,989.82	2,352.93
For Flat Filter Box And Throwaway Filters, Add	1,130.86	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,160.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,224.46	
For Manual Roll Filter, Add	5,631.32	
For Automatic Roll Filter, Add	6,112.69	
For Hot Water Heating Coil, Aluminum Fins, Add	2,743.09	
For Electric Heating Coil, Add	4,668.58	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,668.58	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,187.21	
For Steam Heating Coil, Aluminum Fins, Add	3,705.83	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,056.34	
For Chilled Water Cooling Coil, Copper Fins, Add	5,631.32	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,149.95	
For Hot Water Heating Coil, Copper Fins, Add	3,705.83	
For Variable Air Volume, Add	1,347.84	
For Economizer, Panel, Controls And Damper(s), Add	2,284.96	
For 2 Coils, Independent Circuits, Add	1,491.53	
23 73 13 00-0017 EA 4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	12,989.82	2,352.93
For Flat Filter Box And Throwaway Filters, Add	1,130.86	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,160.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,224.46	
For Manual Roll Filter, Add	5,631.32	
For Automatic Roll Filter, Add	6,112.69	
For Hot Water Heating Coil, Aluminum Fins, Add	2,743.09	
For Electric Heating Coil, Add	4,668.58	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,668.58	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,187.21	
For Steam Heating Coil, Aluminum Fins, Add	3,705.83	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,056.34	
For Chilled Water Cooling Coil, Copper Fins, Add	5,631.32	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,149.95	
For Hot Water Heating Coil, Copper Fins, Add	3,705.83	
For Variable Air Volume, Add	1,347.84	
For Economizer, Panel, Controls And Damper(s), Add	2,284.96	
For 2 Coils, Independent Circuits, Add	1,491.53	
23 73 13 00-0018 EA 5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	14,283.61	2,702.56
For Flat Filter Box And Throwaway Filters, Add	1,235.28	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,354.72	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,512.77	
For Manual Roll Filter, Add	6,118.28	
For Automatic Roll Filter, Add	6,639.39	
For Hot Water Heating Coil, Aluminum Fins, Add	2,991.67	
For Electric Heating Coil, Add	5,076.08	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,076.08	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,554.98	
For Steam Heating Coil, Aluminum Fins, Add	4,033.87	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,319.69	
For Chilled Water Cooling Coil, Copper Fins, Add	6,118.28	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,597.18	
For Hot Water Heating Coil, Copper Fins, Add	4,033.87	
For Variable Air Volume, Add	1,459.09	
For Economizer, Panel, Controls And Damper(s), Add	2,484.62	
For 2 Coils, Independent Circuits, Add	1,636.80	
23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	15,039.55	2,932.06
For Flat Filter Box And Throwaway Filters, Add	1,294.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,463.26	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,673.94	
For Manual Roll Filter, Add	6,386.42	
For Automatic Roll Filter, Add	6,928.92	
For Hot Water Heating Coil, Aluminum Fins, Add	3,131.44	
For Electric Heating Coil, Add	5,301.43	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,301.43	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,758.93	
For Steam Heating Coil, Aluminum Fins, Add	4,216.44	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,464.46	
For Chilled Water Cooling Coil, Copper Fins, Add	6,386.42	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,843.93	
For Hot Water Heating Coil, Copper Fins, Add	4,216.44	
For Variable Air Volume, Add	1,518.99	
For Economizer, Panel, Controls And Damper(s), Add	2,615.85	
For 2 Coils, Independent Circuits, Add	1,720.95	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0020	EA		6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	15,778.08 1,352.80 2,570.58 3,833.37 6,652.83 7,216.72 3,269.48 5,525.05 5,525.05 4,961.15 4,397.26 3,608.36 6,652.83 6,088.94 4,397.26 1,578.89 2,740.10 1,803.36	3,149.95
23 73 13 00-0021	EA		6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	16,521.85 1,411.38 2,678.27 3,993.33 6,919.75 7,505.04 3,408.04 5,749.18 5,749.18 5,163.90 4,578.61 3,752.52 6,919.75 6,334.47 4,578.61 1,638.80 2,866.46 1,886.30	3,371.98
23 73 13 00-0022	EA		7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	17,380.12 1,478.74 2,801.92 4,176.95 7,225.63 7,835.37 3,567.22 6,006.16 6,006.16 5,396.43 4,786.69 3,917.68 7,225.63 6,615.90 4,786.69 1,707.26 3,014.16 1,981.91	3,629.65
23 73 13 00-0023	EA		7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	18,253.47 1,546.86 2,926.63 4,362.09 7,533.03 8,167.21 3,727.91 6,264.65 6,264.65 5,630.47 4,996.28 4,083.61 7,533.03 6,898.84 4,996.28 1,775.72 2,850.92 2,079.02	3,888.97



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	19,157.92 1,616.53 3,053.51 4,550.34 7,843.53 8,502.16 3,891.70 6,526.25 6,526.25 5,867.61 5,208.98 4,251.08 7,843.53 7,184.89 5,208.98 1,844.18 2,975.55 2,179.25	4,187.94
23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	20,190.46 1,695.67 3,197.31 4,763.62 8,194.34 8,880.48 4,077.48 6,822.05 6,822.05 6,135.91 5,449.76 4,440.24 8,194.34 7,508.19 5,449.76 1,921.20 3,120.28 2,293.50	4,536.85
23 73 13 00-0026 EA 10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	21,194.47 1,773.37 3,339.10 4,974.05 8,542.30 9,255.95 4,260.40 7,115.00 7,115.00 6,401.35 5,687.70 4,627.98 8,542.30 7,828.65 5,687.70 1,998.22 3,256.44 2,404.91	4,843.87
23 73 13 00-0027 EA 11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	21,225.47 1,788.68 3,377.03 5,032.16 8,669.18 9,396.59 4,304.76 7,214.38 7,214.38 6,486.97 5,759.57 4,698.29 8,669.18 7,941.78 5,759.57 2,036.73 3,183.22 2,413.51	4,690.12

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0028 EA 12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	22,255.29 1,853.92 3,484.88 5,190.16 8,895.95 9,637.10 4,449.00 7,413.63 7,413.63 6,672.47 5,931.32 4,818.55 8,895.95 8,154.79 5,931.32 2,075.24 3,409.64 2,521.99	5,203.56
23 73 13 00-0029 EA 13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	23,407.49 1,955.85 3,680.76 5,482.65 9,410.02 10,195.49 4,697.17 7,839.07 7,839.07 7,053.59 6,268.12 5,097.74 9,410.02 8,624.54 6,268.12 2,199.33 2,939.60 2,654.94	5,412.57
23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	24,633.63 2,061.47 3,881.81 5,782.53 9,931.48 10,761.27 4,952.73 8,271.90 8,271.90 7,442.11 6,612.32 5,380.63 9,931.48 9,101.69 6,612.32 2,323.41 3,007.56 2,795.28	5,622.19
23 73 13 00-0031 EA 16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	25,913.38 2,175.89 4,102.51 6,112.22 10,513.32 11,393.54 5,232.00 8,752.88 8,752.88 7,872.66 6,992.44 5,696.77 10,513.32 9,633.10 6,992.44 2,464.62 3,061.80 2,943.43	5,838.43



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 27,259.17	6,054.90	
For Flat Filter Box And Throwaway Filters, Add	2,293.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,327.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,448.51	
For Manual Roll Filter, Add	11,101.76	
For Automatic Roll Filter, Add	12,032.41	
For Hot Water Heating Coil, Aluminum Fins, Add	5,517.86	
For Electric Heating Coil, Add	9,240.46	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,240.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,309.81	
For Steam Heating Coil, Aluminum Fins, Add	7,379.16	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	6,016.20	
For Chilled Water Cooling Coil, Copper Fins, Add	11,101.76	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,171.11	
For Hot Water Heating Coil, Copper Fins, Add	7,379.16	
For Variable Air Volume, Add	2,605.82	
For Economizer, Panel, Controls And Damper(s), Add	3,129.24	
For 2 Coils, Independent Circuits, Add	3,098.18	
23 73 13 00-0033 EA 20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 30,306.33	6,491.29	
For Flat Filter Box And Throwaway Filters, Add	2,566.69	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,855.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,287.50	
For Manual Roll Filter, Add	11,862.17	
For Automatic Roll Filter, Add	12,493.00	
For Hot Water Heating Coil, Aluminum Fins, Add	5,133.38	
For Electric Heating Coil, Add	5,553.93	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,338.88	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,287.50	
For Steam Heating Coil, Aluminum Fins, Add	7,236.13	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	5,720.81	
For Chilled Water Cooling Coil, Copper Fins, Add	11,441.63	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,390.25	
For Hot Water Heating Coil, Copper Fins, Add	8,287.50	
For Variable Air Volume, Add	2,943.85	
For Economizer, Panel, Controls And Damper(s), Add	3,358.80	
For 2 Coils, Independent Circuits, Add	3,451.18	
23 73 13 00-0034 EA 22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 33,563.90	6,995.83	
For Flat Filter Box And Throwaway Filters, Add	2,854.88	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,408.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,239.81	
For Manual Roll Filter, Add	13,240.53	
For Automatic Roll Filter, Add	13,946.54	
For Hot Water Heating Coil, Aluminum Fins, Add	5,709.76	
For Electric Heating Coil, Add	6,180.43	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,416.49	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,239.81	
For Steam Heating Coil, Aluminum Fins, Add	8,063.12	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	6,384.93	
For Chilled Water Cooling Coil, Copper Fins, Add	12,769.85	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,593.17	
For Hot Water Heating Coil, Copper Fins, Add	9,239.81	
For Variable Air Volume, Add	3,294.71	
For Economizer, Panel, Controls And Damper(s), Add	3,490.29	
For 2 Coils, Independent Circuits, Add	3,827.06	
23 73 13 00-0035 EA 25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 37,092.46	7,495.89	
For Flat Filter Box And Throwaway Filters, Add	3,173.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,025.36	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,303.26	
For Manual Roll Filter, Add	14,787.18	
For Automatic Roll Filter, Add	15,578.46	
For Hot Water Heating Coil, Aluminum Fins, Add	6,346.85	
For Electric Heating Coil, Add	6,874.37	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,622.06	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,303.26	
For Steam Heating Coil, Aluminum Fins, Add	8,984.45	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	7,129.83	
For Chilled Water Cooling Coil, Copper Fins, Add	14,259.66	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,940.86	
For Hot Water Heating Coil, Copper Fins, Add	10,303.26	
For Variable Air Volume, Add	3,692.65	
For Economizer, Panel, Controls And Damper(s), Add	3,610.37	
For 2 Coils, Independent Circuits, Add	4,236.77	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0036 EA 27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	45,270.04 3,950.59 7,555.33 12,962.45 18,698.55 19,710.80 7,901.18 8,576.02 14,649.54 12,962.45 11,275.36 9,011.86 18,023.71 16,336.62 12,962.45 4,723.85 3,752.45 5,201.84	8,072.88
23 73 13 00-0037 EA 30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	50,443.23 4,429.31 8,489.60 14,580.04 21,064.33 22,208.61 8,858.61 9,621.47 16,487.18 14,580.04 12,672.90 10,150.74 20,301.47 18,394.33 14,580.04 5,340.00 3,610.05 5,807.18	8,616.62
23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	55,212.13 4,858.77 9,320.07 16,012.03 23,145.79 24,404.68 9,717.54 10,556.81 18,110.19 16,012.03 13,913.87 11,153.26 22,306.52 20,208.36 16,012.03 5,874.86 3,752.33 6,360.48	9,278.82
23 73 13 00-0039 EA 35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	60,545.22 5,334.78 10,237.72 17,592.13 25,437.70 26,822.21 10,669.56 11,592.57 19,899.65 17,592.13 15,284.61 12,257.35 24,514.69 22,207.17 17,592.13 6,461.06 3,924.22 6,977.53	10,557.80



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Central HVAC Equipment	23 70
Indoor Central-Station Air-Handling Units	23 73

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0040 EA 37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	65,109.50 5,747.90 11,037.98 18,973.09 27,447.35 28,942.81 11,495.81 12,492.78 21,465.52 18,973.09 16,480.66 13,225.19 26,450.38 23,957.95 18,973.09 6,978.80 4,054.14 7,507.92	10,687.74
23 73 13 00-0041 EA 40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	70,209.70 6,201.57 11,911.51 20,476.42 29,626.12 31,240.77 12,403.15 13,479.58 23,167.50 20,476.42 17,785.33 14,274.84 28,549.68 25,858.59 20,476.42 7,535.05 3,878.49 8,097.41	11,433.27
23 73 13 00-0042 EA 45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	75,767.19 6,694.92 12,860.76 22,109.52 31,991.82 33,735.75 13,389.84 14,552.46 25,016.08 22,109.52 19,202.96 15,414.60 30,829.20 27,922.64 22,109.52 8,138.37 4,034.50 8,739.34	12,344.74
23 73 13 00-0043 EA 47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	78,944.35 6,972.97 13,393.07 23,023.22 33,310.79 35,126.24 13,945.95 15,156.25 26,048.97 23,023.22 19,997.46 16,050.24 32,100.48 29,074.73 23,023.22 8,472.12 4,133.65 9,104.74	12,924.57

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0044	EA		50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	81,935.34	13,421.66
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	7,235.61	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	13,896.46	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	23,887.73	
			<i>For Manual Roll Filter, Add</i>	34,559.79	
			<i>For Automatic Roll Filter, Add</i>	36,443.09	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	14,471.21	
			<i>For Electric Heating Coil, Add</i>	15,726.75	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	27,026.57	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	23,887.73	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	20,748.89	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	16,652.13	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	33,304.25	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	30,165.41	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	23,887.73	
			<i>For Variable Air Volume, Add</i>	8,788.75	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,224.82	
			<i>For 2 Coils, Independent Circuits, Add</i>	9,449.07	
23 73 13 00-0045	EA		55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	88,304.58	14,333.02
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	7,806.22	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	14,997.89	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	25,785.39	
			<i>For Manual Roll Filter, Add</i>	37,314.74	
			<i>For Automatic Roll Filter, Add</i>	39,349.34	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	15,612.43	
			<i>For Electric Heating Coil, Add</i>	16,968.83	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	29,176.38	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	25,785.39	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	22,394.40	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	17,979.18	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	35,958.35	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	32,567.36	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	25,785.39	
			<i>For Variable Air Volume, Add</i>	9,494.76	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,390.61	
			<i>For 2 Coils, Independent Circuits, Add</i>	10,186.85	
23 73 13 00-0046	EA		60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	96,492.10	15,327.22
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	8,553.31	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	16,449.09	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	28,292.76	
			<i>For Manual Roll Filter, Add</i>	40,970.37	
			<i>For Automatic Roll Filter, Add</i>	43,207.60	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	17,106.63	
			<i>For Electric Heating Coil, Add</i>	18,598.11	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	32,021.47	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	28,292.76	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	24,564.05	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	19,739.44	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	39,478.89	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	35,750.18	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	28,292.76	
			<i>For Variable Air Volume, Add</i>	10,440.39	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,091.79	
			<i>For 2 Coils, Independent Circuits, Add</i>	11,140.69	
23 73 13 00-0047	EA		65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	105,702.98	16,569.96
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	9,386.73	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	18,063.32	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	31,078.20	
			<i>For Manual Roll Filter, Add</i>	45,023.57	
			<i>For Automatic Roll Filter, Add</i>	47,484.52	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	18,773.46	
			<i>For Electric Heating Coil, Add</i>	20,414.09	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	35,179.78	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	31,078.20	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	26,976.62	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	21,691.47	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	43,382.94	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	39,281.36	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	31,078.20	
			<i>For Variable Air Volume, Add</i>	11,484.43	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,267.14	
			<i>For 2 Coils, Independent Circuits, Add</i>	12,210.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0048 EA 70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	115,982.82	17,978.40
For Flat Filter Box And Throwaway Filters, Add	10,311.80	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,851.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	34,161.56	
For Manual Roll Filter, Add	49,504.59	
For Automatic Roll Filter, Add	52,212.18	
For Hot Water Heating Coil, Aluminum Fins, Add	20,623.59	
For Electric Heating Coil, Add	22,428.66	
For Chilled Water Cooling Coil, Aluminum Fins, Add	38,674.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	34,161.56	
For Steam Heating Coil, Aluminum Fins, Add	29,648.90	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	23,849.76	
For Chilled Water Cooling Coil, Copper Fins, Add	47,699.53	
For Direct Expansion Cooling Coil, Copper Fins, Add	43,186.87	
For Hot Water Heating Coil, Copper Fins, Add	34,161.56	
For Variable Air Volume, Add	12,635.44	
For Economizer, Panel, Controls And Damper(s), Add	4,472.97	
For 2 Coils, Independent Circuits, Add	13,403.34	
23 73 13 00-0049 Multi-Zone Units <small>(23 73 13)</small>		
Note: Horizontal/vertical blow-thru fan, motor and cabinet.		
23 73 13 00-0050 EA 1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	7,019.78	1,491.06
For Economizer, Panel, Controls And Damper(s), Add	2,130.77	
For Flat Filter Box And Throwaway Filters, Add	595.49	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,127.10	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,435.49	
For Manual Roll Filter, Add	2,902.53	
For Automatic Roll Filter, Add	2,902.53	
For Hot Water Heating Coil, Aluminum Fins, Add	701.98	
For Electric Heating Coil, Add	799.78	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,413.52	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,413.52	
For Chilled Water Cooling Coil, Copper Fins, Add	2,902.53	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,902.53	
For 2 Coils, Independent Circuits, Add	799.78	
23 73 13 00-0051 EA 1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	8,750.78	1,868.03
For Economizer, Panel, Controls And Damper(s), Add	2,508.09	
For Flat Filter Box And Throwaway Filters, Add	741.64	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,403.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,787.39	
For Manual Roll Filter, Add	3,612.01	
For Automatic Roll Filter, Add	3,612.01	
For Hot Water Heating Coil, Aluminum Fins, Add	875.08	
For Electric Heating Coil, Add	996.72	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,003.81	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,003.81	
For Chilled Water Cooling Coil, Copper Fins, Add	3,612.01	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,612.01	
For 2 Coils, Independent Circuits, Add	996.72	
23 73 13 00-0052 EA 1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	10,725.30	1,988.16
For Economizer, Panel, Controls And Damper(s), Add	2,628.00	
For Flat Filter Box And Throwaway Filters, Add	930.53	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,775.86	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,255.33	
For Manual Roll Filter, Add	4,620.92	
For Automatic Roll Filter, Add	4,620.92	
For Hot Water Heating Coil, Aluminum Fins, Add	1,072.53	
For Electric Heating Coil, Add	1,230.24	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,832.39	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,832.39	
For Chilled Water Cooling Coil, Copper Fins, Add	4,620.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,620.92	
For 2 Coils, Independent Circuits, Add	1,230.24	
23 73 13 00-0053 EA 2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	11,170.45	2,129.00
For Economizer, Panel, Controls And Damper(s), Add	2,768.45	
For Flat Filter Box And Throwaway Filters, Add	965.01	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,838.81	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,336.52	
For Manual Roll Filter, Add	4,775.46	
For Automatic Roll Filter, Add	4,775.46	
For Hot Water Heating Coil, Aluminum Fins, Add	1,117.05	
For Electric Heating Coil, Add	1,279.64	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,962.48	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,962.48	
For Chilled Water Cooling Coil, Copper Fins, Add	4,775.46	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,775.46	
For 2 Coils, Independent Circuits, Add	1,279.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,010.18	2,282.27
For Economizer, Panel, Controls And Damper(s), Add	2,922.36	
For Flat Filter Box And Throwaway Filters, Add	1,137.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,178.17	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,763.47	
For Manual Roll Filter, Add	5,688.37	
For Automatic Roll Filter, Add	5,688.37	
For Hot Water Heating Coil, Aluminum Fins, Add	1,301.02	
For Electric Heating Coil, Add	1,496.01	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,713.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,713.40	
For Chilled Water Cooling Coil, Copper Fins, Add	5,688.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,688.37	
For 2 Coils, Independent Circuits, Add	1,496.01	
23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	13,730.02	2,444.07
For Economizer, Panel, Controls And Damper(s), Add	3,083.95	
For Flat Filter Box And Throwaway Filters, Add	1,198.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,292.13	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,908.80	
For Manual Roll Filter, Add	5,980.40	
For Automatic Roll Filter, Add	5,980.40	
For Hot Water Heating Coil, Aluminum Fins, Add	1,373.00	
For Electric Heating Coil, Add	1,577.78	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,956.54	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,956.54	
For Chilled Water Cooling Coil, Copper Fins, Add	5,980.40	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,980.40	
For 2 Coils, Independent Circuits, Add	1,577.78	
23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	14,486.01	2,609.65
For Economizer, Panel, Controls And Damper(s), Add	3,249.44	
For Flat Filter Box And Throwaway Filters, Add	1,262.21	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,412.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,062.34	
For Manual Roll Filter, Add	6,289.81	
For Automatic Roll Filter, Add	6,289.81	
For Hot Water Heating Coil, Aluminum Fins, Add	1,448.60	
For Electric Heating Coil, Add	1,663.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,213.99	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,213.99	
For Chilled Water Cooling Coil, Copper Fins, Add	6,289.81	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,289.81	
For 2 Coils, Independent Circuits, Add	1,663.77	
23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	16,125.39	2,800.33
For Economizer, Panel, Controls And Damper(s), Add	2,945.49	
For Flat Filter Box And Throwaway Filters, Add	1,412.95	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,706.14	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,432.58	
For Manual Roll Filter, Add	7,072.65	
For Automatic Roll Filter, Add	7,072.65	
For Hot Water Heating Coil, Aluminum Fins, Add	1,612.54	
For Electric Heating Coil, Add	1,855.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,859.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,859.30	
For Chilled Water Cooling Coil, Copper Fins, Add	7,072.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,072.65	
For 2 Coils, Independent Circuits, Add	1,855.21	
23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	17,609.96	2,998.92
For Economizer, Panel, Controls And Damper(s), Add	3,106.43	
For Flat Filter Box And Throwaway Filters, Add	1,546.78	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,965.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,759.83	
For Manual Roll Filter, Add	7,757.49	
For Automatic Roll Filter, Add	7,757.49	
For Hot Water Heating Coil, Aluminum Fins, Add	1,761.00	
For Electric Heating Coil, Add	2,027.51	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,424.94	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,424.94	
For Chilled Water Cooling Coil, Copper Fins, Add	7,757.49	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,757.49	
For 2 Coils, Independent Circuits, Add	2,027.51	
23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	18,624.43	3,202.97
For Economizer, Panel, Controls And Damper(s), Add	3,260.95	
For Flat Filter Box And Throwaway Filters, Add	1,634.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,131.39	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,971.30	
For Manual Roll Filter, Add	8,189.02	
For Automatic Roll Filter, Add	8,189.02	
For Hot Water Heating Coil, Aluminum Fins, Add	1,862.44	
For Electric Heating Coil, Add	2,143.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,783.12	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,783.12	
For Chilled Water Cooling Coil, Copper Fins, Add	8,189.02	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,189.02	
For 2 Coils, Independent Circuits, Add	2,143.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	20,508.57	3,421.94
For Economizer, Panel, Controls And Damper(s), Add	3,439.93	
For Flat Filter Box And Throwaway Filters, Add	1,806.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,465.91	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,393.53	
For Manual Roll Filter, Add	9,078.86	
For Automatic Roll Filter, Add	9,078.86	
For Hot Water Heating Coil, Aluminum Fins, Add	2,050.86	
For Electric Heating Coil, Add	2,363.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,517.08	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,517.08	
For Chilled Water Cooling Coil, Copper Fins, Add	9,078.86	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,078.86	
For 2 Coils, Independent Circuits, Add	2,363.21	
23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	21,827.05	3,662.20
For Economizer, Panel, Controls And Damper(s), Add	3,627.18	
For Flat Filter Box And Throwaway Filters, Add	1,921.14	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,685.35	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,672.08	
For Manual Roll Filter, Add	9,650.82	
For Automatic Roll Filter, Add	9,650.82	
For Hot Water Heating Coil, Aluminum Fins, Add	2,182.71	
For Electric Heating Coil, Add	2,514.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,991.24	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,991.24	
For Chilled Water Cooling Coil, Copper Fins, Add	9,650.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,650.82	
For 2 Coils, Independent Circuits, Add	2,514.62	
23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	23,922.82	3,976.79
For Economizer, Panel, Controls And Damper(s), Add	3,872.12	
For Flat Filter Box And Throwaway Filters, Add	2,108.45	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,046.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,129.22	
For Manual Roll Filter, Add	10,603.09	
For Automatic Roll Filter, Add	10,603.09	
For Hot Water Heating Coil, Aluminum Fins, Add	2,392.28	
For Electric Heating Coil, Add	2,757.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,778.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,778.46	
For Chilled Water Cooling Coil, Copper Fins, Add	10,603.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,603.09	
For 2 Coils, Independent Circuits, Add	2,757.21	
23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	25,707.64	4,283.45
For Economizer, Panel, Controls And Damper(s), Add	4,114.15	
For Flat Filter Box And Throwaway Filters, Add	2,264.93	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,346.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,509.42	
For Manual Roll Filter, Add	11,386.72	
For Automatic Roll Filter, Add	11,386.72	
For Hot Water Heating Coil, Aluminum Fins, Add	2,570.76	
For Electric Heating Coil, Add	2,962.58	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,427.62	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,427.62	
For Chilled Water Cooling Coil, Copper Fins, Add	11,386.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,386.72	
For 2 Coils, Independent Circuits, Add	2,962.58	
23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	27,019.10	4,631.30
For Economizer, Panel, Controls And Damper(s), Add	3,581.16	
For Flat Filter Box And Throwaway Filters, Add	2,371.77	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,545.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,764.34	
For Manual Roll Filter, Add	11,889.20	
For Automatic Roll Filter, Add	11,889.20	
For Hot Water Heating Coil, Aluminum Fins, Add	2,701.91	
For Electric Heating Coil, Add	3,110.23	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,847.58	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,847.58	
For Chilled Water Cooling Coil, Copper Fins, Add	11,889.20	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,889.20	
For 2 Coils, Independent Circuits, Add	3,110.23	
23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	29,940.83	4,995.61
For Economizer, Panel, Controls And Damper(s), Add	3,796.28	
For Flat Filter Box And Throwaway Filters, Add	2,637.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,059.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,414.10	
For Manual Roll Filter, Add	13,254.15	
For Automatic Roll Filter, Add	13,254.15	
For Hot Water Heating Coil, Aluminum Fins, Add	2,994.08	
For Electric Heating Coil, Add	3,450.09	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,974.13	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,974.13	
For Chilled Water Cooling Coil, Copper Fins, Add	13,254.15	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,254.15	
For 2 Coils, Independent Circuits, Add	3,450.09	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	31,567.86	5,385.00
For Economizer, Panel, Controls And Damper(s), Add	4,019.20	
For Flat Filter Box And Throwaway Filters, Add	2,771.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,312.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,737.26	
For Manual Roll Filter, Add	13,898.22	
For Automatic Roll Filter, Add	13,898.22	
For Hot Water Heating Coil, Aluminum Fins, Add	3,156.79	
For Electric Heating Coil, Add	3,634.18	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,511.23	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,511.23	
For Chilled Water Cooling Coil, Copper Fins, Add	13,898.22	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,898.22	
For 2 Coils, Independent Circuits, Add	3,634.18	
23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	33,367.57	5,832.63
For Economizer, Panel, Controls And Damper(s), Add	4,262.30	
For Flat Filter Box And Throwaway Filters, Add	2,921.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,593.77	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,096.03	
For Manual Roll Filter, Add	14,614.58	
For Automatic Roll Filter, Add	14,614.58	
For Hot Water Heating Coil, Aluminum Fins, Add	3,336.76	
For Electric Heating Coil, Add	3,837.99	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,108.39	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,108.39	
For Chilled Water Cooling Coil, Copper Fins, Add	14,614.58	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,614.58	
For 2 Coils, Independent Circuits, Add	3,837.99	
23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	35,315.43	6,296.23
For Economizer, Panel, Controls And Damper(s), Add	3,880.16	
For Flat Filter Box And Throwaway Filters, Add	3,081.52	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,893.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,478.78	
For Manual Roll Filter, Add	15,373.25	
For Automatic Roll Filter, Add	15,373.25	
For Hot Water Heating Coil, Aluminum Fins, Add	3,531.54	
For Electric Heating Coil, Add	4,057.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,741.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,741.76	
For Chilled Water Cooling Coil, Copper Fins, Add	15,373.25	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,373.25	
For 2 Coils, Independent Circuits, Add	4,057.84	
23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	36,332.41	6,536.85
For Economizer, Panel, Controls And Damper(s), Add	3,988.12	
For Flat Filter Box And Throwaway Filters, Add	3,165.22	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,049.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,679.04	
For Manual Roll Filter, Add	15,770.65	
For Automatic Roll Filter, Add	15,770.65	
For Hot Water Heating Coil, Aluminum Fins, Add	3,633.24	
For Electric Heating Coil, Add	4,172.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,073.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,073.45	
For Chilled Water Cooling Coil, Copper Fins, Add	15,770.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,770.65	
For 2 Coils, Independent Circuits, Add	4,172.68	
23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	37,295.30	6,770.13
For Economizer, Panel, Controls And Damper(s), Add	4,079.85	
For Flat Filter Box And Throwaway Filters, Add	3,246.22	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,202.46	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,873.90	
For Manual Roll Filter, Add	16,162.64	
For Automatic Roll Filter, Add	16,162.64	
For Hot Water Heating Coil, Aluminum Fins, Add	3,729.53	
For Electric Heating Coil, Add	4,282.11	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,399.73	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,399.73	
For Chilled Water Cooling Coil, Copper Fins, Add	16,162.64	
For Direct Expansion Cooling Coil, Copper Fins, Add	16,162.64	
For 2 Coils, Independent Circuits, Add	4,282.11	
23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	41,995.20	7,042.24
For Economizer, Panel, Controls And Damper(s), Add	3,417.45	
For Flat Filter Box And Throwaway Filters, Add	3,695.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,087.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,985.72	
For Manual Roll Filter, Add	18,558.11	
For Automatic Roll Filter, Add	18,558.11	
For Hot Water Heating Coil, Aluminum Fins, Add	4,199.52	
For Electric Heating Coil, Add	4,837.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,367.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,367.31	
For Chilled Water Cooling Coil, Copper Fins, Add	18,558.11	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,558.11	
For 2 Coils, Independent Circuits, Add	4,837.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	46,650.58	7,321.20
For Economizer, Panel, Controls And Damper(s), Add	3,566.16	
For Flat Filter Box And Throwaway Filters, Add	4,141.87	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,969.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,093.08	
For Manual Roll Filter, Add	20,949.13	
For Automatic Roll Filter, Add	20,949.13	
For Hot Water Heating Coil, Aluminum Fins, Add	4,665.06	
For Electric Heating Coil, Add	5,388.79	
For Chilled Water Cooling Coil, Aluminum Fins, Add	17,330.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	17,330.45	
For Chilled Water Cooling Coil, Copper Fins, Add	20,949.13	
For Direct Expansion Cooling Coil, Copper Fins, Add	20,949.13	
For 2 Coils, Independent Circuits, Add	5,388.79	
23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	53,406.62	7,597.33
For Economizer, Panel, Controls And Damper(s), Add	3,633.29	
For Flat Filter Box And Throwaway Filters, Add	4,798.29	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,271.17	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,724.55	
For Manual Roll Filter, Add	24,492.32	
For Automatic Roll Filter, Add	24,492.32	
For Hot Water Heating Coil, Aluminum Fins, Add	5,340.66	
For Electric Heating Coil, Add	6,191.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	20,236.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	20,236.40	
For Chilled Water Cooling Coil, Copper Fins, Add	24,492.32	
For Direct Expansion Cooling Coil, Copper Fins, Add	24,492.32	
For 2 Coils, Independent Circuits, Add	6,191.85	
23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	60,168.08	7,870.73
For Economizer, Panel, Controls And Damper(s), Add	3,701.37	
For Flat Filter Box And Throwaway Filters, Add	5,454.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	10,572.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	13,356.56	
For Manual Roll Filter, Add	28,036.06	
For Automatic Roll Filter, Add	28,036.06	
For Hot Water Heating Coil, Aluminum Fins, Add	6,016.81	
For Electric Heating Coil, Add	6,995.44	
For Chilled Water Cooling Coil, Aluminum Fins, Add	23,142.89	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,142.89	
For Chilled Water Cooling Coil, Copper Fins, Add	28,036.06	
For Direct Expansion Cooling Coil, Copper Fins, Add	28,036.06	
For 2 Coils, Independent Circuits, Add	6,995.44	
23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	67,476.62	8,533.53
For Economizer, Panel, Controls And Damper(s), Add	3,867.87	
For Flat Filter Box And Throwaway Filters, Add	6,138.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,146.47	
For Combination Filter Mixing Box And Throwaway Filters, Add	15,040.99	
For Manual Roll Filter, Add	23,334.31	
For Automatic Roll Filter, Add	28,863.19	
For Hot Water Heating Coil, Aluminum Fins, Add	6,747.66	
For Electric Heating Coil, Add	7,853.44	
For Chilled Water Cooling Coil, Aluminum Fins, Add	23,334.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,334.31	
For Steam Heating Coil, Aluminum Fins, Add	12,276.54	
For Chilled Water Cooling Coil, Copper Fins, Add	28,863.19	
For Direct Expansion Cooling Coil, Copper Fins, Add	28,863.19	
For 2 Coils, Independent Circuits, Add	7,853.44	
23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	72,781.53	9,279.17
For Economizer, Panel, Controls And Damper(s), Add	3,742.50	
For Flat Filter Box And Throwaway Filters, Add	6,618.99	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,862.57	
For Combination Filter Mixing Box And Throwaway Filters, Add	16,217.89	
For Manual Roll Filter, Add	25,157.62	
For Automatic Roll Filter, Add	31,117.45	
For Hot Water Heating Coil, Aluminum Fins, Add	7,278.15	
For Electric Heating Coil, Add	8,470.12	
For Chilled Water Cooling Coil, Aluminum Fins, Add	25,157.62	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	25,157.62	
For Steam Heating Coil, Aluminum Fins, Add	13,237.98	
For Chilled Water Cooling Coil, Copper Fins, Add	31,117.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	31,117.45	
For 2 Coils, Independent Circuits, Add	8,470.12	
23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	86,568.78	10,024.47
For Economizer, Panel, Controls And Damper(s), Add	3,912.61	
For Flat Filter Box And Throwaway Filters, Add	7,941.01	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,839.93	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,494.59	
For Manual Roll Filter, Add	30,332.30	
For Automatic Roll Filter, Add	37,557.43	
For Hot Water Heating Coil, Aluminum Fins, Add	8,656.88	
For Electric Heating Coil, Add	10,101.91	
For Chilled Water Cooling Coil, Aluminum Fins, Add	30,332.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,332.30	
For Steam Heating Coil, Aluminum Fins, Add	15,882.02	
For Chilled Water Cooling Coil, Copper Fins, Add	37,557.43	
For Direct Expansion Cooling Coil, Copper Fins, Add	37,557.43	
For 2 Coils, Independent Circuits, Add	10,101.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	97,728.29	10,853.32
For Economizer, Panel, Controls And Damper(s), Add	4,087.41	
For Flat Filter Box And Throwaway Filters, Add	8,998.69	
For Medium Capacity Filter Box And Throwaway Filters, Add	13,420.62	
For Combination Filter Mixing Box And Throwaway Filters, Add	22,109.66	
For Manual Roll Filter, Add	34,446.49	
For Automatic Roll Filter, Add	42,671.05	
For Hot Water Heating Coil, Aluminum Fins, Add	9,772.83	
For Electric Heating Coil, Add	11,417.74	
For Chilled Water Cooling Coil, Aluminum Fins, Add	34,446.49	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	34,446.49	
For Steam Heating Coil, Aluminum Fins, Add	17,997.38	
For Chilled Water Cooling Coil, Copper Fins, Add	42,671.05	
For Direct Expansion Cooling Coil, Copper Fins, Add	42,671.05	
For 2 Coils, Independent Circuits, Add	11,417.74	
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	105,910.09	11,682.18
For Economizer, Panel, Controls And Damper(s), Add	4,269.42	
For Flat Filter Box And Throwaway Filters, Add	9,756.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,550.82	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,973.10	
For Manual Roll Filter, Add	37,355.20	
For Automatic Roll Filter, Add	46,276.59	
For Hot Water Heating Coil, Aluminum Fins, Add	10,591.01	
For Electric Heating Coil, Add	12,375.29	
For Chilled Water Cooling Coil, Aluminum Fins, Add	37,355.20	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,355.20	
For Steam Heating Coil, Aluminum Fins, Add	19,512.41	
For Chilled Water Cooling Coil, Copper Fins, Add	46,276.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	46,276.59	
For 2 Coils, Independent Circuits, Add	12,375.29	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	118,534.10	13,669.86
For Economizer, Panel, Controls And Damper(s), Add	4,268.67	
For Flat Filter Box And Throwaway Filters, Add	10,877.94	
For Medium Capacity Filter Box And Throwaway Filters, Add	16,219.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,707.12	
For Manual Roll Filter, Add	41,560.84	
For Automatic Roll Filter, Add	51,463.31	
For Hot Water Heating Coil, Aluminum Fins, Add	11,853.41	
For Electric Heating Coil, Add	13,833.91	
For Chilled Water Cooling Coil, Aluminum Fins, Add	41,560.84	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	41,560.84	
For Steam Heating Coil, Aluminum Fins, Add	21,755.89	
For Chilled Water Cooling Coil, Copper Fins, Add	51,463.31	
For Direct Expansion Cooling Coil, Copper Fins, Add	51,463.31	
For 2 Coils, Independent Circuits, Add	13,833.91	
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	119,263.77	14,167.31
For Economizer, Panel, Controls And Damper(s), Add	4,359.88	
For Flat Filter Box And Throwaway Filters, Add	10,914.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	16,270.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,780.09	
For Manual Roll Filter, Add	41,633.80	
For Automatic Roll Filter, Add	51,536.28	
For Hot Water Heating Coil, Aluminum Fins, Add	11,926.38	
For Electric Heating Coil, Add	13,906.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	41,633.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	41,633.80	
For Steam Heating Coil, Aluminum Fins, Add	21,828.85	
For Chilled Water Cooling Coil, Copper Fins, Add	51,536.28	
For Direct Expansion Cooling Coil, Copper Fins, Add	51,536.28	
For 2 Coils, Independent Circuits, Add	13,906.87	
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	124,700.18	14,663.94
For Economizer, Panel, Controls And Damper(s), Add	4,451.09	
For Flat Filter Box And Throwaway Filters, Add	11,421.58	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,027.53	
For Combination Filter Mixing Box And Throwaway Filters, Add	28,029.74	
For Manual Roll Filter, Add	43,589.46	
For Automatic Roll Filter, Add	53,962.61	
For Hot Water Heating Coil, Aluminum Fins, Add	12,470.02	
For Electric Heating Coil, Add	14,544.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	43,589.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	43,589.46	
For Steam Heating Coil, Aluminum Fins, Add	22,843.17	
For Chilled Water Cooling Coil, Copper Fins, Add	53,962.61	
For Direct Expansion Cooling Coil, Copper Fins, Add	53,962.61	
For 2 Coils, Independent Circuits, Add	14,544.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	130,574.79	15,741.46
For Economizer, Panel, Controls And Damper(s), Add	4,639.10	
For Flat Filter Box And Throwaway Filters, Add	11,933.84	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,788.40	
For Combination Filter Mixing Box And Throwaway Filters, Add	29,272.78	
For Manual Roll Filter, Add	45,488.09	
For Automatic Roll Filter, Add	56,298.29	
For Hot Water Heating Coil, Aluminum Fins, Add	13,057.48	
For Electric Heating Coil, Add	15,219.52	
For Chilled Water Cooling Coil, Aluminum Fins, Add	45,488.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	45,488.09	
For Steam Heating Coil, Aluminum Fins, Add	23,867.68	
For Chilled Water Cooling Coil, Copper Fins, Add	56,298.29	
For Direct Expansion Cooling Coil, Copper Fins, Add	56,298.29	
For 2 Coils, Independent Circuits, Add	15,219.52	
23 73 13 00-0084 EA 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	140,593.10	16,569.96
For Economizer, Panel, Controls And Damper(s), Add	4,775.83	
For Flat Filter Box And Throwaway Filters, Add	12,880.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,203.63	
For Combination Filter Mixing Box And Throwaway Filters, Add	31,613.28	
For Manual Roll Filter, Add	49,167.25	
For Automatic Roll Filter, Add	60,869.90	
For Hot Water Heating Coil, Aluminum Fins, Add	14,059.31	
For Electric Heating Coil, Add	16,399.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	49,167.25	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	49,167.25	
For Steam Heating Coil, Aluminum Fins, Add	25,761.96	
For Chilled Water Cooling Coil, Copper Fins, Add	60,869.90	
For Direct Expansion Cooling Coil, Copper Fins, Add	60,869.90	
For 2 Coils, Independent Circuits, Add	16,399.84	
23 73 13 00-0085 EA 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	151,078.18	17,481.31
For Economizer, Panel, Controls And Damper(s), Add	4,400.50	
For Flat Filter Box And Throwaway Filters, Add	13,857.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	20,661.33	
For Combination Filter Mixing Box And Throwaway Filters, Add	34,018.79	
For Manual Roll Filter, Add	52,929.77	
For Automatic Roll Filter, Add	65,537.09	
For Hot Water Heating Coil, Aluminum Fins, Add	15,107.82	
For Electric Heating Coil, Add	17,629.28	
For Chilled Water Cooling Coil, Aluminum Fins, Add	52,929.77	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	52,929.77	
For Steam Heating Coil, Aluminum Fins, Add	27,715.14	
For Chilled Water Cooling Coil, Copper Fins, Add	65,537.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	65,537.09	
For 2 Coils, Independent Circuits, Add	17,629.28	
23 73 13 00-0086 EA 55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	162,656.87	18,558.36
For Economizer, Panel, Controls And Damper(s), Add	4,549.78	
For Flat Filter Box And Throwaway Filters, Add	14,940.80	
For Medium Capacity Filter Box And Throwaway Filters, Add	22,278.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	36,689.54	
For Manual Roll Filter, Add	57,113.40	
For Automatic Roll Filter, Add	70,729.30	
For Hot Water Heating Coil, Aluminum Fins, Add	16,265.69	
For Electric Heating Coil, Add	18,988.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	57,113.40	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	57,113.40	
For Steam Heating Coil, Aluminum Fins, Add	29,881.59	
For Chilled Water Cooling Coil, Copper Fins, Add	70,729.30	
For Direct Expansion Cooling Coil, Copper Fins, Add	70,729.30	
For 2 Coils, Independent Circuits, Add	18,988.87	
23 73 13 00-0087 EA 60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan	174,243.87	19,055.45
For Economizer, Panel, Controls And Damper(s), Add	4,617.38	
For Flat Filter Box And Throwaway Filters, Add	16,065.70	
For Medium Capacity Filter Box And Throwaway Filters, Add	23,962.68	
For Combination Filter Mixing Box And Throwaway Filters, Add	39,484.90	
For Manual Roll Filter, Add	61,545.41	
For Automatic Roll Filter, Add	76,252.42	
For Hot Water Heating Coil, Aluminum Fins, Add	17,424.39	
For Electric Heating Coil, Add	20,365.79	
For Chilled Water Cooling Coil, Aluminum Fins, Add	61,545.41	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	61,545.41	
For Steam Heating Coil, Aluminum Fins, Add	32,131.40	
For Chilled Water Cooling Coil, Copper Fins, Add	76,252.42	
For Direct Expansion Cooling Coil, Copper Fins, Add	76,252.42	
For 2 Coils, Independent Circuits, Add	20,365.79	
23 73 13 00-0088 Return/Supply Air Fan <small>(23 73 13)</small>		
Note: Includes vibration mounts.		
23 73 13 00-0089 EA 300 CFM Return Air Fan.....	3,039.58	662.68
23 73 13 00-0090 EA 500 CFM Return Air Fan.....	3,924.52	795.24
23 73 13 00-0091 EA 750 CFM Return Air Fan.....	4,098.66	828.38
23 73 13 00-0092 EA 1,000 CFM Return Air Fan.....	4,660.55	878.09
23 73 13 00-0093 EA 1,250 CFM Return Air Fan.....	4,806.30	919.51
23 73 13 00-0094 EA 1,500 CFM Return Air Fan.....	4,923.07	960.94
23 73 13 00-0095 EA 1,750 CFM Return Air Fan.....	5,167.44	1,010.65
23 73 13 00-0096 EA 2,000 CFM Return Air Fan.....	5,729.29	1,060.36

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0097	EA		2,250 CFM Return Air Fan.....	6,002.40	1,110.07
23 73 13 00-0098	EA		2,500 CFM Return Air Fan.....	6,160.05	1,159.78
23 73 13 00-0099	EA		3,000 CFM Return Air Fan.....	6,539.31	1,284.05
23 73 13 00-0100	EA		3,500 CFM Return Air Fan.....	6,720.83	1,350.34
23 73 13 00-0101	EA		4,000 CFM Return Air Fan.....	6,890.25	1,408.32
23 73 13 00-0102	EA		4,500 CFM Return Air Fan.....	7,100.62	1,474.73
23 73 13 00-0103	EA		5,000 CFM Return Air Fan.....	7,293.59	1,549.29
23 73 13 00-0104	EA		5,500 CFM Return Air Fan.....	7,669.24	1,731.56
23 73 13 00-0105	EA		6,000 CFM Return Air Fan.....	8,736.98	2,054.67
23 73 13 00-0106	EA		6,500 CFM Return Air Fan.....	8,958.26	2,087.82
23 73 13 00-0107	EA		7,000 CFM Return Air Fan.....	9,056.18	2,096.10
23 73 13 00-0108	EA		8,000 CFM Return Air Fan.....	9,508.41	2,129.24
23 73 13 00-0109	EA		9,000 CFM Return Air Fan.....	9,713.20	2,154.09
23 73 13 00-0110	EA		10,000 CFM Return Air Fan.....	10,210.92	2,237.30
23 73 13 00-0111	EA		12,500 CFM Return Air Fan.....	10,845.35	2,278.25
23 73 13 00-0112	EA		15,000 CFM Return Air Fan.....	12,180.90	2,342.99
23 73 13 00-0113	EA		17,500 CFM Return Air Fan.....	13,255.37	2,468.80
23 73 13 00-0114	EA		20,000 CFM Return Air Fan.....	15,660.46	2,576.28
23 73 13 00-0115	EA		22,500 CFM Return Air Fan.....	16,403.20	2,666.11
23 73 13 00-0116	EA		25,000 CFM Return Air Fan.....	17,132.90	2,742.33
23 73 13 00-0117	EA		27,500 CFM Return Air Fan.....	18,191.98	3,015.73
23 73 13 00-0118	EA		30,000 CFM Return Air Fan.....	19,437.91	3,181.20
23 73 13 00-0119	EA		35,000 CFM Return Air Fan.....	21,851.37	3,313.63
23 73 13 00-0120	EA		40,000 CFM Return Air Fan.....	25,673.67	3,645.04
23 73 13 00-0121	EA		45,000 CFM Return Air Fan.....	31,492.44	4,142.14
23 73 13 00-0122	EA		50,000 CFM Return Air Fan.....	38,115.16	4,291.62
23 73 13 00-0123	EA		55,000 CFM Return Air Fan.....	39,874.23	4,415.54
23 73 13 00-0124	EA		60,000 CFM Return Air Fan.....	40,797.21	4,531.53
23 73 13 00-0125	EA		65,000 CFM Return Air Fan.....	42,777.43	4,730.25
23 73 13 00-0126	EA		70,000 CFM Return Air Fan.....	44,929.57	4,963.18
23 73 13 00-0127	EA		75,000 CFM Return Air Fan.....	48,288.14	5,206.64
23 73 13 00-0128	EA		80,000 CFM Return Air Fan.....	50,443.30	5,482.65
23 73 13 00-0129	EA		90,000 CFM Return Air Fan.....	52,123.00	5,794.87
23 73 13 00-0130	EA		100,000 CFM Return Air Fan.....	55,993.97	6,060.11
23 73 13 00-0131	EA		115,000 CFM Return Air Fan.....	60,189.83	6,349.96
23 73 13 00-0132	EA		130,000 CFM Return Air Fan.....	64,744.91	6,669.88
23 73 13 00-0133	EA		150,000 CFM Return Air Fan.....	70,762.70	7,025.19

23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit (23 73 13)

Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 73 13 00-0135	EA		Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....	3,034.79	
23 73 13 00-0136	EA		Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit.....	4,116.76	
23 73 13 00-0137	EA		Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit.....	5,121.21	
23 73 13 00-0138	EA		Removal And Reinstallation Of >22,000 CFM Air Handling Unit.....	9,343.96	

23 74 Packaged Outdoor HVAC Equipment (23 70)

23 74 16 Packaged Rooftop Air-Conditioning Units (23 74)

23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units (23 74 16)

23 74 16 13-0001 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)

Note: Electric heating capacity is approximately 1/2 the cooling capacity. Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment, 26 28 16 16-0001 for disconnects.

23 74 16 13-0002	EA		2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	5,356.38	2,164.45
			<i>For Unit Without Heat, Deduct</i>	-412.12	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0003	EA		3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	6,722.26	2,262.85
			<i>For Unit Without Heat, Deduct</i>	-486.97	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0004	EA		4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	7,735.53	2,361.23
			<i>For Unit Without Heat, Deduct</i>	-544.19	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0005	EA		5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	9,079.09	2,508.80
			<i>For Unit Without Heat, Deduct</i>	-621.21	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0006	EA		6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	9,856.84	2,656.38
			<i>For Unit Without Heat, Deduct</i>	-669.93	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
			<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0007	EA		7.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	10,990.67	2,853.15
			<i>For Unit Without Heat, Deduct</i>	-739.74	
			<i>For Unit Without Factory Installed Economizer, Deduct</i>	-904.88	
			<i>For Unit Without Roof Curb, Deduct</i>	-864.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0008 EA 8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	11,768.41	3,000.73
<i>For Unit Without Heat, Deduct</i>	-788.47	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-904.88	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0009 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	12,902.24	3,197.49
<i>For Unit Without Heat, Deduct</i>	-858.28	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-925.36	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0010 EA 12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	15,444.21	3,455.26
<i>For Unit Without Heat, Deduct</i>	-1,002.59	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-999.40	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0011 EA 15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	17,986.18	3,714.02
<i>For Unit Without Heat, Deduct</i>	-1,146.91	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0012 EA 17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	20,452.36	3,972.11
<i>For Unit Without Heat, Deduct</i>	-1,287.44	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0013 EA 20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	22,918.55	4,230.53
<i>For Unit Without Heat, Deduct</i>	-1,427.96	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0014 EA 22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	25,664.81	4,660.79
<i>For Unit Without Heat, Deduct</i>	-1,593.97	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0015 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	28,411.09	5,091.39
<i>For Unit Without Heat, Deduct</i>	-1,759.98	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-864.62	
23 74 16 13-0016 EA 27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	31,273.46	5,571.18
<i>For Unit Without Heat, Deduct</i>	-1,935.07	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0017 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	34,135.84	6,050.64
<i>For Unit Without Heat, Deduct</i>	-2,110.17	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0018 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	39,774.63	7,059.08
<i>For Unit Without Heat, Deduct</i>	-2,459.34	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,259.08	
23 74 16 13-0019 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	45,413.42	8,067.52
<i>For Unit Without Heat, Deduct</i>	-2,808.51	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	
23 74 16 13-0020 EA 45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	50,024.08	9,100.56
<i>For Unit Without Heat, Deduct</i>	-3,107.91	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	
23 74 16 13-0021 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	54,634.74	10,133.60
<i>For Unit Without Heat, Deduct</i>	-3,407.31	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-1,843.86	
23 74 16 13-0022 EA 55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	60,139.70	11,117.44
<i>For Unit Without Heat, Deduct</i>	-3,748.15	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,266.52	
23 74 16 13-0023 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	65,644.65	12,101.29
<i>For Unit Without Heat, Deduct</i>	-4,088.99	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,266.52	
23 74 16 13-0024 EA 65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	70,998.05	13,085.13
<i>For Unit Without Heat, Deduct</i>	-4,422.25	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,426.22	
23 74 16 13-0025 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	76,351.43	14,068.97
<i>For Unit Without Heat, Deduct</i>	-4,755.50	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,426.22	
23 74 16 13-0026 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit	81,836.00	15,151.21
<i>For Unit Without Heat, Deduct</i>	-5,101.88	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,889.16	
<i>For Unit Without Roof Curb, Deduct</i>	-2,696.33	
23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units <small>(23 74 16 13)</small>		
Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment, 26 28 16 16-0001 for Disconnects.		
23 74 16 13-0028 EA 2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit	5,334.63	1,967.69
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-886.54	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0029 EA 3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....	6,088.22	2,262.85
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0030 EA 4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit.....	7,447.50	2,607.18
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0031 EA 5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit.....	8,477.63	2,803.96
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit.....	9,461.15	3,025.32
For Unit Without Factory Installed Economizer, Deduct	-886.54	
For Unit Without Roof Curb, Deduct	-720.49	
23 74 16 13-0033 EA 7.5 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit.....	10,293.31	3,172.89
For Unit Without Factory Installed Economizer, Deduct	-904.88	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0034 EA 8.5 Ton Electric Cooling, 170 To 190 MBH Gas Heating, Self Contained Package Rooftop Unit.....	12,183.28	2,631.78
For Unit Without Factory Installed Economizer, Deduct	-904.88	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit.....	14,968.27	3,541.84
For Unit Without Factory Installed Economizer, Deduct	-925.36	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit.....	16,341.39	3,836.99
For Unit Without Factory Installed Economizer, Deduct	-999.40	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit.....	19,594.22	4,132.15
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit.....	20,729.07	4,427.30
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit.....	31,077.20	4,722.45
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit.....	37,769.40	5,214.37
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit.....	44,461.60	5,640.71
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-864.62	
23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit.....	45,911.74	6,198.22
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit.....	47,361.89	6,690.14
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit.....	53,159.40	7,821.57
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,259.08	
23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit.....	58,956.91	8,952.98
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,843.86	
23 74 16 13-0046 EA 45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit.....	63,695.42	10,084.40
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,843.86	
23 74 16 13-0047 EA 50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit.....	68,433.93	11,215.83
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-1,843.86	
23 74 16 13-0048 EA 55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit.....	74,972.74	12,347.24
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,266.52	
23 74 16 13-0049 EA 60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit.....	81,511.55	13,478.66
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,266.52	
23 74 16 13-0050 EA 65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit.....	87,163.71	14,044.37
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,426.22	
23 74 16 13-0051 EA 70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit.....	92,783.07	14,585.50
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,426.22	
23 74 16 13-0052 EA 75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit.....	98,435.22	15,151.21
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,696.33	
23 74 16 13-0053 EA 80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit.....	104,120.17	15,741.51
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,696.33	
23 74 16 13-0054 EA 90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit.....	140,622.20	18,496.27
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,696.33	
23 74 16 13-0055 EA 100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit.....	162,415.05	22,530.04
For Unit Without Factory Installed Economizer, Deduct	-1,889.16	
For Unit Without Roof Curb, Deduct	-2,696.33	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0056				AAON Rooftop Units <small>(23 74 16 13)</small> Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0057				AAON RQ Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.		
23 74 16 13-0058	EA			2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	11,376.70 1,108.35 1,202.49 946.71 1,083.48 5,523.98 1,289.52	1,967.69
23 74 16 13-0059	EA			3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	12,462.95 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,262.85
23 74 16 13-0060	EA			4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	13,080.16 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,607.18
23 74 16 13-0061	EA			5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	13,482.84 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	2,803.96
23 74 16 13-0062	EA			6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	14,728.27 1,188.28 1,289.52 1,014.21 1,161.63 5,523.98 1,289.52	3,418.93
23 74 16 13-0063				AAON RNA Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.		
23 74 16 13-0064	EA			6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	17,500.92 1,156.31 1,776.20 1,184.73 1,094.14 2,950.27 1,005.33	3,025.39
23 74 16 13-0065	EA			7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	18,655.05 1,156.31 1,776.20 1,184.73 1,094.14 2,950.27 1,005.33	3,172.97
23 74 16 13-0066	EA			8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	21,306.27 1,156.31 1,776.20 1,184.73 1,094.14 2,950.27 1,005.33	3,418.93
23 74 16 13-0067	EA			10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	21,564.38 1,156.31 1,776.20 1,184.73 1,094.14 2,950.27 1,005.33	3,541.84

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0068 AAON RNB Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.		
23 74 16 13-0069 EA 9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009)	25,249.99	3,541.84
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0070 EA 11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011)	25,379.91	3,443.46
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0071 EA 13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013)	27,712.81	3,836.99
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0072 EA 15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015)	28,518.41	4,132.15
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	1,703.38	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,332.15	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	2,813.50	
For Hot Water Coil In Lieu Of Gas Heat, Add	1,010.66	
23 74 16 13-0073 AAON RNC Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0074 EA 16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016)	36,141.87	4,132.15
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0075 EA 18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018)	39,025.65	4,427.30
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0076 EA 20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020)	41,367.67	4,722.45
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0077 EA 25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025)	45,054.25	5,706.30
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0078 EA 30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030)	51,206.18	6,690.14
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	2,515.10	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,776.20	
For Factory Installed Non-Fused Disconnect, Add	1,056.84	
For Factory Installed Exhaust Fan, Add	5,159.86	
For Hot Water Coil In Lieu Of Gas Heat, Add	460.04	
23 74 16 13-0079 AAON RND Rooftop Units <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0080 EA 26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026)	66,949.47	5,706.30
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,220.25	
For Factory Installed Non-Fused Disconnect, Add	2,404.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,374.78	
23 74 16 13-0081 EA 31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031)	76,380.27	6,690.14
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,220.25	
For Factory Installed Non-Fused Disconnect, Add	2,404.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,374.78	
23 74 16 13-0082 EA 40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040)	90,532.38	8,952.98
For Factory Authorized Start Up, 4 Hour, One Trip, Add	2,220.25	
For Factory Installed Non-Fused Disconnect, Add	2,404.97	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,374.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0083 EA 50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050).....	106,533.53	11,215.83
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,220.25	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	2,404.97	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	3,374.78	
23 74 16 13-0084 EA 60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060).....	117,605.71	13,478.66
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,220.25	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	2,404.97	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	3,374.78	
23 74 16 13-0085 EA 70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070).....	123,960.70	14,585.56
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,220.25	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	2,404.97	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	3,374.78	
23 74 16 13-0086 AAON RNE Rooftop Units <small>(23 74 16 13-0086)</small>		
<small>Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.</small>		
23 74 16 13-0087 EA 55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055).....	113,901.77	12,347.24
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0088 EA 65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065).....	125,693.92	14,044.44
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0089 EA 75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075).....	133,757.62	15,151.21
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0090 EA 95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090).....	162,992.16	20,513.15
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0091 EA 105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105).....	177,158.59	23,415.50
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0092 EA 120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120).....	205,802.44	25,776.71
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0093 EA 130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130).....	211,324.04	27,350.87
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0094 EA 140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140).....	222,471.78	30,597.57
<i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i>	2,507.99	
<i>For Factory Installed Non-Fused Disconnect, Add</i>	3,602.13	
<i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	4,795.74	
23 74 16 13-0095 Heat Pump, Packaged Rooftop Heat Pump Units <small>(23 74 16 13)</small>		
<small>See CSI section 01 22 23 00-0776 for crane lifting equipment, 26 28 16 16-0001 for disconnects.</small>		
23 74 16 13-0096 Packaged Rooftop Heat Pump Units <small>(23 74 16 13-0095)</small>		
<small>Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.</small>		
23 74 16 13-0097 EA 2 Ton Packaged Rooftop Heat Pump.....	6,491.84	1,770.92
<i>For Economizer With Outside Air Control, Add</i>	2,048.04	
<i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	206.53	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0098 EA 2.5 Ton Packaged Rooftop Heat Pump.....	6,850.50	1,903.80
<i>For Economizer With Outside Air Control, Add</i>	2,174.72	
<i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	215.61	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0099 EA 3 Ton Packaged Rooftop Heat Pump.....	7,254.54	2,036.56
<i>For Economizer With Outside Air Control, Add</i>	2,310.92	
<i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	226.96	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0100 EA 3.5 Ton Packaged Rooftop Heat Pump.....	7,787.21	2,191.48
<i>For Economizer With Outside Air Control, Add</i>	2,288.09	
<i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	243.26	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	
23 74 16 13-0101 EA 4 Ton Packaged Rooftop Heat Pump.....	8,320.10	2,346.53
<i>For Economizer With Outside Air Control, Add</i>	2,446.86	
<i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	259.57	
<i>For Unit Without Roof Curb, Deduct</i>	-720.49	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0102	EA		5 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	8,920.84 2,626.91 222.24 -720.49	2,523.63
23 74 16 13-0103	EA		6 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	9,991.43 2,896.57 190.83 -720.49	2,722.76
23 74 16 13-0104	EA		7.5 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	12,598.21 2,958.62 263.72 -864.62	2,855.64
23 74 16 13-0105	EA		8.5 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	14,046.05 3,145.09 298.30 -864.62	3,076.94
23 74 16 13-0106	EA		10 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	15,055.44 3,205.62 216.10 -864.62	3,187.65
23 74 16 13-0107	EA		12.5 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	17,370.70 3,578.83 255.33 -864.62	3,453.30
23 74 16 13-0108	EA		15 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	19,685.95 3,952.02 294.55 -864.62	3,718.93
23 74 16 13-0109	EA		17.5 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	21,977.95 4,322.90 333.30 -864.62	3,984.57
23 74 16 13-0110	EA		20 Ton Packaged Rooftop Heat Pump <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	24,269.95 4,693.78 372.06 -864.62	4,250.20
23 74 16 13-0111			Heating Only Packaged Rooftop Units <small>(23 74 16 13-0095)</small> Note: Includes throwaway filters, filter rack, manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0112	EA		24 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	6,212.00 387.62 -720.49	1,770.92
23 74 16 13-0113	EA		32 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	7,277.99 455.15 -720.49	2,036.56
23 74 16 13-0114	EA		45 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	9,756.61 620.39 -720.49	2,346.53
23 74 16 13-0115	EA		60 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	10,949.59 699.18 -720.49	2,523.63
23 74 16 13-0116	EA		95 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	12,815.94 820.97 -864.62	2,855.64
23 74 16 13-0117	EA		112 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	14,371.35 923.94 -864.62	3,076.94
23 74 16 13-0118	EA		140 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	16,796.71 1,090.77 -864.62	3,187.65
23 74 16 13-0119	EA		170 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	21,621.90 1,414.36 -864.62	3,718.93
23 74 16 13-0120	EA		200 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	28,125.66 1,862.54 -864.62	3,984.57
23 74 16 13-0121	EA		230 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	32,645.68 2,171.86 -864.62	4,250.20
23 74 16 13-0122	EA		270 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	42,062.41 2,819.22 -864.62	4,692.93
23 74 16 13-0123	EA		330 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	52,468.54 3,524.04 -1,259.08	5,971.94
23 74 16 13-0124	EA		360 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	64,167.73 4,331.18 -1,259.08	6,021.12
23 74 16 13-0125	EA		450 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	78,022.94 5,273.89 -1,259.08	7,039.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0126 EA 540 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	101,170.77 6,839.93 -1,843.86	9,076.03
23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)		
23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)		
23 74 23 13-0001 Make-Up Air Units (23 74 23 13)		
Note: Units are shipped fully factory assembled in one piece, prewired, prepped, charged with refrigerant. Includes throwaway filters and start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0776 for crane lifting equipment.		
23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)		
Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0777 for crane lifting equipment.		
23 74 23 13-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	6,700.81 1,715.09 808.09	590.31
23 74 23 13-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	8,613.80 2,246.35 1,042.95	669.01
23 74 23 13-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	11,903.30 3,177.45 1,448.56	787.08
23 74 23 13-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	12,029.84 3,185.90 1,461.42	839.55
23 74 23 13-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	16,325.68 4,425.46 1,993.49	944.49
23 74 23 13-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	24,618.55 6,795.26 3,018.29	1,180.61
23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)		
Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0777 for crane lifting equipment.		
23 74 23 13-0010 EA 33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	13,498.07 3,754.27 1,657.74	590.31
23 74 23 13-0011 EA 100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	19,222.06 5,428.83 2,368.98	669.01
23 74 23 13-0012 EA 150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	23,792.01 6,744.07 2,934.65	787.08
23 74 23 13-0013 EA 250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	30,744.90 8,751.22 3,795.89	944.49
23 74 23 13-0014 EA 400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	49,549.65 14,274.59 6,134.68	1,180.61
23 76 Evaporative Air-Cooling Equipment (23 70)		
23 76 13 Direct Evaporative Air Coolers (23 76)		
23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)		
Note: Includes motor, belt and pads.		
23 76 13 00-0002 EA 3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,491.94	387.18
23 76 13 00-0003 EA 4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,760.54	451.71
23 76 13 00-0004 EA 4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	2,257.60	516.24
23 76 13 00-0005 EA 5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	2,463.31	580.77
23 76 13 00-0006 EA 6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	2,822.38	645.30
23 76 13 00-0007 EA 7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	3,043.43	709.83
23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers (23 76 13)		
Note: Excludes motor starter, piping, power wiring and equipment rigging.		
23 76 13 00-0009 EA 7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	2,760.23	392.70
23 76 13 00-0010 EA 8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	2,848.61	405.42
23 76 13 00-0011 EA 9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	3,424.60	563.04
23 76 13 00-0012 EA 11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	7,111.36	664.63
23 76 13 00-0013 EA 13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	7,798.66	973.00
23 76 13 00-0014 EA 16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	8,903.59	1,037.87
23 76 13 00-0015 EA 15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	8,264.54	1,167.60
23 76 13 00-0016 EA 19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	9,832.73	1,459.51
23 76 13 00-0017 EA 17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	10,048.62	1,907.86
23 76 13 00-0018 EA 22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	11,113.92	1,946.00
23 76 13 00-0019 EA 24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	11,750.29	2,162.27
23 76 13 00-0020 EA 30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	15,956.85	3,378.52

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 76 Evaporative Air-Cooling Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 76	13 00-0021	EA	35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	17,783.93	3,525.38
23 76	13 00-0022	EA	40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit	19,637.75	3,685.60

23 80 Decentralized Unitary HVAC Equipment ⁽²³⁾

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 81 Decentralized Unitary HVAC Equipment ^(23 80)**23 81 13 Packaged Terminal Air-Conditioners** ^(23 81)

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units ^(23 81 13)**23 81 13 11-0001 Packaged Terminal Air-Conditioners** ^(23 81 13 11)**23 81 13 11-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners** ^(23 81 13 11-0001)

23 81 13 11-0003	EA	7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,773.24	241.99
		For >35 To 70, Deduct	-38.68	
		For >70 To 100, Deduct	-64.46	
		For >100, Deduct	-90.25	
23 81 13 11-0004	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,910.77	300.10
		For >35 To 70, Deduct	-39.34	
		For >70 To 100, Deduct	-65.56	
		For >100, Deduct	-91.79	
23 81 13 11-0005	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,024.31	319.82
		For >35 To 70, Deduct	-41.52	
		For >70 To 100, Deduct	-69.20	
		For >100, Deduct	-96.87	
23 81 13 11-0006	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	2,186.07	343.77
		For >35 To 70, Deduct	-44.96	
		For >70 To 100, Deduct	-74.94	
		For >100, Deduct	-104.92	

23 81 13 11-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners ^(23 81 13 11-0001)

23 81 13 11-0008	EA	7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,910.34	266.29
		For >35 To 70, Deduct	-41.36	
		For >70 To 100, Deduct	-68.93	
		For >100, Deduct	-96.51	
23 81 13 11-0009	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,027.36	300.10
		For >35 To 70, Deduct	-42.83	
		For >70 To 100, Deduct	-71.39	
		For >100, Deduct	-99.95	
23 81 13 11-0010	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,108.80	319.82
		For >35 To 70, Deduct	-44.05	
		For >70 To 100, Deduct	-73.42	
		For >100, Deduct	-102.79	
23 81 13 11-0011	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	2,297.60	343.77
		For >35 To 70, Deduct	-48.31	
		For >70 To 100, Deduct	-80.52	
		For >100, Deduct	-112.72	

23 81 13 11-0012 Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve ^(23 81 13 11)

Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.

23 81 13 11-0013	EA	Up To 10,000 BTU Unit, Thru Wall A/C Sleeve	104.26	
23 81 13 11-0014	EA	>10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve	117.33	
23 81 13 11-0015	EA	>20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve	130.40	

23 81 13 11-0016 Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units ^(23 81 13 11)

Note: Includes storage and cleaning.

23 81 13 11-0017	EA	Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units	258.12	
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23 81 13 13 Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units ^(23 81 13)**23 81 13 13-0001 Single Package Vertical Wall Cooling Unit** ^(23 81 13 13)

Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0777 for crane lifting equipment.

23 81 13 13-0002	EA	1/2 Ton Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	4,207.08	293.94
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13 13-0003 EA 1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	6,411.26	307.93
23 81 13 13-0004 EA 1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	8,339.90	321.94
23 81 13 13-0005 EA 2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	9,579.88	349.93
23 81 13 13-0006 EA 2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	11,997.55	405.91
23 81 13 13-0007 EA 3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	12,910.15	503.89
23 81 13 13-0008 EA 3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	14,298.03	559.88
23 81 13 13-0009 EA 4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	15,748.22	629.87
23 81 13 13-0010 EA 5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	17,745.01	755.84
23 81 13 13-0011 EA 7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	22,921.26	937.81
23 81 13 13-0012 EA 10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	27,414.72	1,259.75
23 81 13 13-0013 EA 15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	38,317.49	1,539.68
23 81 13 13-0014 EA 20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	44,172.64	1,833.62
23 81 13 13-0015 EA 25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	52,721.64	2,057.58

23 81 16 Room Air-Conditioners (23 81)

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 16 00-0001 Window Unit, Room Air-Conditioners (23 81 16)

23 81 16 00-0002 Cooling Only, Window Unit, Room Air-Conditioners (23 81 16 00-0001)

23 81 16 00-0003 Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0002)

23 81 16 00-0004 EA 5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1)	549.89	135.51
<i>For >10 To 50, Deduct</i>	-13.94	
<i>For >50 To 75, Deduct</i>	-19.52	
<i>For >75 To 100, Deduct</i>	-27.89	
<i>For >100, Deduct</i>	-33.46	
23 81 16 00-0005 EA 6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1)	577.91	135.51
<i>For >10 To 50, Deduct</i>	-15.34	
<i>For >50 To 75, Deduct</i>	-21.48	
<i>For >75 To 100, Deduct</i>	-30.69	
<i>For >100, Deduct</i>	-36.83	
23 81 16 00-0006 EA 8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1)	647.98	135.51
<i>For >10 To 50, Deduct</i>	-18.85	
<i>For >50 To 75, Deduct</i>	-26.39	
<i>For >75 To 100, Deduct</i>	-37.70	
<i>For >100, Deduct</i>	-45.23	
23 81 16 00-0007 EA 10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1)	710.95	135.51
<i>For >10 To 50, Deduct</i>	-22.00	
<i>For >50 To 75, Deduct</i>	-30.79	
<i>For >75 To 100, Deduct</i>	-43.99	
<i>For >100, Deduct</i>	-52.79	
23 81 16 00-0008 EA 12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1)	872.19	135.51
<i>For >10 To 50, Deduct</i>	-30.06	
<i>For >50 To 75, Deduct</i>	-42.08	
<i>For >75 To 100, Deduct</i>	-60.12	
<i>For >100, Deduct</i>	-72.14	
23 81 16 00-0009 EA 15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1)	1,012.32	135.51
<i>For >10 To 50, Deduct</i>	-37.06	
<i>For >50 To 75, Deduct</i>	-51.89	
<i>For >75 To 100, Deduct</i>	-74.13	
<i>For >100, Deduct</i>	-88.95	
23 81 16 00-0010 EA 8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1)	956.27	135.51
<i>For >10 To 50, Deduct</i>	-34.26	
<i>For >50 To 75, Deduct</i>	-47.97	
<i>For >75 To 100, Deduct</i>	-68.52	
<i>For >100, Deduct</i>	-82.23	
23 81 16 00-0011 EA 10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1)	1,026.33	135.51
<i>For >10 To 50, Deduct</i>	-37.77	
<i>For >50 To 75, Deduct</i>	-52.87	
<i>For >75 To 100, Deduct</i>	-75.53	
<i>For >100, Deduct</i>	-90.64	
23 81 16 00-0012 EA 12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1)	1,082.38	135.51
<i>For >10 To 50, Deduct</i>	-40.57	
<i>For >50 To 75, Deduct</i>	-56.79	
<i>For >75 To 100, Deduct</i>	-81.14	
<i>For >100, Deduct</i>	-97.36	
23 81 16 00-0013 EA 18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2)	1,138.43	135.51
<i>For >10 To 50, Deduct</i>	-43.37	
<i>For >50 To 75, Deduct</i>	-60.72	
<i>For >75 To 100, Deduct</i>	-86.74	
<i>For >100, Deduct</i>	-104.09	
23 81 16 00-0014 EA 22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2)	1,250.54	135.51
<i>For >10 To 50, Deduct</i>	-48.98	
<i>For >50 To 75, Deduct</i>	-68.57	
<i>For >75 To 100, Deduct</i>	-97.95	
<i>For >100, Deduct</i>	-117.54	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0015 EA 25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2).....	1,264.55	135.51
For >10 To 50, Deduct	-49.68	
For >50 To 75, Deduct	-69.55	
For >75 To 100, Deduct	-99.35	
For >100, Deduct	-119.22	
23 81 16 00-0016 EA 28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2).....	1,616.41	135.51
For >10 To 50, Deduct	-67.27	
For >50 To 75, Deduct	-94.18	
For >75 To 100, Deduct	-134.54	
For >100, Deduct	-161.45	
23 81 16 00-0017 Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) (23 81 16 00-0002)		
23 81 16 00-0018 EA 8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C)	1,710.22	135.51
23 81 16 00-0019 EA 10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C)	1,870.29	135.51
23 81 16 00-0020 EA 11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C)	1,943.05	135.51
23 81 16 00-0021 EA 12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C)	1,972.16	135.51
23 81 16 00-0022 EA 20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C)	2,234.09	135.51
23 81 16 00-0023 EA 24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C)	2,888.93	135.51
23 81 16 00-0024 EA 28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C)	3,107.21	135.51
23 81 16 00-0025 EA 36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B)	3,398.25	135.51
23 81 16 00-0026 Heating And Cooling, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0027 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0026)		
23 81 16 00-0028 EA 8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1)	1,082.38	135.51
For >10 To 50, Deduct	-40.57	
For >50 To 75, Deduct	-56.79	
For >75 To 100, Deduct	-81.14	
For >100, Deduct	-97.36	
23 81 16 00-0029 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2)	1,236.53	135.51
For >10 To 50, Deduct	-48.28	
For >50 To 75, Deduct	-67.59	
For >75 To 100, Deduct	-96.55	
For >100, Deduct	-115.86	
23 81 16 00-0030 EA 18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2)	1,320.60	135.51
For >10 To 50, Deduct	-52.48	
For >50 To 75, Deduct	-73.47	
For >75 To 100, Deduct	-104.96	
For >100, Deduct	-125.95	
23 81 16 00-0031 EA 25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2)	1,628.89	135.51
For >10 To 50, Deduct	-67.89	
For >50 To 75, Deduct	-95.05	
For >75 To 100, Deduct	-135.79	
For >100, Deduct	-162.94	
23 81 16 00-0032 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) (23 81 16 00-0026)		
23 81 16 00-0033 EA 12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B).....	2,044.92	135.51
23 81 16 00-0034 Accessories (23 81 16 00-0001)		
23 81 16 00-0035 SET Aluminum Air Conditioner Unit Frame And Bracket Assembly.....	538.29	77.49
23 81 16 00-0036 Removal And Reinstallation Of Room Air-Conditioners (23 81 16)		
Note: Includes storage and cleaning.		
23 81 16 00-0037 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash	161.32	
23 81 16 00-0038 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash	344.85	
23 81 16 00-0039 Through-The-Wall, Room Air-Conditioners (23 81 16)		
Note: Base unit excludes wall sleeve.		
23 81 16 00-0040 Cooling Only, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81 16 00-0041 Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0040)		
23 81 16 00-0042 EA 8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A)	1,283.53	96.79
For >10 To 50, Deduct	-54.50	
For >50 To 75, Deduct	-76.30	
For >75 To 100, Deduct	-108.99	
For >100, Deduct	-130.79	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	299.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0043 EA 9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....	1,385.40	96.79
<i>For >10 To 50, Deduct</i>	-59.59	
<i>For >50 To 75, Deduct</i>	-83.43	
<i>For >75 To 100, Deduct</i>	-119.18	
<i>For >100, Deduct</i>	-143.02	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 16 00-0044 EA 12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....	1,574.57	96.79
<i>For >10 To 50, Deduct</i>	-69.05	
<i>For >50 To 75, Deduct</i>	-96.67	
<i>For >75 To 100, Deduct</i>	-138.10	
<i>For >100, Deduct</i>	-165.72	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 16 00-0045 EA 10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....	1,385.40	96.79
<i>For >10 To 50, Deduct</i>	-59.59	
<i>For >50 To 75, Deduct</i>	-83.43	
<i>For >75 To 100, Deduct</i>	-119.18	
<i>For >100, Deduct</i>	-143.02	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 16 00-0046 EA 12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....	1,574.57	96.79
<i>For >10 To 50, Deduct</i>	-69.05	
<i>For >50 To 75, Deduct</i>	-96.67	
<i>For >75 To 100, Deduct</i>	-138.10	
<i>For >100, Deduct</i>	-165.72	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 16 00-0047 Heating And Cooling, Through-The-Wall, Room Air-Conditioners <small>(23 81 16 00-0039)</small>		
23 81 16 00-0048 Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich) <small>(23 81 16 00-0047)</small>		
23 81 16 00-0049 EA 10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....	1,618.23	96.79
<i>For >10 To 50, Deduct</i>	-71.23	
<i>For >50 To 75, Deduct</i>	-99.72	
<i>For >75 To 100, Deduct</i>	-142.46	
<i>For >100, Deduct</i>	-170.96	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 16 00-0050 EA 12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....	1,734.65	96.79
<i>For >10 To 50, Deduct</i>	-77.05	
<i>For >50 To 75, Deduct</i>	-107.87	
<i>For >75 To 100, Deduct</i>	-154.11	
<i>For >100, Deduct</i>	-184.93	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 23 Computer-Room Air-Conditioners <small>(23 81)</small>		
<small>Note: Includes equipment rigging. Indoor units include filters.</small>		
23 81 23 12 Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units <small>(23 81 23)</small>		
23 81 23 12-0001 Floor Mounted Air Cooled Direct Expansion Type <small>(23 81 23 12)</small>		
<small>Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquid sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe.</small>		
23 81 23 12-0002 EA 3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	35,595.68	2,754.65
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	3,932.40	
23 81 23 12-0003 EA 5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	39,284.38	3,012.89
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	4,342.50	
23 81 23 12-0004 EA 6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	54,220.50	3,443.31
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	6,137.39	
23 81 23 12-0005 EA 8 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	59,327.00	3,658.52
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	6,735.69	
23 81 23 12-0006 EA 10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	64,433.51	3,873.73
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	7,333.99	
23 81 23 12-0007 EA 16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	72,267.06	4,648.47
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	8,156.62	
23 81 23 12-0008 EA 20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	81,620.31	5,164.97
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	9,242.27	
23 81 23 12-0009 EA 22 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	85,387.07	5,335.32
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	9,676.40	
23 81 23 12-0010 EA 24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type	92,910.12	5,509.29
<small>Note: Includes interior unit and remote condenser. Excludes piping.</small>		
<i>For Liebert Unit, Add</i>	10,579.63	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0011 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	100,527.19 11,413.58	6,197.96
23 81 23 12-0012 Floor Mounted Chilled Water Type ^(23 81 23 12) Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source.		
23 81 23 12-0013 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	24,018.59 2,687.74	1,887.50
23 81 23 12-0014 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	25,820.78 2,879.14	2,090.76
23 81 23 12-0015 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	32,030.90 3,473.11	3,184.54
23 81 23 12-0016 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	33,472.09 3,646.32	3,226.50
23 81 23 12-0017 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	34,761.62 3,783.79	3,355.55
23 81 23 12-0018 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	35,614.54 3,838.78	3,678.20
23 81 23 12-0019 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	37,793.60 4,058.74	4,000.85
23 81 23 12-0020 Floor Mounted Water Source ^(23 81 23 12) Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.		
23 81 23 12-0021 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	18,673.91 2,012.62	1,721.65
23 81 23 12-0022 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	20,537.15 2,229.36	1,807.74
23 81 23 12-0023 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	26,548.21 2,964.74	1,893.83
23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	28,616.21 3,189.23	2,065.99
23 81 23 12-0025 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	31,599.52 3,529.83	2,238.15
23 81 23 12-0026 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	32,854.70 3,653.68	2,410.32
23 81 23 12-0027 EA 15 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	34,309.02 3,808.50	2,582.48
23 81 23 12-0028 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	35,295.25 3,901.39	2,754.65
23 81 23 12-0029 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	40,393.29 4,438.08	3,271.14
23 81 23 12-0030 Floor Mounted Glycol System Type ^(23 81 23 12) Note: Includes drycoolers, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.		
23 81 23 12-0031 EA 3 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	34,512.15 3,999.44	1,887.50
23 81 23 12-0032 EA 5 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	37,163.91 4,297.03	2,090.76
23 81 23 12-0033 EA 6 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	57,123.36 6,750.02	2,342.43
23 81 23 12-0034 EA 9 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	58,986.43 6,940.96	2,594.10
23 81 23 12-0035 EA 10 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	63,147.70 7,419.17	2,845.76
23 81 23 12-0036 EA 16 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	75,539.25 8,901.97	3,226.50
23 81 23 12-0037 EA 20 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	82,780.45 9,786.15	3,355.55
23 81 23 12-0038 EA 22 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	85,890.73 10,123.30	3,678.20
23 81 23 12-0039 EA 30 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	104,502.85 12,397.39	4,000.85
23 81 23 12-0040 Removal And Reinstallation Of Computer Room Unit ^(23 81 23 12) Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.		
23 81 23 12-0041 EA Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit	2,581.20	
23 81 23 12-0042 EA Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit	2,151.00	

23 81 23 13 Computer-Room Air-Conditioners, Ceiling Mounted Units ^(23 81 23)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 13-0001 Ceiling Mounted Packaged Computer Room Air Conditioner <small>(23 81 23 13)</small>		
<small>Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquid sensors, floor stand, and outdoor air cooled condenser complete with fan speed control.</small>		
23 81 23 13-0002 EA 1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	14,044.75	818.24
<i>For Liebert Unit, Add</i>	<i>1,602.24</i>	
23 81 23 13-0003 EA 1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	15,550.67	982.66
<i>For Liebert Unit, Add</i>	<i>1,759.67</i>	
23 81 23 13-0004 EA 2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	17,790.89	1,229.81
<i>For Liebert Unit, Add</i>	<i>1,993.40</i>	
23 81 23 13-0005 EA 3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	21,837.80	1,434.76
<i>For Liebert Unit, Add</i>	<i>2,460.85</i>	
23 81 23 13-0006 EA 5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System	29,504.07	1,559.42
<i>For Liebert Unit, Add</i>	<i>3,395.76</i>	
23 81 26 Split-System Air-Conditioners <small>(23 81)</small>		
23 81 26 13 Small-Capacity Split-System Air-Conditioners <small>(23 81 26)</small>		
23 81 26 13-0001 Split System A/C Unit <small>(23 81 26 13)</small>		
<small>Note: See CSI section 23 23 16 00-0001 for piping, 23 54 00 00-0000 for furnaces.</small>		
23 81 26 13-0002 Ductless Split System Air Conditioners <small>(23 81 26 13-0001)</small>		
<small>Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0024 for ductless heat pumps.</small>		
23 81 26 13-0003 Wall Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
23 81 26 13-0004 EA 9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners	2,238.82	425.89
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0005 EA 11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner	2,429.02	464.61
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0006 EA 17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners	3,013.10	516.24
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0007 EA 24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners	3,348.69	567.87
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0008 EA 25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners	5,048.22	619.49
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0009 EA 29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners	5,844.84	645.30
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0010 EA 31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners	6,404.38	687.88
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
<small>Note: Use this section only when matching indoor and outdoor capacity units are not used.</small>		
23 81 26 13-0012 EA 7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	973.87	206.50
<small>Note: Includes indoor unit and wireless thermostat.</small>		
23 81 26 13-0013 EA 9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,030.99	219.40
<small>Note: Includes indoor unit and wireless thermostat.</small>		
23 81 26 13-0014 EA 11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,088.96	232.31
<small>Note: Includes indoor unit and wireless thermostat.</small>		
23 81 26 13-0015 EA 17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,224.92	245.22
<small>Note: Includes indoor unit and wireless thermostat.</small>		
23 81 26 13-0016 EA 24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners	1,309.46	258.12
<small>Note: Includes indoor unit and wireless thermostat.</small>		
23 81 26 13-0017 EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	2,597.08	309.74
<small>Note: Includes outdoor unit and refrigerant charge.</small>		
23 81 26 13-0018 EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	2,871.56	335.56
<small>Note: Includes outdoor unit and refrigerant charge.</small>		
23 81 26 13-0019 EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners	4,465.71	361.37
<small>Note: Includes outdoor unit and refrigerant charge.</small>		
23 81 26 13-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
<small>Note: Excludes hangers.</small>		
23 81 26 13-0021 EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners	5,385.27	619.49
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0022 EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners	6,563.69	739.52
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0023 EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners	7,953.33	774.35
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
<small>Note: Excludes hangers.</small>		
23 81 26 13-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	3,360.15	516.24
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	3,906.55	567.87
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		
23 81 26 13-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners	5,385.78	671.11
<small>Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 13-0028	EA		32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,220.91	739.52
23 81 26 13-0029	EA		39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,781.94	774.35
23 81 26 13-0030			Ductless Split System Accessories <small>(23 81 26 13-0002)</small>		
23 81 26 13-0031	LF		3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	12.84	1.85
23 81 26 13-0032	LF		4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	16.29	2.03
23 81 26 13-0033	LF		6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	20.11	2.24
23 81 26 13-0034	EA		3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	21.78	3.47
23 81 26 13-0035	EA		4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	36.02	3.81
23 81 26 13-0036	EA		6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	40.93	4.19
23 81 26 13-0037	EA		3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	52.99	6.94
23 81 26 13-0038	EA		4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	85.21	7.63
23 81 26 13-0039	EA		6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	95.04	8.40
23 81 26 13-0040	EA		3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	69.46	7.40
23 81 26 13-0041	EA		4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	81.11	8.14
23 81 26 13-0042	EA		6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	123.09	8.95
23 81 26 13-0043	EA		3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	52.99	6.94
23 81 26 13-0044	EA		4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	85.21	7.63
23 81 26 13-0045	EA		6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	95.04	8.40
23 81 26 13-0046	EA		3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	70.78	11.57
23 81 26 13-0047	EA		4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	100.63	12.72
23 81 26 13-0048	EA		6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	119.54	13.99
23 81 26 13-0049	EA		2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers	37.10	2.31
23 81 26 13-0050	EA		3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	43.58	6.94
23 81 26 13-0051	EA		4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	68.28	7.63
23 81 26 13-0052	EA		3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	39.82	6.94
23 81 26 13-0053	EA		4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	53.22	7.63
23 81 26 13-0054	EA		6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	57.40	8.40
23 81 26 13-0055	EA		4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	176.68	9.25
23 81 26 13-0056	EA		6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	200.18	10.18
23 81 26 13-0057	EA		14" Condensing Unit Mounting Blocks With End Caps	131.44	34.69
23 81 26 13-0058	EA		17" Condensing Unit Mounting Blocks With End Caps	144.09	37.00
23 81 26 13-0059	EA		36" Condensing Unit Mounting Blocks With End Caps	188.74	39.31
23 81 26 13-0060	EA		End Cap, Set of 4	18.80	
23 81 26 13-0061	EA		18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity	276.21	69.38
23 81 26 13-0062	EA		21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity	293.43	74.00
23 81 26 13-0063	LF		5/8" ID Condensate Drain Line	2.65	0.18
23 81 26 13-0064	LF		3/4" ID Condensate Drain Line	2.74	0.18
23 81 26 13-0065			Cased A/C Evaporator Coils <small>(23 81 26 13-0001)</small>		
23 81 26 13-0066			Vertical Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0067	EA		1-1/2 Ton Vertical Cased A/C Evaporator Coil	608.89	140.89
23 81 26 13-0068	EA		2 Ton Vertical Cased A/C Evaporator Coil	639.18	151.45
23 81 26 13-0069	EA		2-1/2 Ton Vertical Cased A/C Evaporator Coil	744.05	162.02
23 81 26 13-0070	EA		3 Ton Vertical Cased A/C Evaporator Coil	837.17	172.59
23 81 26 13-0071	EA		3-1/2 Ton Vertical Cased A/C Evaporator Coil	950.70	179.63
23 81 26 13-0072	EA		4 Ton Vertical Cased A/C Evaporator Coil	1,048.52	186.68
23 81 26 13-0073	EA		4-1/2 Ton Vertical Cased A/C Evaporator Coil	1,126.43	200.77
23 81 26 13-0074	EA		5 Ton Vertical Cased A/C Evaporator Coil	1,142.35	211.34
23 81 26 13-0075			"A" Style Horizontal Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0076	EA		2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	720.62	144.41
23 81 26 13-0077	EA		2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	816.57	152.52
23 81 26 13-0078	EA		3 Ton "A" Style Horizontal Cased A/C Evaporator Coil	923.23	162.02
23 81 26 13-0079	EA		3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	957.26	167.87
23 81 26 13-0080	EA		4 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,002.54	176.11
23 81 26 13-0081	EA		4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,021.04	185.27
23 81 26 13-0082	EA		5 Ton "A" Style Horizontal Cased A/C Evaporator Coil	1,039.17	194.42
23 81 26 13-0083			Slab Style Horizontal Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0084	EA		2 Ton Slab Style Horizontal Cased A/C Evaporator Coil	646.04	144.41
23 81 26 13-0085	EA		3 Ton Slab Style Horizontal Cased A/C Evaporator Coil	764.90	162.02
23 81 26 13-0086	EA		4 Ton Slab Style Horizontal Cased A/C Evaporator Coil	874.31	176.11
23 81 26 13-0087	EA		5 Ton Slab Style Horizontal Cased A/C Evaporator Coil	1,037.86	194.42
23 81 26 16			Large-Capacity Split-System Air-Conditioners <small>(23 81 26)</small>		
23 81 26 16-0001			Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) <small>(23 81 26 16)</small>		
23 81 26 16-0002			Outdoor Units <small>(23 81 26 16-0001)</small>		
23 81 26 16-0003	EA		6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A)	14,461.69	677.56
23 81 26 16-0004	EA		8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A)	15,714.92	806.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0005	EA			10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A).....	17,721.60	967.95
23 81 26 16-0006	EA			12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A).....	21,724.04	1,000.21
23 81 26 16-0007	EA			12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A).....	28,754.35	1,032.48
23 81 26 16-0008	EA			14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A).....	29,814.00	1,064.74
23 81 26 16-0009	EA			16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A).....	30,873.64	1,097.00
23 81 26 16-0010	EA			18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A).....	32,686.73	1,161.53
23 81 26 16-0011	EA			20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A).....	34,499.83	1,226.07
23 81 26 16-0012	EA			22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A).....	38,566.82	1,290.60
23 81 26 16-0013	EA			24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A).....	42,633.79	1,355.13
23 81 26 16-0014 Indoor Units <small>(23 81 26 16-0001)</small>						
23 81 26 16-0015	EA			6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2).....	1,567.65	209.73
23 81 26 16-0016	EA			8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2).....	1,650.95	225.86
23 81 26 16-0017	EA			12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2).....	1,725.73	241.99
23 81 26 16-0018	EA			15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2).....	1,813.29	258.12
23 81 26 16-0019	EA			18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2).....	1,978.13	306.52
23 81 26 16-0020	EA			24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2).....	2,223.70	371.05
23 81 26 16-0021	EA			30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2).....	2,409.86	403.31
23 81 26 16-0022	EA			6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3).....	2,234.72	230.70
23 81 26 16-0023	EA			8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3).....	2,316.99	248.44
23 81 26 16-0024	EA			12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3).....	2,446.06	266.19
23 81 26 16-0025	EA			15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3).....	2,651.65	283.93
23 81 26 16-0026	EA			18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3).....	2,817.66	337.17
23 81 26 16-0027	EA			24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3).....	3,112.71	408.15
23 81 26 16-0028	EA			27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3).....	3,271.54	425.89
23 81 26 16-0029	EA			30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3).....	3,447.36	443.64
23 81 26 16-0030	EA			36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3).....	3,821.01	488.01
23 81 26 16-0031	EA			48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3).....	4,233.31	536.80
23 81 26 16-0032	EA			54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3).....	4,587.32	590.49
23 81 26 16-0033	EA			72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E).....	5,764.31	649.54
23 81 26 16-0034	EA			96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E).....	6,532.13	714.49
23 81 26 16-0035	EA			12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E).....	2,542.17	266.19
23 81 26 16-0036	EA			15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E).....	2,682.27	283.93
23 81 26 16-0037	EA			18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E).....	2,850.83	337.17
23 81 26 16-0038	EA			24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E).....	3,211.37	408.15
23 81 26 16-0039	EA			30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E).....	3,461.82	443.64
23 81 26 16-0040	EA			36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E).....	4,208.00	488.01
23 81 26 16-0041	EA			6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5).....	2,281.50	230.70
23 81 26 16-0042	EA			8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5).....	2,402.04	248.44
23 81 26 16-0043	EA			12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5).....	2,582.14	266.19
23 81 26 16-0044	EA			15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5).....	2,719.69	283.93
23 81 26 16-0045	EA			8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4).....	2,129.87	248.44
23 81 26 16-0046	EA			12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4).....	2,241.93	266.19
23 81 26 16-0047	EA			15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4).....	2,358.22	283.93
23 81 26 16-0048 Controllers For Outdoor Units <small>(23 81 26 16-0001)</small>						
23 81 26 16-0049	EA			8 Branch (Main BC) (Mitsubishi CMB-P108NU-HA1).....	7,744.20	193.59
23 81 26 16-0050	EA			10 Branch (Main BC) (Mitsubishi CMB-P1010NU-HA1).....	8,956.94	225.86
23 81 26 16-0051	EA			13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA).....	9,901.76	258.12
23 81 26 16-0052	EA			16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA).....	11,743.88	290.39
23 81 26 16-0053	EA			4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB).....	4,327.87	129.06
23 81 26 16-0054	EA			8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB).....	6,664.04	193.59
23 81 26 16-0055	EA			16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB).....	10,183.17	290.39
23 81 26 16-0056 Energy Recovery Units <small>(23 81 26 16-0001)</small>						
23 81 26 16-0057	EA			36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NMMU-E2-AU).....	5,507.33	193.59
23 81 26 16-0058	EA			39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NMMU-E-BU).....	10,338.30	193.59
23 81 26 16-0059	EA			112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR).....	10,500.64	225.86
23 81 26 16-0060	EA			Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E).....	2,236.33	161.32
23 81 26 16-0061	EA			Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E).....	2,831.84	167.77
23 81 26 16-0062	EA			Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E).....	3,363.56	174.24
23 81 26 16-0063	EA			Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX5-E1).....	6,072.92	193.59

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0064			Piping Specialties (23 81 26 16-0001)		
23 81 26 16-0065	EA		Maintenance Tool Interface (Mitsubishi CMS-MNG-E)	756.97	
23 81 26 16-0066	EA		Branch Joint (Mitsubishi CMY-Y102SS-G2)	233.21	53.52
23 81 26 16-0067	EA		Branch Joint (Mitsubishi CMY-Y102LS-G2)	233.21	53.52
23 81 26 16-0068	EA		Branch Joint (Mitsubishi CMY-Y202S-G2)	257.26	56.34
23 81 26 16-0069	EA		Branch Joint (Mitsubishi CMY-Y302S-G2)	318.13	63.38
23 81 26 16-0070	EA		Header - 4 Branch (Mitsubishi CMY-Y64-G-E)	421.25	91.54
23 81 26 16-0071	EA		Header - 8 Branch (Mitsubishi CMY-Y68-G-E)	731.91	183.10
23 81 26 16-0072	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFSI)	125.87	22.54
23 81 26 16-0073	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFSI)	145.32	30.98
23 81 26 16-0074			Split System Air Conditioners (Daikin VRV) (23 81 26 16)		
23 81 26 16-0075			Heat Pump Outdoor Units (23 81 26 16-0074)		
23 81 26 16-0076	EA		6 Ton Heat Pump Outdoor Unit (Daikin RXYQ72PBTJ)	20,784.69	677.56
23 81 26 16-0077	EA		8 Ton Heat Pump Outdoor Unit (Daikin RXYQ96PBTJ)	23,258.46	806.62
23 81 26 16-0078	EA		10 Ton Heat Pump Outdoor Unit (Daikin RXYQ120PBTJ)	25,967.20	967.95
23 81 26 16-0079	EA		12 Ton Heat Pump Outdoor Unit (Daikin RXYQ144PBTJ)	32,337.81	1,000.21
23 81 26 16-0080	EA		14 Ton Heat Pump Outdoor Unit (Daikin RXYQ168PBTJ)	43,204.25	1,064.74
23 81 26 16-0081	EA		16 Ton Heat Pump Outdoor Unit (Daikin RXYQ192PBTJ)	45,654.87	1,097.00
23 81 26 16-0082	EA		18 Ton Heat Pump Outdoor Unit (Daikin RXYQ216PBTJ)	47,999.58	1,161.53
23 81 26 16-0083	EA		20 Ton Heat Pump Outdoor Unit (Daikin RXYQ240PBTJ)	50,514.73	1,226.07
23 81 26 16-0084	EA		22 Ton Heat Pump Outdoor Unit (Daikin RXYQ264PBTJ)	65,301.19	1,290.60
23 81 26 16-0085	EA		24 Ton Heat Pump Outdoor Unit (Daikin RXYQ288PBTJ)	67,816.32	1,355.13
23 81 26 16-0086	EA		26 Ton Heat Pump Outdoor Unit (Daikin RXYQ312PBTJ)	70,331.47	1,419.65
23 81 26 16-0087	EA		28 Ton Heat Pump Outdoor Unit (Daikin RXYQ336PBTJ)	72,676.18	1,484.18
23 81 26 16-0088	EA		30 Ton Heat Pump Outdoor Unit (Daikin RXYQ360PBTJ)	75,191.33	1,548.72
23 81 26 16-0089			Heat Recovery Heat Pump Outdoor Units (23 81 26 16-0074)		
23 81 26 16-0090	EA		6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ72PBTJ)	26,624.23	880.84
23 81 26 16-0091	EA		8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ96PBTJ)	29,080.58	1,048.61
23 81 26 16-0092	EA		10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ120PBTJ)	32,001.87	1,258.33
23 81 26 16-0093	EA		12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ144PBTJ)	40,096.19	1,300.28
23 81 26 16-0094	EA		14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ168PBTJ)	54,069.19	1,384.16
23 81 26 16-0095	EA		16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ192PBTJ)	58,243.50	1,426.11
23 81 26 16-0096	EA		18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ216PBTJ)	60,456.51	1,509.99
23 81 26 16-0097	EA		20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ240PBTJ)	62,669.50	1,593.89
23 81 26 16-0098	EA		22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ264PBTJ)	82,352.06	1,677.78
23 81 26 16-0099	EA		24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ288PBTJ)	84,565.04	1,761.66
23 81 26 16-0100	EA		26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ312PBTJ)	88,823.27	1,845.55
23 81 26 16-0101	EA		28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ336PBTJ)	91,036.25	1,929.44
23 81 26 16-0102			Indoor Units (23 81 26 16-0074)		
23 81 26 16-0103	EA		7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ07PVJU)	2,445.47	225.86
23 81 26 16-0104	EA		9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ09PVJU)	2,553.24	232.31
23 81 26 16-0105	EA		12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ12PVJU)	2,879.70	241.99
23 81 26 16-0106	EA		18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ18PVJU)	3,243.52	306.52
23 81 26 16-0107	EA		24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ24PVJU)	3,575.17	371.05
23 81 26 16-0108	EA		7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ07PVJU)	3,545.40	248.44
23 81 26 16-0109	EA		9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ09PVJU)	3,664.11	255.54
23 81 26 16-0110	EA		12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ12PVJU)	3,847.82	141.96
23 81 26 16-0111	EA		18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ18PVJU)	4,110.37	337.17
23 81 26 16-0112	EA		24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ24PVJU)	4,874.58	408.15
23 81 26 16-0113	EA		30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ30PVJU)	5,564.60	443.64
23 81 26 16-0114	EA		36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ36PVJU)	5,952.38	488.01
23 81 26 16-0115	EA		48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ48PVJU)	6,170.58	536.80
23 81 26 16-0116	EA		7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ07M7VJU)	3,953.80	248.44
23 81 26 16-0117	EA		9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ09M7VJU)	4,048.39	255.54
23 81 26 16-0118	EA		12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ12M7VJU)	4,302.85	266.19
23 81 26 16-0119	EA		18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ18M7VJU)	4,613.63	337.17
23 81 26 16-0120			Branch Selector Boxes (23 81 26 16-0074)		
23 81 26 16-0121	EA		144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin BSV4Q36PVJU)	11,829.46	290.39
23 81 26 16-0122	EA		216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin BSV6Q36PVJU)	17,476.96	387.18
23 81 26 16-0123	EA		36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin BSVQ36PVJU)	2,364.44	129.06
23 81 26 16-0124	EA		60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ60PVJU)	3,196.14	193.59
23 81 26 16-0125	EA		96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ96PVJU)	3,989.47	290.39
23 81 26 16-0126			Controllers (23 81 26 16-0074)		
23 81 26 16-0127	EA		Up To 16 Units, Navigation Controller (Daikin BRC1E71)	780.68	25.81
23 81 26 16-0128	EA		Individual Zone Controller (Daikin BRC2A71)	581.30	25.81
23 81 26 16-0129	EA		Up To 16 Groups, Unified ON/OFF Controller (Daikin DCS301C71)	1,068.49	25.81
23 81 26 16-0130	EA		Up To 64 Units, Multizone Controller (Daikin DCS302C71)	1,472.07	25.81
23 81 26 16-0131	EA		I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin DCM601A71)	13,870.19	309.74
23 81 26 16-0132	EA		I-Touch Manager D3net Plus Adapter (Daikin DCM601A72)	2,509.14	25.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0133 EA 24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin DACA-TS1-1).....	560.83	45.55
23 81 26 16-0134 Energy Recovery Units <small>(23 81 26 16-0074)</small>		
23 81 26 16-0135 EA 300 CFM Energy Recovery Unit (Daikin VAM300GVJU).....	4,115.63	161.32
23 81 26 16-0136 EA 470 CFM Energy Recovery Unit (Daikin VAM470GVJU).....	5,321.58	167.77
23 81 26 16-0137 EA 600 CFM Energy Recovery Unit (Daikin VAM600GVJU).....	6,357.09	174.24
23 81 26 16-0138 EA 1,200 CFM Energy Recovery Unit (Daikin VAM1200GVJU).....	11,806.31	193.59
23 81 43 Air-Source Unitary Heat Pumps <small>(23 81)</small>		
23 81 43 00-0001 Single Package Thru-Wall Heat Pumps <small>(23 81 43)</small>		
<small>Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-0777 for crane lifting equipment.</small>		
23 81 43 00-0002 EA 1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	1,998.14	209.95
<i>For Unit Economizer, Add</i>	263.50	
<i>For >35 To 70, Deduct</i>	-47.77	
<i>For >70 To 100, Deduct</i>	-79.61	
<i>For >100, Deduct</i>	-111.46	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	244.78	
23 81 43 00-0003 EA 1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	2,203.06	223.96
<i>For Unit Economizer, Add</i>	291.07	
<i>For >35 To 70, Deduct</i>	-53.07	
<i>For >70 To 100, Deduct</i>	-88.46	
<i>For >100, Deduct</i>	-123.84	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	267.70	
23 81 43 00-0004 EA 1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	3,689.14	223.96
<i>For Unit Economizer, Add</i>	499.12	
<i>For >35 To 70, Deduct</i>	-97.66	
<i>For >70 To 100, Deduct</i>	-162.76	
<i>For >100, Deduct</i>	-227.87	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	401.45	
23 81 43 00-0005 EA 2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,035.58	223.96
<i>For Unit Economizer, Add</i>	546.51	
<i>For >35 To 70, Deduct</i>	-107.21	
<i>For >70 To 100, Deduct</i>	-178.68	
<i>For >100, Deduct</i>	-250.16	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	222.69	
23 81 43 00-0006 EA 2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,558.94	237.95
<i>For Unit Economizer, Add</i>	618.66	
<i>For >35 To 70, Deduct</i>	-122.07	
<i>For >70 To 100, Deduct</i>	-203.45	
<i>For >100, Deduct</i>	-284.83	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	244.55	
23 81 43 00-0007 EA 3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,771.24	251.95
<i>For Unit Economizer, Add</i>	648.38	
<i>For >35 To 70, Deduct</i>	-128.44	
<i>For >70 To 100, Deduct</i>	-214.07	
<i>For >100, Deduct</i>	-299.69	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	679.05	
23 81 43 00-0008 EA 3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,365.36	251.95
<i>For Unit Economizer, Add</i>	730.43	
<i>For >35 To 70, Deduct</i>	-145.42	
<i>For >70 To 100, Deduct</i>	-242.37	
<i>For >100, Deduct</i>	-339.32	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	759.64	
23 81 43 00-0009 EA 4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,910.10	265.94
<i>For Unit Economizer, Add</i>	806.14	
<i>For >35 To 70, Deduct</i>	-161.35	
<i>For >70 To 100, Deduct</i>	-268.91	
<i>For >100, Deduct</i>	-376.47	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	832.14	
23 81 43 00-0010 EA 5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	6,807.89	307.93
<i>For Unit Economizer, Add</i>	928.47	
<i>For >35 To 70, Deduct</i>	-185.76	
<i>For >70 To 100, Deduct</i>	-309.60	
<i>For >100, Deduct</i>	-433.44	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	958.93	
23 81 43 00-0011 EA 7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	12,382.84	363.92
<i>For Unit Economizer, Add</i>	1,703.92	
<i>For >35 To 70, Deduct</i>	-349.23	
<i>For >70 To 100, Deduct</i>	-582.05	
<i>For >100, Deduct</i>	-814.87	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,698.79	
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	15,940.18	461.90
<i>For Unit Economizer, Add</i>	2,194.11	
<i>For >35 To 70, Deduct</i>	-450.07	
<i>For >70 To 100, Deduct</i>	-750.12	
<i>For >100, Deduct</i>	-1,050.17	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	384.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0013	EA		12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	19,434.92	517.90
			<i>For Unit Economizer, Add</i>	2,679.46	
			<i>For >35 To 70, Deduct</i>	-551.97	
			<i>For >70 To 100, Deduct</i>	-919.96	
			<i>For >100, Deduct</i>	-1,287.94	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	442.94	
23 81 43 00-0014	EA		15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	23,948.39	587.88
			<i>For Unit Economizer, Add</i>	3,306.30	
			<i>For >35 To 70, Deduct</i>	-683.60	
			<i>For >70 To 100, Deduct</i>	-1,139.33	
			<i>For >100, Deduct</i>	-1,595.06	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	518.31	
23 81 43 00-0015	EA		20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	31,830.62	629.87
			<i>For Unit Economizer, Add</i>	4,405.90	
			<i>For >35 To 70, Deduct</i>	-917.13	
			<i>For >70 To 100, Deduct</i>	-1,528.54	
			<i>For >100, Deduct</i>	-2,139.96	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	620.65	
23 81 43 00-0016	EA		25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	38,311.52	685.86
			<i>For Unit Economizer, Add</i>	5,308.74	
			<i>For >35 To 70, Deduct</i>	-1,108.19	
			<i>For >70 To 100, Deduct</i>	-1,846.99	
			<i>For >100, Deduct</i>	-2,585.79	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	712.33	
23 81 43 00-0017			Single Package Vertical Wall Heat Pumps <small>(23 81 43)</small>		
			Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0777 for crane lifting equipment.		
23 81 43 00-0018	EA		1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	3,061.58	279.95
23 81 43 00-0019	EA		1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	3,691.28	307.93
23 81 43 00-0020	EA		1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	4,735.50	321.94
23 81 43 00-0021	EA		2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	5,419.94	349.93
23 81 43 00-0022	EA		2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	6,762.08	405.91
23 81 43 00-0023	EA		3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	7,234.46	461.90
23 81 43 00-0024	EA		3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat	7,868.55	517.90
23 81 43 00-0025	EA		4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	8,849.66	573.89
23 81 43 00-0026	EA		5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	9,996.24	685.86
23 81 43 00-0027			Heat Pump, Room Air-Conditioners <small>(23 81 43)</small>		
			Note: Includes throwaway filters and supplemental heat.		
23 81 43 00-0028			Heat Pump, Window Unit, Room Air-Conditioners <small>(23 81 43 00-0027)</small>		
23 81 43 00-0029			Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) <small>(23 81 43 00-0028)</small>		
23 81 43 00-0030	EA		10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C)	2,088.57	135.51
			<i>For >10 To 50, Deduct</i>	-90.88	
			<i>For >50 To 75, Deduct</i>	-127.23	
			<i>For >75 To 100, Deduct</i>	-181.75	
			<i>For >100, Deduct</i>	-218.10	
23 81 43 00-0031	EA		12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C)	2,350.51	135.51
			<i>For >10 To 50, Deduct</i>	-103.97	
			<i>For >50 To 75, Deduct</i>	-145.56	
			<i>For >75 To 100, Deduct</i>	-207.95	
			<i>For >100, Deduct</i>	-249.54	
23 81 43 00-0032	EA		17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A).....	2,743.41	135.51
			<i>For >10 To 50, Deduct</i>	-123.62	
			<i>For >50 To 75, Deduct</i>	-173.07	
			<i>For >75 To 100, Deduct</i>	-247.24	
			<i>For >100, Deduct</i>	-296.69	
23 81 43 00-0033	EA		24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D).....	3,179.97	135.51
			<i>For >10 To 50, Deduct</i>	-145.45	
			<i>For >50 To 75, Deduct</i>	-203.63	
			<i>For >75 To 100, Deduct</i>	-290.89	
			<i>For >100, Deduct</i>	-349.07	
23 81 43 00-0034			Heat Pump, Through-The-Wall, Room Air-Conditioners <small>(23 81 43 00-0027)</small>		
			Note: Base unit excludes wall sleeve.		
23 81 43 00-0035			Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) <small>(23 81 43 00-0034)</small>		
23 81 43 00-0036	EA		9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D)	2,083.89	96.79
			<i>For >10 To 50, Deduct</i>	-94.52	
			<i>For >50 To 75, Deduct</i>	-132.32	
			<i>For >75 To 100, Deduct</i>	-189.03	
			<i>For >100, Deduct</i>	-226.84	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0037 EA 11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A).....	2,083.89	96.79
<i>For >10 To 50, Deduct</i>	-94.52	
<i>For >50 To 75, Deduct</i>	-132.32	
<i>For >75 To 100, Deduct</i>	-189.03	
<i>For >100, Deduct</i>	-226.84	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	299.78	
23 81 46 Water-Source Unitary Heat Pumps (23 81)		
23 81 46 00-0001 Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46)		
Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.		
23 81 46 00-0002 EA 7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,958.20	281.78
23 81 46 00-0003 EA 9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,046.17	281.78
23 81 46 00-0004 EA 12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,511.07	309.96
23 81 46 00-0005 EA 19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,706.23	338.13
23 81 46 00-0006 EA 24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,977.60	366.31
23 81 46 00-0007 EA 30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	4,659.51	394.49
23 81 46 00-0008 EA 36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	4,774.51	422.67
23 81 46 00-0009 EA 42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	5,202.28	450.84
23 81 46 00-0010 EA 48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	5,551.85	479.02
23 81 46 00-0011 EA 60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	5,657.08	507.20
23 81 49 Split System Heat Pumps (23 81)		
23 81 49 00-0001 Air Cooled, Outdoor Section (23 81 49)		
23 81 49 00-0002 EA 1.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,449.76	415.71
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	636.85	
<i>For Winterstart Control, Add</i>	175.78	
<i>For 15 SEER, Add</i>	507.58	
<i>For 16 SEER, Add</i>	817.77	
<i>For 18 SEER, Add</i>	1,240.75	
23 81 49 00-0003 EA 2 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,574.70	461.90
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	663.69	
<i>For Winterstart Control, Add</i>	184.98	
<i>For 15 SEER, Add</i>	517.47	
<i>For 16 SEER, Add</i>	833.71	
<i>For 18 SEER, Add</i>	1,264.93	
23 81 49 00-0004 EA 2.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	3,921.67	536.09
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	731.63	
<i>For Winterstart Control, Add</i>	205.58	
<i>For 15 SEER, Add</i>	559.77	
<i>For 16 SEER, Add</i>	901.85	
<i>For 18 SEER, Add</i>	1,368.33	
23 81 49 00-0005 EA 3 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,296.97	615.87
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	636.95	
<i>For Winterstart Control, Add</i>	227.87	
<i>For 15 SEER, Add</i>	605.48	
<i>For 16 SEER, Add</i>	975.50	
<i>For 18 SEER, Add</i>	1,480.06	
23 81 49 00-0006 EA 3.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,435.12	639.67
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	658.18	
<i>For Winterstart Control, Add</i>	235.54	
<i>For 15 SEER, Add</i>	623.90	
<i>For 16 SEER, Add</i>	1,005.17	
<i>For 18 SEER, Add</i>	1,525.09	
23 81 49 00-0007 EA 4 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,917.66	734.85
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	726.59	
<i>For Winterstart Control, Add</i>	259.69	
<i>For 15 SEER, Add</i>	696.22	
<i>For 16 SEER, Add</i>	1,121.69	
<i>For 18 SEER, Add</i>	1,701.87	
23 81 49 00-0008 EA 5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,585.48	808.33
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	510.23	
<i>For Winterstart Control, Add</i>	159.78	
<i>For 15 SEER, Add</i>	797.53	
<i>For 16 SEER, Add</i>	1,284.91	
<i>For 18 SEER, Add</i>	1,949.52	
23 81 49 00-0009 EA 7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit.....	6,766.45	903.42
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	596.44	
<i>For Winterstart Control, Add</i>	183.82	
23 81 49 00-0010 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit.....	9,303.14	1,084.10
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For Low Ambient Protection, 0 Degree F, Add</i>	468.40	
<i>For Winterstart Control, Add</i>	232.64	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81	49 00-0011	EA	15 Ton, 10.9 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	12,178.93 531.23 284.02	1,264.79
23 81	49 00-0012	EA	20 Ton, 10.3 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	21,567.79 564.48 389.87	1,355.13
23 81	49 00-0013		Indoor Section, Horizontal Upflow ^(23 81 49) Note: Electric heat. Includes throwaway filters.		
23 81	49 00-0014	EA	2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,183.70 104.49	138.09
23 81	49 00-0015	EA	2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,314.36 114.23	172.03
23 81	49 00-0016	EA	3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,386.52 117.84	207.78
23 81	49 00-0017	EA	3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,850.34 160.68	243.28
23 81	49 00-0018	EA	4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,912.52 163.79	274.25
23 81	49 00-0019	EA	5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	2,126.51 181.17	314.90
23 81	49 00-0020	EA	7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	4,460.21 394.40	516.24
23 81	49 00-0021	EA	10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 kW Electric Heat For Additional 5 KW Electric Heat, Add	6,486.00 590.53	580.77
23 81	49 00-0022	EA	15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat For Additional 5 KW Electric Heat, Add	9,014.82 836.95	645.30
23 81	49 00-0023	EA	20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat For Additional 5 KW Electric Heat, Add	10,266.41 949.19	774.35
23 81	49 00-0024		Ductless Split System Heat Pumps ^(23 81 49) Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.		
23 81	49 00-0025		Wall Mounted Ductless Split System Heat Pumps ^(23 81 49 00-0024)		
23 81	49 00-0026	EA	9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,410.21	425.89
23 81	49 00-0027	EA	11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,663.81	464.61
23 81	49 00-0028	EA	17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,232.47	516.24
23 81	49 00-0029	EA	24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,712.88	567.87
23 81	49 00-0030	EA	25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,184.75	619.49
23 81	49 00-0031	EA	29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,975.09	645.30
23 81	49 00-0032	EA	31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,545.77	687.88
23 81	49 00-0033		Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps ^(23 81 49 00-0024) Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81	49 00-0034	EA	7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,011.58	206.50
23 81	49 00-0035	EA	9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,069.56	219.40
23 81	49 00-0036	EA	11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,128.38	232.31
23 81	49 00-0037	EA	17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,277.19	245.22
23 81	49 00-0038	EA	24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,360.88	258.12
23 81	49 00-0039	EA	19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	2,914.15	309.74
23 81	49 00-0040	EA	23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	3,441.42	335.56
23 81	49 00-0041	EA	30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes outdoor unit and refrigerant charge.	5,500.03	361.37
23 81	49 00-0042		Suspended Ceiling Mounted Ductless Split System Heat Pumps ^(23 81 49 00-0024) Note: Excludes hangers.		
23 81	49 00-0043	EA	24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,522.38	619.49
23 81	49 00-0044	EA	31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,705.08	739.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0045 EA 39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,039.02	774.35
23 81 49 00-0046 Recessed Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0024) Note: Excludes hangers.		
23 81 49 00-0047 EA 11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,702.92	516.24
23 81 49 00-0048 EA 17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,195.33	567.87
23 81 49 00-0049 EA 24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,522.89	671.11
23 81 49 00-0050 EA 32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,362.31	739.52
23 81 49 00-0051 EA 39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,867.64	774.35
23 82 Convection Heating and Cooling Units (23 80)		
23 82 16 Air Coils (23 82)		
23 82 16 11 Hydronic Air Coils (23 82 16)		
23 82 16 11-0001 Chilled Water Cooling Coils (23 82 16 11) Note: Flanged construction, 16 gauge galvanized steel casing.		
23 82 16 11-0002 2 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0003 EA 12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	1,718.90	70.45
23 82 16 11-0004 EA 12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	2,843.23	95.80
23 82 16 11-0005 EA 24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,837.64	150.75
23 82 16 11-0006 EA 24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,653.57	215.56
23 82 16 11-0007 EA 30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,957.54	264.88
23 82 16 11-0008 EA 30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,559.87	321.23
23 82 16 11-0009 EA 30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,971.66	371.94
23 82 16 11-0010 EA 30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,476.66	657.11
23 82 16 11-0011 EA 34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,953.41	249.80
23 82 16 11-0012 EA 34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,115.28	425.34
23 82 16 11-0013 EA 34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,728.35	528.34
23 82 16 11-0014 EA 34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,321.88	638.09
23 82 16 11-0015 EA 34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,921.35	743.05
23 82 16 11-0016 4 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0017 EA 12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	2,138.87	146.52
23 82 16 11-0018 EA 12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,434.64	211.34
23 82 16 11-0019 EA 24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,702.71	352.23
23 82 16 11-0020 EA 24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,780.03	522.70
23 82 16 11-0021 EA 30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,693.86	641.05
23 82 16 11-0022 EA 30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,962.67	783.34
23 82 16 11-0023 EA 30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,890.88	939.73
23 82 16 11-0024 EA 30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,746.80	1,093.87
23 82 16 11-0025 EA 34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,434.28	472.12
23 82 16 11-0026 EA 34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,964.13	710.09
23 82 16 11-0027 EA 34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,740.22	880.56
23 82 16 11-0028 EA 34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,681.27	1,060.90
23 82 16 11-0029 EA 34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,546.18	1,240.25

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0030		6 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
23 82 16 11-0031	EA	12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,015.78	185.98
23 82 16 11-0032	EA	12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,566.59	276.14
23 82 16 11-0033	EA	24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,876.02	470.57
23 82 16 11-0034	EA	24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,637.40	704.44
23 82 16 11-0035	EA	30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,711.95	880.56
23 82 16 11-0036	EA	30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,918.02	1,083.44
23 82 16 11-0037	EA	30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,542.35	1,280.68
23 82 16 11-0038	EA	30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,057.71	1,492.44
23 82 16 11-0039	EA	34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,816.29	645.13
23 82 16 11-0040	EA	34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,758.48	967.63
23 82 16 11-0041	EA	34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,889.87	1,211.65
23 82 16 11-0042	EA	34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,984.06	1,455.54
23 82 16 11-0043	EA	34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,082.99	1,693.35
23 82 16 11-0044		8 Row Chilled Water Cooling Coils <small>(23 82 16 11-0001)</small>		
23 82 16 11-0045	EA	12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,768.91	224.01
23 82 16 11-0046	EA	12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,624.03	343.77
23 82 16 11-0047	EA	24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,914.96	612.87
23 82 16 11-0048	EA	24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,198.43	939.73
23 82 16 11-0049	EA	30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,052.08	1,175.02
23 82 16 11-0050	EA	30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,844.22	1,408.90
23 82 16 11-0051	EA	30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	14,756.61	1,565.29
23 82 16 11-0052	EA	30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,713.02	1,815.65
23 82 16 11-0053	EA	34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,789.32	786.16
23 82 16 11-0054	EA	34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	10,040.01	1,181.93
23 82 16 11-0055	EA	34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	11,352.48	1,472.29
23 82 16 11-0056	EA	34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	12,604.50	1,761.12
23 82 16 11-0057	EA	34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	13,927.14	2,071.92
23 82 16 11-0058		Hot Water Heating Coils <small>(23 82 16 11)</small>		
		Note: Flanged construction.		
23 82 16 11-0059		1 Row Hot Water Heating Coils <small>(23 82 16 11-0059)</small>		
23 82 16 11-0060	EA	12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,400.52	190.20
		For 10 Fins Per Inch, Add	20.39	
		For 12 Fins Per Inch, Add	50.99	
		For 230 PSIG Heavy Duty, Add	318.18	
23 82 16 11-0061	EA	12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,061.77	243.74
		For 10 Fins Per Inch, Add	31.52	
		For 12 Fins Per Inch, Add	78.80	
		For 230 PSIG Heavy Duty, Add	460.94	
23 82 16 11-0062	EA	24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,524.95	335.32
		For 10 Fins Per Inch, Add	37.08	
		For 12 Fins Per Inch, Add	92.70	
		For 230 PSIG Heavy Duty, Add	572.08	
23 82 16 11-0063	EA	24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,025.07	470.57
		For 10 Fins Per Inch, Add	41.72	
		For 12 Fins Per Inch, Add	104.29	
		For 230 PSIG Heavy Duty, Add	698.94	
23 82 16 11-0064	EA	30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,444.69	563.56
		For 10 Fins Per Inch, Add	46.35	
		For 12 Fins Per Inch, Add	115.88	
		For 230 PSIG Heavy Duty, Add	801.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0065 EA 30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,050.93	704.44
<i>For 10 Fins Per Inch, Add</i>	52.84	
<i>For 12 Fins Per Inch, Add</i>	132.10	
<i>For 230 PSIG Heavy Duty, Add</i>	951.08	
23 82 16 11-0066 EA 30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,531.92	781.94
<i>For 10 Fins Per Inch, Add</i>	59.33	
<i>For 12 Fins Per Inch, Add</i>	148.32	
<i>For 230 PSIG Heavy Duty, Add</i>	1,062.93	
23 82 16 11-0067 EA 30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	5,585.15	909.16
<i>For 10 Fins Per Inch, Add</i>	75.20	
<i>For 12 Fins Per Inch, Add</i>	188.01	
<i>For 230 PSIG Heavy Duty, Add</i>	1,299.53	
23 82 16 11-0068 EA 34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,411.42	393.93
<i>For 10 Fins Per Inch, Add</i>	32.47	
<i>For 12 Fins Per Inch, Add</i>	81.17	
<i>For 230 PSIG Heavy Duty, Add</i>	561.08	
23 82 16 11-0069 EA 34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,617.11	591.03
<i>For 10 Fins Per Inch, Add</i>	48.70	
<i>For 12 Fins Per Inch, Add</i>	121.76	
<i>For 230 PSIG Heavy Duty, Add</i>	841.62	
23 82 16 11-0070 EA 34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	5,440.69	893.94
<i>For 10 Fins Per Inch, Add</i>	73.06	
<i>For 12 Fins Per Inch, Add</i>	182.64	
<i>For 230 PSIG Heavy Duty, Add</i>	1,266.93	
23 82 16 11-0071 EA 34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	6,333.41	1,035.96
<i>For 10 Fins Per Inch, Add</i>	85.23	
<i>For 12 Fins Per Inch, Add</i>	213.08	
<i>For 230 PSIG Heavy Duty, Add</i>	1,473.87	
23 82 16 11-0072 SF >15 SF Hot Water Heating Coil, 1 Row, Flanged Construction	290.88	52.13
<i>For 10 Fins Per Inch, Add</i>	3.73	
<i>For 12 Fins Per Inch, Add</i>	9.33	
<i>For 230 PSIG Heavy Duty, Add</i>	68.60	
23 82 16 11-0073 2 Row Hot Water Heating Coils (23 82 16 11-0058)		
23 82 16 11-0074 EA 12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,230.99	235.28
<i>For 10 Fins Per Inch, Add</i>	35.23	
<i>For 12 Fins Per Inch, Add</i>	88.07	
<i>For 230 PSIG Heavy Duty, Add</i>	493.16	
23 82 16 11-0075 EA 12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,433.88	312.77
<i>For 10 Fins Per Inch, Add</i>	36.15	
<i>For 12 Fins Per Inch, Add</i>	90.39	
<i>For 230 PSIG Heavy Duty, Add</i>	549.39	
23 82 16 11-0076 EA 24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,303.18	470.57
<i>For 10 Fins Per Inch, Add</i>	47.28	
<i>For 12 Fins Per Inch, Add</i>	118.20	
<i>For 230 PSIG Heavy Duty, Add</i>	754.56	
23 82 16 11-0077 EA 24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,030.19	670.63
<i>For 10 Fins Per Inch, Add</i>	53.77	
<i>For 12 Fins Per Inch, Add</i>	134.42	
<i>For 230 PSIG Heavy Duty, Add</i>	940.22	
23 82 16 11-0078 EA 30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,670.37	828.43
<i>For 10 Fins Per Inch, Add</i>	60.26	
<i>For 12 Fins Per Inch, Add</i>	150.64	
<i>For 230 PSIG Heavy Duty, Add</i>	1,099.83	
23 82 16 11-0079 EA 30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,025.55	1,005.95
<i>For 10 Fins Per Inch, Add</i>	60.26	
<i>For 12 Fins Per Inch, Add</i>	150.64	
<i>For 230 PSIG Heavy Duty, Add</i>	1,206.38	
23 82 16 11-0080 EA 30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,685.46	1,175.02
<i>For 10 Fins Per Inch, Add</i>	66.75	
<i>For 12 Fins Per Inch, Add</i>	166.87	
<i>For 230 PSIG Heavy Duty, Add</i>	1,371.91	
23 82 16 11-0081 EA 30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	6,960.62	1,365.22
<i>For 10 Fins Per Inch, Add</i>	84.60	
<i>For 12 Fins Per Inch, Add</i>	211.51	
<i>For 230 PSIG Heavy Duty, Add</i>	1,665.17	
23 82 16 11-0082 EA 34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,004.35	589.06
<i>For 10 Fins Per Inch, Add</i>	36.53	
<i>For 12 Fins Per Inch, Add</i>	91.32	
<i>For 230 PSIG Heavy Duty, Add</i>	718.67	
23 82 16 11-0083 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,509.50	884.93
<i>For 10 Fins Per Inch, Add</i>	54.79	
<i>For 12 Fins Per Inch, Add</i>	136.98	
<i>For 230 PSIG Heavy Duty, Add</i>	1,078.90	
23 82 16 11-0084 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	6,777.67	1,334.22
<i>For 10 Fins Per Inch, Add</i>	82.19	
<i>For 12 Fins Per Inch, Add</i>	205.47	
<i>For 230 PSIG Heavy Duty, Add</i>	1,622.37	
23 82 16 11-0085 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	7,911.25	1,558.52
<i>For 10 Fins Per Inch, Add</i>	95.88	
<i>For 12 Fins Per Inch, Add</i>	239.71	
<i>For 230 PSIG Heavy Duty, Add</i>	1,893.95	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0086			Hot Water Preheat Coils For Multi-Zone Air Handling Units <small>(23 82 16 11)</small>		
			Note: 2 Row coils. Coils are sized by air handling unit capacity.		
23 82 16 11-0087	EA		3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	1,807.48	178.93
23 82 16 11-0088	EA		4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,289.53	177.52
23 82 16 11-0089	EA		5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,795.69	190.20
23 82 16 11-0090	EA		6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,241.81	207.10
23 82 16 11-0091	EA		7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,260.94	216.97
23 82 16 11-0092	EA		9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,930.84	228.24
23 82 16 11-0093	EA		11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,081.38	256.42
23 82 16 11-0094	EA		13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,514.92	287.41
23 82 16 11-0095	EA		16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,090.65	343.77
23 82 16 11-0096	EA		19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,543.05	360.68
23 82 16 11-0097	EA		22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	7,065.34	381.81
23 82 16 11-0098	EA		27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	9,016.05	522.70
23 82 16 11-0099	EA		34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	11,320.52	641.05
23 82 16 11-0100	EA		40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	13,152.35	670.63
23 82 16 11-0101	EA		47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	15,447.66	781.94
23 82 16 12			Steam Air Coils <small>(23 82 16)</small>		
23 82 16 12-0001			Steam Heating Coils <small>(23 82 16 12)</small>		
			Note: Flanged construction.		
23 82 16 12-0002	EA		12" x 12" Steam Heating Coils, 1 Row Flanged Construction.....	2,101.19	132.44
			For 2 Row Coil, Add	683.03	
			For 4 Row Coil, Add	1,794.19	
23 82 16 12-0003	EA		12" x 24" Steam Heating Coils, 1 Row Flanged Construction.....	2,335.06	183.16
			For 2 Row Coil, Add	773.71	
			For 4 Row Coil, Add	2,025.41	
23 82 16 12-0004	EA		24" x 30" Steam Heating Coils, 1 Row Flanged Construction.....	3,083.87	328.27
			For 2 Row Coil, Add	1,056.22	
			For 4 Row Coil, Add	2,748.88	
23 82 16 12-0005	EA		24" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	3,892.92	470.57
			For 2 Row Coil, Add	1,355.73	
			For 4 Row Coil, Add	3,518.22	
23 82 16 12-0006	EA		30" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	4,343.33	563.56
			For 2 Row Coil, Add	1,528.42	
			For 4 Row Coil, Add	3,959.33	
23 82 16 12-0007	EA		30" x 60" Steam Heating Coils, 1 Row Flanged Construction.....	4,887.66	704.44
			For 2 Row Coil, Add	1,748.08	
			For 4 Row Coil, Add	4,515.96	
23 82 16 12-0008	EA		30" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	5,372.39	781.94
			For 2 Row Coil, Add	1,924.81	
			For 4 Row Coil, Add	4,971.05	
23 82 16 12-0009	EA		30" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	6,650.44	912.54
			For 2 Row Coil, Add	2,360.13	
			For 4 Row Coil, Add	6,105.10	
23 82 16 12-0010	EA		34" x 32" Steam Heating Coils, 1 Row Flanged Construction.....	2,871.36	393.93
			For 2 Row Coil, Add	1,019.00	
			For 4 Row Coil, Add	2,635.92	
23 82 16 12-0011	EA		34" x 48" Steam Heating Coils, 1 Row Flanged Construction.....	4,307.04	591.03
			For 2 Row Coil, Add	1,528.50	
			For 4 Row Coil, Add	3,953.87	
23 82 16 12-0012	EA		34" x 72" Steam Heating Coils, 1 Row Flanged Construction.....	6,457.56	884.93
			For 2 Row Coil, Add	2,291.26	
			For 4 Row Coil, Add	5,927.14	
23 82 16 12-0013	EA		34" x 84" Steam Heating Coils, 1 Row Flanged Construction.....	7,540.77	1,035.96
			For 2 Row Coil, Add	2,676.61	
			For 4 Row Coil, Add	6,923.53	
23 82 16 13			Refrigerant Air Coils <small>(23 82 16)</small>		
23 82 16 13-0001			Direct Expansion Cooling Coils <small>(23 82 16 13)</small>		
			Note: Flanged construction 16 gauge galvanized steel casing.		
23 82 16 13-0002			2 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0003	EA		12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,651.69	105.67
			For 10 Fins Per Inch, Add	28.80	
			For 12 Fins Per Inch, Add	71.99	
23 82 16 13-0004	EA		12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,170.15	145.11
			For 10 Fins Per Inch, Add	57.59	
			For 12 Fins Per Inch, Add	143.98	
23 82 16 13-0005	EA		24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,374.83	228.24
			For 10 Fins Per Inch, Add	78.41	
			For 12 Fins Per Inch, Add	196.02	
23 82 16 13-0006	EA		24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,288.42	328.27
			For 10 Fins Per Inch, Add	92.66	
			For 12 Fins Per Inch, Add	231.66	
23 82 16 13-0007	EA		30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,150.99	401.54
			For 10 Fins Per Inch, Add	106.92	
			For 12 Fins Per Inch, Add	267.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0008 EA 30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	6,887.79 118.32 295.81	486.07
23 82 16 13-0009 EA 30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	7,898.61 135.43 338.57	563.56
23 82 16 13-0010 EA 30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	9,897.45 171.66 429.16	657.11
23 82 16 13-0011 EA 34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	3,799.47 66.00 164.99	249.80
23 82 16 13-0012 EA 34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	4,925.18 81.49 203.72	425.34
23 82 16 13-0013 EA 34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	6,096.98 96.42 241.04	638.09
23 82 16 13-0014 EA 34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	6,678.93 103.86 259.64	743.05
 23 82 16 13-0015 4 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0016 EA 12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	2,738.38 48.90 122.24	146.52
23 82 16 13-0017 EA 12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	3,913.22 69.85 174.63	211.34
23 82 16 13-0018 EA 24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	5,337.56 92.66 231.66	352.23
23 82 16 13-0019 EA 24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	6,532.09 109.77 274.42	522.70
23 82 16 13-0020 EA 30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	7,553.36 125.45 313.63	641.05
23 82 16 13-0021 EA 30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	8,978.44 148.26 370.65	783.34
23 82 16 13-0022 EA 30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	10,004.32 162.52 406.29	939.73
23 82 16 13-0023 EA 30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	9,788.27 152.01 380.03	1,093.87
23 82 16 13-0024 EA 34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	6,147.22 104.06 260.15	472.12
23 82 16 13-0025 EA 34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	7,844.40 128.48 321.21	710.09
23 82 16 13-0026 EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	11,859.29 187.23 468.06	1,248.99
23 82 16 13-0027 EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	13,580.42 213.39 533.47	1,455.54
 23 82 16 13-0028 6 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0029 EA 12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	3,507.04 62.73 156.81	184.57
23 82 16 13-0030 EA 12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	4,045.17 69.85 174.63	276.14
23 82 16 13-0031 EA 24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	5,857.50 98.36 245.91	470.57
23 82 16 13-0032 EA 24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	7,467.60 121.17 302.94	704.44
23 82 16 13-0033 EA 30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	9,815.63 161.09 402.73	880.56
23 82 16 13-0034 EA 30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	11,148.66 179.62 449.06	1,083.44
23 82 16 13-0035 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	12,968.34 208.13 520.34	1,280.68

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0036 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,339.52	1,492.44
For 10 Fins Per Inch, Add	187.09	
For 12 Fins Per Inch, Add	467.73	
23 82 16 13-0037 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,693.74	645.13
For 10 Fins Per Inch, Add	128.07	
For 12 Fins Per Inch, Add	320.18	
23 82 16 13-0038 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	9,841.88	967.63
For 10 Fins Per Inch, Add	158.13	
For 12 Fins Per Inch, Add	395.33	
23 82 16 13-0039 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,242.08	1,443.55
For 10 Fins Per Inch, Add	187.10	
For 12 Fins Per Inch, Add	467.75	
23 82 16 13-0040 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,463.80	1,693.35
For 10 Fins Per Inch, Add	201.54	
For 12 Fins Per Inch, Add	503.85	
23 82 16 13-0041 8 Row Direct Expansion Cooling Coils (23 82 16 13-0001)		
23 82 16 13-0042 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,367.61	222.61
For 10 Fins Per Inch, Add	78.41	
For 12 Fins Per Inch, Add	196.02	
23 82 16 13-0043 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,249.11	343.77
For 10 Fins Per Inch, Add	91.24	
For 12 Fins Per Inch, Add	228.09	
23 82 16 13-0044 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,818.41	612.87
For 10 Fins Per Inch, Add	131.87	
For 12 Fins Per Inch, Add	329.66	
23 82 16 13-0045 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,360.71	939.73
For 10 Fins Per Inch, Add	169.64	
For 12 Fins Per Inch, Add	424.11	
23 82 16 13-0046 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	12,434.11	1,175.02
For 10 Fins Per Inch, Add	201.72	
For 12 Fins Per Inch, Add	504.30	
23 82 16 13-0047 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,436.25	1,408.90
For 10 Fins Per Inch, Add	232.37	
For 12 Fins Per Inch, Add	580.92	
23 82 16 13-0048 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	16,602.58	1,565.29
For 10 Fins Per Inch, Add	269.43	
For 12 Fins Per Inch, Add	673.59	
23 82 16 13-0049 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,155.06	1,815.65
For 10 Fins Per Inch, Add	210.48	
For 12 Fins Per Inch, Add	526.19	
23 82 16 13-0050 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,776.46	786.16
For 10 Fins Per Inch, Add	144.08	
For 12 Fins Per Inch, Add	360.20	
23 82 16 13-0051 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,258.84	1,181.93
For 10 Fins Per Inch, Add	177.90	
For 12 Fins Per Inch, Add	444.75	
23 82 16 13-0052 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	14,082.18	1,778.87
For 10 Fins Per Inch, Add	210.49	
For 12 Fins Per Inch, Add	526.22	
23 82 16 13-0053 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	15,480.56	2,071.92
For 10 Fins Per Inch, Add	226.74	
For 12 Fins Per Inch, Add	566.84	
23 82 16 14 Electric-Resistance Air Coils (23 82 16)		
23 82 16 14-0001 Standard Electric Slip-In Blast Coil Heater (23 82 16 14)		
23 82 16 14-0002 Electric Slip-In Blast Coil Heater With Open Coil Element (23 82 16 14-0001)		
23 82 16 14-0003 EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	487.12	99.38
23 82 16 14-0004 EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	503.66	107.12
23 82 16 14-0005 EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	523.21	117.44
23 82 16 14-0006 EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	529.79	121.32
23 82 16 14-0007 EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	546.68	129.06
23 82 16 14-0008 EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	566.11	139.39
23 82 16 14-0009 EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	649.60	156.16
23 82 16 14-0010 EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	665.34	163.90
23 82 16 14-0011 EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	678.25	169.07
23 82 16 14-0012 EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	697.11	179.40
23 82 16 14-0013 EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	759.41	189.72
23 82 16 14-0014 EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	796.15	207.78
23 82 16 14-0015 EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	832.67	225.86
23 82 16 14-0016 EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	869.79	243.92
23 82 16 14-0017 EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,152.24	304.72
23 82 16 14-0018 EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,959.58	362.66
23 82 16 14-0019 EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,160.67	415.57
23 82 16 14-0020 EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,540.83	460.74
23 82 16 14-0021 EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,673.07	500.75
23 82 16 14-0022 EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,929.09	549.79
23 82 16 14-0023 EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,563.62	587.22
23 82 16 14-0024 EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,909.27	631.10
23 82 16 14-0025 EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	4,713.04	681.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 14-0026 EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	5,297.48	740.80
23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element <small>(23 82 16 14-0001)</small>		
23 82 16 14-0028 EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	834.93	141.96
23 82 16 14-0029 EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	863.64	154.87
23 82 16 14-0030 EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	872.94	154.87
23 82 16 14-0031 EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	944.73	170.36
23 82 16 14-0032 EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	983.78	170.36
23 82 16 14-0033 EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,004.57	170.36
23 82 16 14-0034 EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,058.92	189.72
23 82 16 14-0035 EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,110.70	212.95
23 82 16 14-0036 EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,131.48	212.95
23 82 16 14-0037 EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,275.36	243.92
23 82 16 14-0038 EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,607.52	243.92
23 82 16 14-0039 EA 25 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,709.46	264.57
23 82 16 14-0040 EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,001.71	283.93
23 82 16 14-0041 EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,359.16	283.93
23 82 16 14-0042 EA 45 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,570.43	296.84
23 82 16 14-0043 EA 50 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,694.36	296.84
23 82 19 Fan Coil Units <small>(23 82)</small>		
23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units <small>(23 82 19)</small>		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports.		
23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil <small>(23 82 19 00-0001)</small>		
23 82 19 00-0003 EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,104.79	228.24
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0004 EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,321.87	266.29
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0005 EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,572.71	300.10
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0006 EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,983.34	343.77
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0007 EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,341.46	360.68
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0008 EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,528.54	381.81
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0009 EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	5,492.65	414.22
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil <small>(23 82 19 00-0001)</small>		
23 82 19 00-0011 EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,180.98	228.24
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0012 EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,435.74	266.29
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0013 EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	1,700.92	300.10
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,198.59	343.77
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,592.59	362.09
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,887.31	381.81
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,174.29	414.22
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0018 Floor Mounted Vertical Fan Coil Units <small>(23 82 19)</small>		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.		
23 82 19 00-0019 Vertical Fan Coil Units With Electric Heating Coil <small>(23 82 19 00-0018)</small>		
23 82 19 00-0020 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,033.04	226.83
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-259.51	
<i>For Thru-Wall Sleeve, Add</i>	145.90	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0021 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,325.46	266.29
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-295.65	
<i>For Thru-Wall Sleeve, Add</i>	161.33	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0022 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,752.09	300.10
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-352.86	
<i>For Thru-Wall Sleeve, Add</i>	174.91	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0023 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,162.72	343.77
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-405.68	
<i>For Thru-Wall Sleeve, Add</i>	192.45	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0024	EA		800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,556.72	362.09
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-461.26	
			<i>For Thru-Wall Sleeve, Add</i>	199.50	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0025	EA		1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,528.54	381.81
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-603.13	
			<i>For Thru-Wall Sleeve, Add</i>	207.31	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0026	EA		1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,313.27	414.22
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-714.11	
			<i>For Thru-Wall Sleeve, Add</i>	220.75	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0027			Vertical Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0018)		
23 82 19 00-0028	EA		200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	2,248.29	226.83
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-291.79	
			<i>For Thru-Wall Sleeve, Add</i>	145.90	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-57.72	
23 82 19 00-0029	EA		300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	2,540.72	266.29
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-327.94	
			<i>For Thru-Wall Sleeve, Add</i>	161.33	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-61.58	
23 82 19 00-0030	EA		400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	3,110.85	300.10
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-406.67	
			<i>For Thru-Wall Sleeve, Add</i>	174.91	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-64.98	
23 82 19 00-0031	EA		600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	3,557.35	343.77
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-464.88	
			<i>For Thru-Wall Sleeve, Add</i>	192.45	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-69.36	
23 82 19 00-0032	EA		800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	3,951.35	362.09
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-520.45	
			<i>For Thru-Wall Sleeve, Add</i>	199.50	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-119.19	
23 82 19 00-0033	EA		1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	4,707.92	381.81
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-630.03	
			<i>For Thru-Wall Sleeve, Add</i>	207.31	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-122.12	
23 82 19 00-0034	EA		1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet	5,492.65	414.22
			<i>For Fan Coil Units Without Cabinet, Deduct</i>	-741.02	
			<i>For Thru-Wall Sleeve, Add</i>	220.75	
			<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.16	
23 82 19 00-0035			Removal And Reinstallation Of Fan Coil Units (23 82 19)		
			Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0036	EA		Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical.....	599.02	
23 82 29			Radiators (23 82)		
23 82 29 00-0001			Demolish Cast Iron Radiators (23 82 29)		
23 82 29 00-0002	LF		Demolish Cast Iron Radiator	42.25	
23 82 29 00-0003	EA		Cap Radiator.....	57.08	
23 82 29 00-0004			Cast Iron Radiator (23 82 29)		
23 82 29 00-0005	EA		19" High Cast Iron Radiator Section, Free Standing	62.71	
			<i>For Wall Support Bracket, Add</i>	31.53	
23 82 29 00-0006	EA		25" High Cast Iron Radiator Section, Free Standing	88.63	
			<i>For Wall Support Bracket, Add</i>	33.36	
23 82 29 00-0007	EA		30" High Cast Iron Radiator Section, Free Standing	103.02	
23 82 29 00-0008	EA		36" High Cast Iron Radiator Section, Free Standing	129.56	
23 82 29 00-0009	EA		20" High Cast Iron Radiator Section, Recessed With Grille	87.14	
23 82 29 00-0010			Radiator Covers (23 82 29)		
			Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011	SF		14 Gauge Stainless Steel Radiator Cover	110.58	7.01
23 82 29 00-0012	SF		Primed And Painted, Galvanized Steel Radiator Cover	70.35	7.01
23 82 29 00-0013			Radiator Shields (23 82 29)		
23 82 29 00-0014	SF		Stainless Steel Radiator Shield.....	57.60	7.01
23 82 29 00-0015	SF		Primed And Painted, Galvanized Steel Radiator Shield.....	47.20	7.01
23 82 29 00-0016			Removal And Reinstallation Of Radiator (23 82 29)		
			Note: Includes storage and cleaning.		
23 82 29 00-0017	LF		Removal And Reinstallation Of Cast Iron Radiator	105.67	
23 82 29 00-0018	LF		Removal And Reinstallation Of Electric Radiator	70.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 Convectors (23 82)		
23 82 33 00-0001 Multi-Fin Convectors For Two-Pipe System (23 82 33)		
Note: Complete with 6-1/4" deep cabinet enclosure.		
23 82 33 00-0002 20" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)		
23 82 33 00-0003 EA 20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	522.60	154.98
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	76.45	
For Snap-On Inlet Grille, Add	56.96	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	100.72	
23 82 33 00-0004 EA 20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	607.89	169.07
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	82.85	
For Snap-On Inlet Grille, Add	61.23	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	123.11	
23 82 33 00-0005 EA 20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	702.55	200.06
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	96.86	
For Snap-On Inlet Grille, Add	70.57	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	139.89	
23 82 33 00-0006 EA 20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	837.24	232.46
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	111.66	
For Snap-On Inlet Grille, Add	80.44	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	169.77	
23 82 33 00-0007 EA 20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	999.41	278.96
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	132.78	
For Snap-On Inlet Grille, Add	94.52	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	201.89	
23 82 33 00-0008 EA 20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,120.27	306.86
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	145.44	
For Snap-On Inlet Grille, Add	102.96	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	229.41	
23 82 33 00-0009 EA 20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,310.61	371.94
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	175.01	
For Snap-On Inlet Grille, Add	122.67	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	261.53	
23 82 33 00-0010 EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,424.50	395.19
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	185.58	
For Snap-On Inlet Grille, Add	129.72	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	289.06	
23 82 33 00-0011 EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,560.43	441.69
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	206.70	
For Snap-On Inlet Grille, Add	143.80	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	312.00	
23 82 33 00-0012 EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,722.71	488.19
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	227.85	
For Snap-On Inlet Grille, Add	157.90	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	344.12	
23 82 33 00-0013 EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,858.65	534.67
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	248.97	
For Snap-On Inlet Grille, Add	171.98	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	367.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0014			26" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		
23 82 33 00-0015	EA		26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	625.51	203.86
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	97.73	
			<i>For Snap-On Inlet Grille, Add</i>	71.15	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	111.92	
23 82 33 00-0016	EA		26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	732.96	236.84
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	112.52	
			<i>For Snap-On Inlet Grille, Add</i>	81.01	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	132.27	
23 82 33 00-0017	EA		26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	881.93	278.12
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	131.05	
			<i>For Snap-On Inlet Grille, Add</i>	93.37	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	162.79	
23 82 33 00-0018	EA		26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,024.70	310.10
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	145.40	
			<i>For Snap-On Inlet Grille, Add</i>	102.94	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	196.01	
23 82 33 00-0019	EA		26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,188.56	348.71
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	162.78	
			<i>For Snap-On Inlet Grille, Add</i>	114.52	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	233.09	
23 82 33 00-0020	EA		26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,323.06	377.73
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	175.88	
			<i>For Snap-On Inlet Grille, Add</i>	123.26	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	264.87	
23 82 33 00-0021	EA		26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,509.02	430.42
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	199.89	
			<i>For Snap-On Inlet Grille, Add</i>	139.26	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	301.96	
23 82 33 00-0022	EA		26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,638.80	456.77
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	211.58	
			<i>For Snap-On Inlet Grille, Add</i>	147.05	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	333.74	
23 82 33 00-0023	EA		26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,775.46	498.04
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	229.87	
			<i>For Snap-On Inlet Grille, Add</i>	159.25	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	360.23	
23 82 33 00-0024	EA		26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,943.02	538.48
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	248.36	
			<i>For Snap-On Inlet Grille, Add</i>	171.57	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	397.31	
23 82 33 00-0025	EA		26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,074.15	575.54
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	264.99	
			<i>For Snap-On Inlet Grille, Add</i>	182.66	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	423.80	
23 82 33 00-0026			32" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Decentralized Unitary HVAC Equipment	23 80
Convection Heating and Cooling Units	23 82

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0027 EA 32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	727.24	247.97
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	118.65	
For Snap-On Inlet Grille, Add	85.10	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	123.11	
23 82 33 00-0028 EA 32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	870.17	300.10
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	142.35	
For Snap-On Inlet Grille, Add	100.90	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	145.49	
23 82 33 00-0029 EA 32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,042.87	350.82
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	165.38	
For Snap-On Inlet Grille, Add	116.25	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	179.06	
23 82 33 00-0030 EA 32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,193.62	381.25
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	179.28	
For Snap-On Inlet Grille, Add	125.52	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	215.60	
23 82 33 00-0031 EA 32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,356.18	411.96
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	193.09	
For Snap-On Inlet Grille, Add	134.72	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	256.40	
23 82 33 00-0032 EA 32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,501.44	441.69
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	206.70	
For Snap-On Inlet Grille, Add	143.80	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	291.36	
23 82 33 00-0033 EA 32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,674.63	478.88
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	223.69	
For Snap-On Inlet Grille, Add	155.13	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	332.15	
23 82 33 00-0034 EA 32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,821.31	509.59
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	237.73	
For Snap-On Inlet Grille, Add	164.48	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	367.11	
23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,955.28	543.98
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	252.95	
For Snap-On Inlet Grille, Add	174.63	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	396.25	
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,122.46	576.52
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	268.14	
For Snap-On Inlet Grille, Add	184.76	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	437.03	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	2,247.26	604.42
For Knob Operated Damper, Add	15.00	
For Metal Trim Strips, Add	280.60	
For Snap-On Inlet Grille, Add	193.07	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	466.17	
23 82 33 00-0038 Electric Convectors, Floor Standing Units <small>(23 82 33)</small>		
23 82 33 00-0039 4" Deep Electric Convectors <small>(23 82 33 00-0038)</small>		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	565.49	138.57
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units	619.24	138.57

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0042 6" Deep Electric Convectors <small>(23 82 33 00-0038)</small>		
23 82 33 00-0043 EA 38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units.....	644.04	138.57
23 82 33 00-0044 EA 50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units.....	726.72	138.57
23 82 33 00-0045 EA 62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units.....	799.07	138.57
23 82 33 00-0046 EA 74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units.....	912.76	138.57
23 82 36 Finned-Tube Radiation Heaters <small>(23 82)</small>		
23 82 36 00-0001 Electric Baseboard Heating <small>(23 82 36)</small>		
Note: Includes 24 gauge steel enclosure and heating element		
23 82 36 00-0002 Electric Wall Heating 10" Enclosure <small>(23 82 36 00-0001)</small>		
23 82 36 00-0003 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT.....	153.88	76.99
23 82 36 00-0004 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT.....	156.36	76.99
23 82 36 00-0005 Electric Wall Heating 16" Enclosure <small>(23 82 36 00-0001)</small>		
23 82 36 00-0006 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT.....	178.69	76.99
23 82 36 00-0007 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT.....	184.89	76.99
23 82 36 00-0008 Finned Tube Baseboard Units <small>(23 82 36)</small>		
Note: Complete with steel enclosure. Single heating element.		
23 82 36 00-0009 3/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small>		
23 82 36 00-0010 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	377.74	54.95
For 90 Degree Corner, Add	63.17	
For Valve Enclosure, Add	63.17	
For Filler Piece, Add	56.17	
For End Cap, Add	42.56	
For Copper Tube With Aluminum Fins, Add	6.16	
23 82 36 00-0011 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	488.07	83.12
For 90 Degree Corner, Add	74.04	
For Valve Enclosure, Add	74.04	
For Filler Piece, Add	67.04	
For End Cap, Add	49.63	
For Copper Tube With Aluminum Fins, Add	9.23	
23 82 36 00-0012 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	576.05	109.89
For 90 Degree Corner, Add	80.45	
For Valve Enclosure, Add	80.45	
For Filler Piece, Add	73.45	
For End Cap, Add	53.79	
For Copper Tube With Aluminum Fins, Add	12.31	
23 82 36 00-0013 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	717.88	153.86
For 90 Degree Corner, Add	97.91	
For Valve Enclosure, Add	97.91	
For Filler Piece, Add	90.91	
For End Cap, Add	65.14	
For Copper Tube With Aluminum Fins, Add	15.31	
23 82 36 00-0014 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	859.63	184.85
For 90 Degree Corner, Add	115.66	
For Valve Enclosure, Add	115.66	
For Filler Piece, Add	108.66	
For End Cap, Add	76.68	
For Copper Tube With Aluminum Fins, Add	18.22	
23 82 36 00-0015 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	961.14	197.24
For 90 Degree Corner, Add	122.71	
For Valve Enclosure, Add	122.71	
For Filler Piece, Add	115.71	
For End Cap, Add	81.26	
For Copper Tube With Aluminum Fins, Add	21.87	
23 82 36 00-0016 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,060.09	217.96
For 90 Degree Corner, Add	134.55	
For Valve Enclosure, Add	134.55	
For Filler Piece, Add	127.55	
For End Cap, Add	88.96	
For Copper Tube With Aluminum Fins, Add	24.05	
23 82 36 00-0017 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,208.04	246.56
For 90 Degree Corner, Add	150.89	
For Valve Enclosure, Add	150.89	
For Filler Piece, Add	143.89	
For End Cap, Add	99.58	
For Copper Tube With Aluminum Fins, Add	27.70	
23 82 36 00-0018 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,331.58	271.21
For 90 Degree Corner, Add	164.99	
For Valve Enclosure, Add	164.99	
For Filler Piece, Add	157.99	
For End Cap, Add	108.75	
For Copper Tube With Aluminum Fins, Add	30.61	
23 82 36 00-0019 1" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small>		



Heating, Ventilating, and Air-Conditioning (HVAC)	23
Decentralized Unitary HVAC Equipment	23 80
Convection Heating and Cooling Units	23 82

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0020	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	425.71	54.95
			For 90 Degree Corner, Add	63.17	
			For Valve Enclosure, Add	63.17	
			For Filler Piece, Add	56.17	
			For End Cap, Add	42.56	
			For Copper Tube With Aluminum Fins, Add	8.79	
23 82 36 00-0021	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	560.03	83.12
			For 90 Degree Corner, Add	74.04	
			For Valve Enclosure, Add	74.04	
			For Filler Piece, Add	67.04	
			For End Cap, Add	49.63	
			For Copper Tube With Aluminum Fins, Add	13.19	
23 82 36 00-0022	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	671.99	109.89
			For 90 Degree Corner, Add	80.45	
			For Valve Enclosure, Add	80.45	
			For Filler Piece, Add	73.45	
			For End Cap, Add	53.79	
			For Copper Tube With Aluminum Fins, Add	17.59	
23 82 36 00-0023	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	837.32	153.86
			For 90 Degree Corner, Add	97.95	
			For Valve Enclosure, Add	97.95	
			For Filler Piece, Add	90.95	
			For End Cap, Add	65.16	
			For Copper Tube With Aluminum Fins, Add	21.87	
23 82 36 00-0024	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,001.39	184.85
			For 90 Degree Corner, Add	115.61	
			For Valve Enclosure, Add	115.61	
			For Filler Piece, Add	108.61	
			For End Cap, Add	76.65	
			For Copper Tube With Aluminum Fins, Add	26.03	
23 82 36 00-0025	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,131.54	197.24
			For 90 Degree Corner, Add	122.71	
			For Valve Enclosure, Add	122.71	
			For Filler Piece, Add	115.71	
			For End Cap, Add	81.26	
			For Copper Tube With Aluminum Fins, Add	31.24	
23 82 36 00-0026	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,247.08	217.96
			For 90 Degree Corner, Add	134.46	
			For Valve Enclosure, Add	134.46	
			For Filler Piece, Add	127.46	
			For End Cap, Add	88.90	
			For Copper Tube With Aluminum Fins, Add	34.36	
23 82 36 00-0027	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,423.89	246.56
			For 90 Degree Corner, Add	150.89	
			For Valve Enclosure, Add	150.89	
			For Filler Piece, Add	143.89	
			For End Cap, Add	99.58	
			For Copper Tube With Aluminum Fins, Add	39.57	
23 82 36 00-0028	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,569.30	271.21
			For 90 Degree Corner, Add	164.82	
			For Valve Enclosure, Add	164.82	
			For Filler Piece, Add	157.82	
			For End Cap, Add	108.64	
			For Copper Tube With Aluminum Fins, Add	43.73	
23 82 36 00-0029 1-1/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small>					
23 82 36 00-0030	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	473.67	54.95
			For 90 Degree Corner, Add	63.17	
			For Valve Enclosure, Add	63.17	
			For Filler Piece, Add	56.17	
			For End Cap, Add	42.56	
			For Copper Tube With Aluminum Fins, Add	11.43	
23 82 36 00-0031	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	631.97	83.12
			For 90 Degree Corner, Add	74.04	
			For Valve Enclosure, Add	74.04	
			For Filler Piece, Add	67.04	
			For End Cap, Add	49.63	
			For Copper Tube With Aluminum Fins, Add	17.15	
23 82 36 00-0032	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	767.91	109.89
			For 90 Degree Corner, Add	80.45	
			For Valve Enclosure, Add	80.45	
			For Filler Piece, Add	73.45	
			For End Cap, Add	53.79	
			For Copper Tube With Aluminum Fins, Add	22.86	
23 82 36 00-0033	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	956.60	153.86
			For 90 Degree Corner, Add	97.95	
			For Valve Enclosure, Add	97.95	
			For Filler Piece, Add	90.95	
			For End Cap, Add	65.16	
			For Copper Tube With Aluminum Fins, Add	28.43	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0034	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,143.39 115.61 115.61 108.61 76.65 33.84	184.85
23 82 36 00-0035	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,301.94 122.71 122.71 115.71 81.26 40.61	197.24
23 82 36 00-0036	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,434.52 134.46 134.46 127.46 88.90 44.67	217.96
23 82 36 00-0037	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,639.72 150.89 150.89 143.89 99.58 51.44	246.56
23 82 36 00-0038	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element <i>For 90 Degree Corner, Add</i> <i>For Valve Enclosure, Add</i> <i>For Filler Piece, Add</i> <i>For End Cap, Add</i> <i>For Copper Tube With Aluminum Fins, Add</i>	1,807.85 164.82 164.82 157.82 108.64 56.86	271.21
23 82 39 Unit Heaters (23 82)					
23 82 39 13 Cabinet Unit Heaters (23 82 39)					
23 82 39 13-0001 Electric Cabinet Unit Heaters (23 82 39 13) Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.					
23 82 39 13-0002 Electric Cabinet Unit Heaters, 35" Cabinet Length (23 82 39 13-0001)					
23 82 39 13-0003	EA		2 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,609.35	174.97
23 82 39 13-0004	EA		3 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,629.18	174.97
23 82 39 13-0005	EA		4 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,649.01	174.97
23 82 39 13-0006	EA		5 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,668.83	174.97
23 82 39 13-0007	EA		6 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,688.66	174.97
23 82 39 13-0008	EA		7 KW, 250 CFM, 35" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,708.49	174.97
23 82 39 13-0009	EA		8 KW, 250 CFM, 35" Electric Cabinet Unit Heater	2,729.11	174.97
23 82 39 13-0010	EA		For Ceiling Installation of 35" Cabinet Unit Heater, Add.....	233.75	116.18
23 82 39 13-0011 Electric Cabinet Unit Heaters, 45" Cabinet Length (23 82 39 13-0001)					
23 82 39 13-0012	EA		4 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,786.40	209.95
23 82 39 13-0013	EA		6 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,826.06	209.95
23 82 39 13-0014	EA		8 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,865.71	209.95
23 82 39 13-0015	EA		10 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,905.37	209.95
23 82 39 13-0016	EA		12 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,945.01	209.95
23 82 39 13-0017	EA		14 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	2,984.68	209.95
23 82 39 13-0018	EA		16 KW, 500 CFM, 45" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,024.32	209.95
23 82 39 13-0019	EA		For Ceiling Installation of 45" Cabinet Unit Heater, Add.....	279.95	139.97
23 82 39 13-0020 Electric Cabinet Unit Heaters, 58" Cabinet Length (23 82 39 13-0001)					
23 82 39 13-0021	EA		6 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,507.68	279.95
23 82 39 13-0022	EA		8 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,547.33	279.95
23 82 39 13-0023	EA		10 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,586.99	279.95
23 82 39 13-0024	EA		12 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,626.63	279.95
23 82 39 13-0025	EA		14 KW, 750 CFM, 58" Electric Cabinet Unit Heater Note: Wall or floor mounted.	3,666.29	279.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 13-0026 EA 16 KW, 750 CFM, 58" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	3,705.94	279.95
23 82 39 13-0027 EA For Ceiling Installation of 58" Cabinet Unit Heater, Add	349.93	174.97
23 82 39 13-0028 Electric Cabinet Unit Heaters, 68" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0029 EA 6 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,149.67	349.93
23 82 39 13-0030 EA 9 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,209.14	349.93
23 82 39 13-0031 EA 12 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,268.62	349.93
23 82 39 13-0032 EA 15 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,328.09	349.93
23 82 39 13-0033 EA 18 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,387.58	349.93
23 82 39 13-0034 EA 21 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,447.06	349.93
23 82 39 13-0035 EA 24 KW, 750 CFM, 68" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,506.53	349.93
23 82 39 13-0036 EA For Ceiling Installation of 68" Cabinet Unit Heater, Add	467.51	233.75
23 82 39 13-0037 Electric Cabinet Unit Heaters, 78" Cabinet Length (23 82 39 13-0001)		
23 82 39 13-0038 EA 8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,870.95	419.92
23 82 39 13-0039 EA 12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	4,950.26	419.92
23 82 39 13-0040 EA 16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,029.56	419.92
23 82 39 13-0041 EA 20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,108.87	419.92
23 82 39 13-0042 EA 24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,188.17	419.92
23 82 39 13-0043 EA 28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,267.48	419.92
23 82 39 13-0044 EA 32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater..... Note: Wall or floor mounted.	5,346.79	419.92
23 82 39 13-0045 EA For Ceiling Installation of 78" Cabinet Unit Heater, Add	559.88	279.95
23 82 39 13-0046 Removal and Reinstallation of Cabinet Unit Heaters (23 82 39 13) Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 13-0047 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall	387.45	
23 82 39 13-0048 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall.....	669.24	
23 82 39 13-0049 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling.....	798.85	
23 82 39 13-0050 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling	1,080.62	
23 82 39 16 Propeller Unit Heaters (23 82 39)		
23 82 39 16-0001 Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16) Note: For use with either steam or heating hot water. Heating output capacities for both are listed.		
23 82 39 16-0002 Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0003 EA 18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	842.13	140.89
23 82 39 16-0004 EA 24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	843.66	140.89
23 82 39 16-0005 EA 36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	931.51	140.89
23 82 39 16-0006 EA 48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,163.85	211.34
23 82 39 16-0007 EA 60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,208.80	211.34
23 82 39 16-0008 EA 72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,275.73	211.34
23 82 39 16-0009 EA 84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,548.38	281.78
23 82 39 16-0010 EA 96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,683.23	281.78
23 82 39 16-0011 EA 108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,769.04	281.78
23 82 39 16-0012 EA 120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	1,838.51	281.78
23 82 39 16-0013 EA 132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,095.85	352.23
23 82 39 16-0014 EA 144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,119.36	352.23
23 82 39 16-0015 EA 156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,141.83	352.23
23 82 39 16-0016 EA 180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,310.24	422.67
23 82 39 16-0017 EA 204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,485.95	422.67
23 82 39 16-0018 EA 240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	2,842.59	493.12
23 82 39 16-0019 EA 280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,479.03	493.12
23 82 39 16-0020 EA 300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	3,724.01	563.56
23 82 39 16-0021 EA 360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt	4,377.83	563.56
23 82 39 16-0022 EA Fan Guard For Fan Propelled Steam Unit Heater, Horizontal..... Note: Required only for unit heaters located within 7' of a working surface.	226.23	35.22
23 82 39 16-0023 Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)		
23 82 39 16-0024 EA 41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,224.14	140.89
23 82 39 16-0025 EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,272.66	211.34

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating and Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 16-0026	EA		80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,361.03	211.34
23 82 39 16-0027	EA		101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,686.30	281.78
23 82 39 16-0028	EA		124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	1,773.13	281.78
23 82 39 16-0029	EA		152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,152.91	422.67
23 82 39 16-0030	EA		173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,285.72	422.67
23 82 39 16-0031	EA		210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,397.08	422.67
23 82 39 16-0032	EA		249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,690.36	493.12
23 82 39 16-0033	EA		283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	2,822.16	493.12
23 82 39 16-0034	EA		333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,088.78	493.12
23 82 39 16-0035	EA		386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	3,613.59	634.00
23 82 39 16-0036	EA		496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,500.33	634.00
23 82 39 16-0037	EA		585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	4,772.08	634.00
23 82 39 16-0038	EA		705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt.....	5,421.72	704.44
23 82 39 16-0039	EA		Fan Guard For Fan Propelled Steam Unit Heater, Vertical.....	301.83	35.22
Note: Required only for unit heaters located within 7' of a working surface.					
23 82 39 16-0040	Removal and Reinstallation of Propeller Unit Heaters ^(23 82 39 16)				
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.					
23 82 39 16-0041	EA		Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical.....	845.33	
23 82 39 16-0042	EA		Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical.....	1,127.12	
23 82 39 19	Wall and Ceiling Unit Heaters ^(23 82 39)				
23 82 39 19-0001	Electric Unit Heaters ^(23 82 39 19)				
Note: May be mounted both vertically and horizontally.					
23 82 39 19-0002	EA		3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt.....	809.21	139.97
23 82 39 19-0003	EA		5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt.....	809.21	139.97
23 82 39 19-0004	EA		7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt.....	1,078.44	174.97
23 82 39 19-0005	EA		10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt.....	1,241.99	209.95
23 82 39 19-0006	EA		15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt.....	1,797.78	279.95
23 82 39 19-0007	EA		20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt.....	2,587.09	349.93
23 82 39 19-0008	EA		30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	3,536.34	419.92
23 82 39 19-0009	EA		50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt.....	5,101.44	489.90
23 82 39 19-0010	EA		3 KW, 350 CFM Electric Unit Heater - 480 Volt.....	981.27	139.97
23 82 39 19-0011	EA		5 KW, 350 CFM Electric Unit Heater - 480 Volt.....	947.68	139.97
23 82 39 19-0012	EA		7.5 KW, 650 CFM Electric Unit Heater - 480 Volt.....	1,127.61	174.97
23 82 39 19-0013	EA		10 KW, 650 CFM Electric Unit Heater - 480 Volt.....	1,305.96	209.95
23 82 39 19-0014	EA		15 KW, 910 CFM Electric Unit Heater - 480 Volt.....	1,925.73	279.95
23 82 39 19-0015	Electric Ceiling and Wall Heaters ^(23 82 39 19)				
Note: The "r" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.					
23 82 39 19-0016	EA		1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater.....	395.25	87.48
23 82 39 19-0017	EA		1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater.....	460.39	97.98
23 82 39 19-0018	EA		3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater.....	694.02	97.98
23 82 39 19-0019	EA		1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater.....	443.23	87.48
23 82 39 19-0020	EA		1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater.....	536.12	97.98
23 82 39 19-0021	EA		3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater.....	782.97	97.98
23 82 39 19-0022	EA		1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater.....	583.12	115.47
23 82 39 19-0023	EA		3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater.....	1,043.27	122.47
23 82 39 19-0024	EA		4,800/3,600 Watt Recessed Electric Ceiling Heater.....	1,166.74	122.47
23 82 39 19-0025	EA		4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater.....	1,348.35	129.48
23 82 39 19-0026	EA		5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater.....	1,456.76	129.48
23 82 39 19-0027	EA		1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater.....	647.25	115.47
23 82 39 19-0028	EA		3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater.....	1,144.29	122.47
23 82 39 19-0029	EA		4,800/3,600 Watt Surface Mounted Electric Ceiling Heater.....	1,267.76	122.47
23 82 39 19-0030	EA		Selectable Wattage (500 Or 750 Or 1000 Or 1,250 Or 1,500 Or 1,750 Or 2,250 Watt), 240 Volt, Surface Mounted, Electric Wall Heater (Markel Series 305 - Model H30522T2DWB).....	580.04	87.48
23 82 39 19-0031	Removal And Reinstallation Of Electric Unit Heaters ^(23 82 39 19)				
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.					
23 82 39 19-0032	EA		Removal And Reinstallation Of Up To 15KW Electric Unit Heater.....	507.24	
23 82 39 19-0033	EA		Removal And Reinstallation Of >15 KW Electric Unit Heater.....	1,042.70	
23 83	Radiant Heating Units ^(23 80)				
23 83 13	Radiant-Heating Electric Cables ^(23 83)				
23 83 13 13	Radiant-Heating Electric Cables ^(23 83 13)				
23 83 13 13-0001	Self Regulating Heating Cable ^(23 83 13 13)				
23 83 13 13-0002	LF		3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable.....	8.77	0.96
Note: Tinned copper braid, at 50 Degrees F.					
23 83 13 13-0003	LF		5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable.....	9.33	0.96
Note: Tinned copper braid, at 50 degrees F.					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 83 13 13-0004 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	9.73	0.96
23 83 13 13-0005 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	8.77	0.96
23 83 13 13-0006 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	10.30	0.96
23 83 13 13-0007 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable Note: Tinned copper braid, at 50 degrees F.	10.87	0.96
23 83 13 13-0008 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 Degrees F.	10.86	0.96
23 83 13 13-0009 LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	11.12	0.96
23 83 13 13-0010 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	11.38	0.96
23 83 13 13-0011 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	10.86	0.96
23 83 13 13-0012 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	11.12	0.96
23 83 13 13-0013 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions Note: Tinned copper braid, at 50 degrees F.	11.38	0.96
23 83 13 13-0014 LF 3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 Degrees F.	13.48	0.96
23 83 13 13-0015 LF 5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 degrees F.	14.01	0.96
23 83 13 13-0016 LF 8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 degrees F.	14.27	0.96
23 83 13 13-0017 LF 3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 degrees F.	13.48	0.96
23 83 13 13-0018 LF 5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 degrees F.	14.01	0.96
23 83 13 13-0019 LF 8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments Note: Tinned copper braid, at 50 degrees F.	14.27	0.96
23 83 13 13-0020 EA Power Connection Kit With Pre-set Thermostat For Self Regulating Low Temperature Heating Cable	303.81	75.37
23 83 13 13-0021 EA Splice And Tee Kit For Self Regulating Low Temperature Heating Cable	303.81	75.37
23 83 13 13-0022 EA End Seal Kit For Self Regulating Low Temperature Heating Cable	180.49	13.71
23 83 13 13-0023 EA Ambient Air Sensing Thermostat For Self Regulating Low Temperature Heating Cable	487.84	34.26
23 83 13 13-0024 EA Mechanical Or Electrical Line Sensing Thermostat For Self Regulating Low Temperature Heating Cable	535.47	34.26

23 84 Humidity Control Equipment (23 80)

23 84 13 Humidifiers (23 84)

23 84 13 16 Wetted-Element Humidifiers (23 84 13)

23 84 13 16-0001 Electric Steam Humidifiers, Self-Steam Producing (23 84 13 16)

Note: Electronic modulating duct or air handling unit installation 208V-108V with 12"-72" manifolds included.

23 84 13 16-0002	EA 1-96 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	10,724.62	580.47
23 84 13 16-0003	EA 20-168 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	13,526.55	581.87

23 84 13 23 Direct-Steam-Injection Humidifiers (23 84 13)

23 84 13 23-0001 Steam Type Pneumatically Controlled (23 84 13 23)

Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.

23 84 13 23-0002	EA 3-191 LB/Hour Steam Humidifier, 24" Manifold, Pneumatic Controls	1,860.21	371.94
	<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
	<i>For Each Additional Manifold, Add</i>	<i>576.85</i>	
23 84 13 23-0003	EA 3-191 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	1,860.21	371.94
	<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
	<i>For Each Additional Manifold, Add</i>	<i>576.85</i>	
23 84 13 23-0004	EA 65-334 LB/Hour Steam Humidifier, 36" Manifold, Pneumatic Controls	2,597.41	371.94
	<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
	<i>For Each Additional Manifold, Add</i>	<i>798.01</i>	
23 84 13 23-0005	EA 65-334 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	2,738.29	464.94
	<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
	<i>For Each Additional Manifold, Add</i>	<i>844.97</i>	
23 84 13 23-0006	EA 100-690 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls	3,809.56	371.94
	<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
	<i>For Each Additional Manifold, Add</i>	<i>1,161.65</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 84 Humidity Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 84 13 23-0007	EA		100-690 LB/Hour Steam Humidifier, 84" Manifold, Pneumatic Controls	3,950.44	464.94
			<i>For Electrically Controlled Unit, Add</i>	700.00	
			<i>For Each Additional Manifold, Add</i>	1,208.61	
23 84 13 23-0008	EA		220-2,000 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls	5,844.42	464.94
			<i>For Electrically Controlled Unit, Add</i>	700.00	
			<i>For Each Additional Manifold, Add</i>	1,776.81	
23 84 13 23-0009	EA		220-2,000 LB/Hour Steam Humidifier, 144" Manifold, Pneumatic Controls	6,020.54	581.87
			<i>For Electrically Controlled Unit, Add</i>	700.00	
			<i>For Each Additional Manifold, Add</i>	1,835.51	
23 84 13 29 Self-Contained Steam Humidifiers (23 84 13)					
23 84 13 29-0001			Residential Humidifiers (23 84 13 29)		
			Note: Includes solenoid valve and flow through water supply.		
23 84 13 29-0002	EA		Duct Or Furnace Mounted Humidifier, Residential Type	573.16	70.45
23 84 16 Mechanical Dehumidification Units (23 84)					
23 84 16 16 Indoor, Mechanical Dehumidification Units (23 84 16)					
23 84 16 16-0001			Mechanical Dehumidification Units (23 84 16 16)		
			Note: Sized by moisture removal per 24 hours.		
23 84 16 16-0002	EA		65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier	1,918.67	69.98
23 84 16 16-0003	EA		90 Pint Per Day, 235 CFM, 10" / 6" Duct Connection, Refrigerant Dehumidifier	2,409.12	81.64
23 84 16 16-0004	EA		120 Pint Per Day, 350 CFM, 10" / 6" Duct Connection, Refrigerant Dehumidifier	3,217.04	93.32
23 84 16 33 Portable Dehumidifiers (23 84 16)					
23 84 16 33-0001			Self Contained Free Standing Unit (23 84 16 33)		
			Note: Sized by moisture removal per 24 hours.		
23 84 16 33-0002	EA		30 Pint/24 Hour Dehumidifier	486.37	151.37
23 84 16 33-0003	EA		50 Pint/24 Hour Dehumidifier	572.48	151.37
23 84 16 33-0004	EA		70 Pint/24 Hour Dehumidifier	624.14	151.37

END OF SECTION 23



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.		
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	461.81	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	94.44	
	For >20 To 50, Add	75.55	
	For >50 To 100, Add	37.78	
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	597.21	
	Note: 2mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	128.29	
	For >20 To 50, Add	102.63	
	For >50 To 100, Add	51.32	
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	895.09	
	Note: 4mm thick, aluminum frame, hinged cover.		
	For Up To 20, Add	202.76	
	For >20 To 50, Add	162.21	
	For >50 To 100, Add	81.11	
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	457.95	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	93.48	
	For >20 To 50, Add	74.78	
	For >50 To 100, Add	37.39	
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	460.33	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	94.07	
	For >20 To 50, Add	75.26	
	For >50 To 100, Add	37.63	
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	586.18	
	Note: 2mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	125.54	
	For >20 To 50, Add	100.43	
	For >50 To 100, Add	50.21	
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	870.60	
	Note: 4mm thick, aluminum frame, twist cover.		
	For Up To 20, Add	196.64	
	For >20 To 50, Add	157.31	
	For >50 To 100, Add	78.66	
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	364.32	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	70.07	
	For >20 To 50, Add	56.06	
	For >50 To 100, Add	28.03	
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	510.55	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	106.63	
	For >20 To 50, Add	85.30	
	For >50 To 100, Add	42.65	
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPR)	723.80	
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.		
	For Up To 20, Add	159.94	
	For >20 To 50, Add	127.95	
	For >50 To 100, Add	63.98	
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	660.53	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	144.12	
	For >20 To 50, Add	115.30	
	For >50 To 100, Add	57.65	
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	905.19	
	Note: 4mm thick, aluminum frame, magnetic cover.		
	For Up To 20, Add	205.29	
	For >20 To 50, Add	164.23	
	For >50 To 100, Add	82.12	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,652.44	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	392.10	
			For >20 To 50, Add	313.68	
			For >50 To 100, Add	156.84	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	757.77	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	168.43	
			For >20 To 50, Add	134.75	
			For >50 To 100, Add	67.37	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,112.02	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	257.00	
			For >20 To 50, Add	205.60	
			For >50 To 100, Add	102.80	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001			Lock Out/Tag Out Devices <small>(26 01 20 91)</small> Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA		Lock Out/Tag Out Local Disconnect	49.33	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003	EA		Lock Out/Tag Out Breaker Or Motor Starter	49.33	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004	EA		Lock Out/Tag Out Padlock Device	13.71	
26 01 20 91-0005	EA		Lock Out/Tag Out Tags	3.89	
26 01 20 91-0006			Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01 20 91-0007	EA		Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	28.51	
26 01 20 91-0008	EA		Lighting, Existing Circuit Tracing Per Circuit	28.51	

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01)

26 01 30 91-0001			Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01 30 91-0002			Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01 30 91-0003	EA		APCD Permit To Construct And Operate Emergency Generator	3,932.86	

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001			Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small> Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0001 for disposal of hazardous lamps.		
26 01 50 51-0002			Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0003	EA		300 Watt, T3, Tungsten Halogen Lamp	45.09	
26 01 50 51-0004	EA		500 Watt, T3, Tungsten Halogen Lamp	56.67	
26 01 50 51-0005	EA		1,000 Watt, T3, Tungsten Halogen Lamp	82.57	
26 01 50 51-0006	EA		60 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0007	EA		75 Watt, PAR38, Halogen Lamp	25.25	
26 01 50 51-0008	EA		90 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0009	EA		100 Watt, PAR38, Halogen Lamp	24.22	
26 01 50 51-0010	EA		60 Watt, PAR38, Halogen IR Reflective Lamp	27.01	
26 01 50 51-0011	EA		67 Watt, PAR38, Halogen IR Reflective Lamp	28.74	
26 01 50 51-0012	EA		70 Watt, PAR38, Halogen IR Reflective Lamp	28.30	
26 01 50 51-0013	EA		90 Watt, PAR38, Halogen IR Reflective Lamp	29.62	
26 01 50 51-0014	EA		100 Watt, PAR38, Halogen IR Reflective Lamp	29.90	
26 01 50 51-0015	EA		12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	27.41	
26 01 50 51-0016	EA		12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	27.41	
26 01 50 51-0017	EA		12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	30.16	
26 01 50 51-0018	EA		12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	30.16	
26 01 50 51-0019			Incandescent Lamps <small>(26 01 50 51-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	7.50	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	8.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	10.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	12.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	9.63	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.27	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	14.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	17.01	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	15.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	25.79	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.72	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	50.93	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	58.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.17	
26 01 50 51-0031 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	121.54	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	33.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-9.07	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	37.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0035 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	13.44	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	15.57	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	17.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	15.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	21.49	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	19.25	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	19.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	28.78	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	22.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	18.80	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	14.96	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	16.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	16.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	16.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	23.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	20.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	25.05	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	18.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	16.15	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	15.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	17.07	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	27.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	26.20	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.53	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	14.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	14.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	14.77 -3.62	
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	15.31 -3.62	
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	17.19 -3.62	
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	18.82 -4.08	
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	18.33 -4.08	
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	19.74 -4.08	
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp	17.49	
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	11.06 -2.27	
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	12.04 -2.27	
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp <i>For Multiple Lamps In Fixture, Deduct</i>	22.80 -2.27	
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	30.26	
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	30.26	
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin	53.35	
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	20.51	
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	9.80	
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	8.96	
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	8.96	
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	26.76	
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	28.87	
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	51.72	
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps	61.24	
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps	63.18	
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	25.92	
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	26.85	
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	30.34	
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp	46.63	
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp	44.89	
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp	50.39	
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp	49.14	
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp	48.78	
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp	49.03	
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp	57.81	
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp	66.22	
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp	65.87	
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp	39.53	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp	39.53	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp	40.28	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp	41.71	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp	40.28	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp	40.28	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp	38.15	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	3.49	
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp	81.56	
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp	91.16	
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp	101.02	
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp	103.24	
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp	105.46	
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp	114.35	
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp	154.33	
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	13.10	
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116	EA			6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
26 01 50 51-0117	EA			11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	16.00	
26 01 50 51-0118	EA			14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	23.78	
26 01 50 51-0119	EA			17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	17.96	
26 01 50 51-0120	EA			18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	28.65	
26 01 50 51-0121				LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0122	EA			9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	22.27	
26 01 50 51-0123	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	20.62	
26 01 50 51-0124	EA			11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	24.99	
26 01 50 51-0125	EA			14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
26 01 50 51-0126	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	26.94	
26 01 50 51-0127	EA			18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	22.08	
26 01 50 51-0128				LED Lamps, Medium Base, PAR <small>(26 01 50 51-0112)</small>		
26 01 50 51-0129	EA			7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	23.83	
26 01 50 51-0130	EA			12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0131	EA			16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0132	EA			15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	28.90	
26 01 50 51-0133	EA			12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
26 01 50 51-0134	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	27.92	
26 01 50 51-0135	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	47.58	
26 01 50 51-0136	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0137	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	28.90	
26 01 50 51-0138	EA			19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0139	EA			24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	29.87	
26 01 50 51-0140				LED Lamps, GU Base, MR16 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0141	EA			4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	18.68	
26 01 50 51-0142	EA			6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	22.27	
26 01 50 51-0143	EA			8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	23.83	
26 01 50 51-0144				LED Lamps, PL Series <small>(26 01 50 51-0112)</small>		
26 01 50 51-0145	EA			3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	20.26	
26 01 50 51-0146	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	26.74	
26 01 50 51-0147	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	22.61	
26 01 50 51-0148	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	25.19	
26 01 50 51-0149	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	25.19	
26 01 50 51-0150	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	29.83	
26 01 50 51-0151	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	25.19	
26 01 50 51-0152	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	25.19	
26 01 50 51-0153	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	25.19	
26 01 50 51-0154	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	25.19	
26 01 50 51-0155	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	28.28	
26 01 50 51-0156	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	28.28	
26 01 50 51-0157	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	28.28	
26 01 50 51-0158	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	28.28	
26 01 50 51-0159	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	26.74	
26 01 50 51-0160	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	26.74	
26 01 50 51-0161	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	26.74	
26 01 50 51-0162	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	27.77	
26 01 50 51-0163	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	27.77	
26 01 50 51-0164	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	27.99	
26 01 50 51-0165	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	27.99	
26 01 50 51-0166	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	27.99	
26 01 50 51-0167	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	27.99	
26 01 50 51-0168	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	28.80	
26 01 50 51-0169	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	28.80	
26 01 50 51-0170	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	28.80	
26 01 50 51-0171	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	28.80	
26 01 50 51-0172	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	28.80	
26 01 50 51-0173	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	28.80	
26 01 50 51-0174	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	28.80	
26 01 50 51-0175	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	28.80	
26 01 50 51-0176	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	36.85	
26 01 50 51-0177	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	36.85	
26 01 50 51-0178	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	36.85	
26 01 50 51-0179	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	34.99	
26 01 50 51-0180	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	34.99	
26 01 50 51-0181	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	34.99	
26 01 50 51-0182	EA			4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	23.49	
26 01 50 51-0183				HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0112)</small>		
26 01 50 51-0184	EA			27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	70.54	
26 01 50 51-0185	EA			27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	70.54	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0186 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	89.60	
26 01 50 51-0187 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	89.60	
26 01 50 51-0188 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	61.08	
26 01 50 51-0189 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	61.08	
26 01 50 51-0190 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	61.08	
26 01 50 51-0191 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	61.08	
26 01 50 51-0192 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	63.14	
26 01 50 51-0193 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	63.14	
26 01 50 51-0194 EA 15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	63.14	
26 01 50 51-0195 EA 15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	63.14	
26 01 50 51-0196 EA 20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	71.38	
26 01 50 51-0197 EA 20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	71.38	
26 01 50 51-0198 EA 20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	71.38	
26 01 50 51-0199 EA 20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	71.38	
26 01 50 51-0200 EA 25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	81.69	
26 01 50 51-0201 EA 25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	81.69	
26 01 50 51-0202 EA 25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	81.69	
26 01 50 51-0203 EA 25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	81.69	
26 01 50 51-0204 EA 30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	104.36	
26 01 50 51-0205 EA 30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	104.36	
26 01 50 51-0206 EA 30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	104.36	
26 01 50 51-0207 EA 30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	104.36	
26 01 50 51-0208 EA 40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	123.94	
26 01 50 51-0209 EA 40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	123.94	
26 01 50 51-0210 EA 40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	123.94	
26 01 50 51-0211 EA 40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	123.94	
26 01 50 51-0212 EA 60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	137.34	
26 01 50 51-0213 EA 60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	137.34	
26 01 50 51-0214 EA 60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	137.34	
26 01 50 51-0215 EA 60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	137.34	
26 01 50 51-0216 EA 80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	185.77	
26 01 50 51-0217 EA 80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	185.77	
26 01 50 51-0218 EA 80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	185.77	
26 01 50 51-0219 EA 80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	185.77	
26 01 50 51-0220 EA 100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	191.95	
26 01 50 51-0221 EA 100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	191.95	
26 01 50 51-0222 EA 100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	191.95	
26 01 50 51-0223 EA 100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	191.95	
26 01 50 51-0224 EA 120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	228.02	
26 01 50 51-0225 EA 120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	228.02	
26 01 50 51-0226 EA 120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	228.02	
26 01 50 51-0227 EA 120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	228.02	
26 01 50 51-0228 EA 150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	271.30	
26 01 50 51-0229 EA 150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	271.30	
26 01 50 51-0230 EA 150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	271.30	
26 01 50 51-0231 EA 150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	271.30	
26 01 50 51-0232 EA 20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	87.51	
26 01 50 51-0233 EA 20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	94.72	
26 01 50 51-0234 EA 27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	94.72	
26 01 50 51-0235 EA 27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	87.51	
26 01 50 51-0236 EA 36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	110.18	
26 01 50 51-0237 EA 36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	100.90	
26 01 50 51-0238 EA 45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	121.51	
26 01 50 51-0239 EA 45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	120.30	
26 01 50 51-0240 EA 54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	123.06	
26 01 50 51-0241 EA 54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	123.06	
26 01 50 51-0242 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	74.14	
26 01 50 51-0243 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	74.14	
26 01 50 51-0244 EA 36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	83.67	
26 01 50 51-0245 EA 36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	83.67	
26 01 50 51-0246 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	90.01	
26 01 50 51-0247 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	90.01	
26 01 50 51-0248 EA 54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	99.53	
26 01 50 51-0249 EA 54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	99.53	
26 01 50 51-0250 EA 20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	100.03	
26 01 50 51-0251 EA 30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	108.48	
26 01 50 51-0252 EA 40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	135.17	
26 01 50 51-0253 EA 50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	148.97	
26 01 50 51-0254 EA 10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	57.98	
26 01 50 51-0255 EA 15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	65.40	
26 01 50 51-0256 EA 20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	69.11	
26 01 50 51-0257 EA 25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	76.01	
26 01 50 51-0258 EA 15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	91.60	
26 01 50 51-0259 EA 20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	107.46	
26 01 50 51-0260 EA 25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	147.09	
26 01 50 51-0261 EA 30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	155.01	
26 01 50 51-0262 EA 35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	167.70	
26 01 50 51-0263 EA 40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	175.62	
26 01 50 51-0264 EA 60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	253.31	
26 01 50 51-0265 EA 20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	69.89	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0266				HID LED Lamps, Mogul Base E39 Or EX39 <small>(26 01 50 51-0112)</small>		
	EA			120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	241.87	
	EA			120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	241.87	
	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	241.87	
	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	70.54	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	70.54	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	70.54	
	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39)	89.60	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R)	89.60	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39)	89.60	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39)	166.88	
	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039)	185.77	
	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039)	185.77	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039)	185.77	
	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039)	185.77	
	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039)	191.95	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039)	191.95	
	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039)	191.95	
	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039)	191.95	
	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039)	228.02	
	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039)	228.02	
	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039)	228.02	
	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039)	228.02	
	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039)	271.30	
	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039)	271.30	
	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039)	271.30	
	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039)	271.30	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5)	94.72	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5)	94.72	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5)	110.18	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5)	108.75	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5)	121.51	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5)	120.30	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5)	123.06	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5)	119.47	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5)	259.60	
	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7)	94.69	
	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7)	94.69	
	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7)	107.51	
	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7)	107.51	
	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7)	115.22	
	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7)	115.22	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7)	74.02	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7)	74.02	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7)	83.67	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7)	83.67	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7)	90.01	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7)	90.01	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7)	99.53	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7)	99.53	
	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39)	179.79	
	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39)	208.02	
	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39)	248.21	
	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39)	484.88	
	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39)	457.85	
	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39)	484.88	
	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39)	486.98	
	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A)	73.54	
	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A)	73.54	
	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A)	73.54	
	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50)	217.61	
	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D)	334.28	
	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K)	181.84	
	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K)	213.84	
	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K)	95.48	
	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K)	235.76	
26 01 50 51-0332				LED Lamps, 2G11 Base <small>(26 01 50 51-0112)</small>		
	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR)	40.95	
26 01 50 51-0334				LED Lamps, GX23 Or G23 Base <small>(26 01 50 51-0112)</small>		
	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4)	21.32	
26 01 50 51-0336				LED Lamps, G24 Base <small>(26 01 50 51-0112)</small>		
	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R)	27.01	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0338			LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small>		
26 01 50 51-0339	EA	2'	1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	36.97	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0340	EA	2'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	47.19	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0341	EA	3'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	39.80	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85	
26 01 50 51-0342	EA	4'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	43.46	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0343	EA	4'	2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	47.29	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0344	EA	4'	2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	31.00	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0345	EA	2'	1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	29.62	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0346	EA	2'	1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	27.25	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.62	
26 01 50 51-0347	EA	3'	1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	27.87	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-3.85	
26 01 50 51-0348	EA	4'	1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	28.05	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0349	EA	4'	2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	28.96	
			<i>For Multiple Lamps In Fixture, Deduct</i>	-4.08	
26 01 50 51-0350			Filament LED Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0351	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	22.66		
26 01 50 51-0352	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	22.66		
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	21.63		
26 01 50 51-0354	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	21.63		
26 01 50 51-0355	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	23.28		
26 01 50 51-0356	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	23.28		
26 01 50 51-0357	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	19.57		
26 01 50 51-0358	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	19.57		
26 01 50 51-0359	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	20.18		
26 01 50 51-0360	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	24.72		
26 01 50 51-0361	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	20.74		
26 01 50 51-0362			Other Lamps <small>(26 01 50 51-0112)</small>		
26 01 50 51-0363	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	21.46		
26 01 50 51-0364	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	21.46		
26 01 50 51-0365	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	21.46		
26 01 50 51-0366	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	22.49		
26 01 50 51-0367	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	22.49		
26 01 50 51-0368	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	22.49		
26 01 50 51-0369			LED Lamps, Light Engines, Round, LER Series <small>(26 01 50 51-0112)</small>		
26 01 50 51-0370	EA	5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	50.62		
26 01 50 51-0371	EA	9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	31.68		
26 01 50 51-0372			Recycle Hazardous Lamps <small>(26 01 50 51)</small>		
			Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.		
26 01 50 51-0373	EA	Recycle 2' Length Linear Fluorescent Lamps.....	0.38		
26 01 50 51-0374	EA	Recycle 3' Length Linear Fluorescent Lamps.....	0.56		
26 01 50 51-0375	EA	Recycle 4' Length Linear Fluorescent Lamps.....	0.75		
26 01 50 51-0376	EA	Recycle 6' Length Linear Fluorescent Lamps.....	1.13		
26 01 50 51-0377	EA	Recycle 8' Length Linear Fluorescent Lamps.....	1.51		
26 01 50 51-0378	EA	Recycle Compact Fluorescent Lamps.....	0.68		
26 01 50 51-0379	EA	Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.68		
26 01 50 51-0380	EA	Recycle High Intensity Discharge (HID) Lamps.....	2.35		
26 01 50 52			Ballasts Replacement <small>(26 01 50)</small>		
26 01 50 52-0001			Owner Supplied Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0002	EA	Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	27.47		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.24	
26 01 50 52-0003	EA	Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	34.33		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.30	
26 01 50 52-0004	EA	Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	39.83		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0005 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	42.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.77	
26 01 50 52-0006 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	48.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	50.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0008 High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0008)</small>		
26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	130.91	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	133.59	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	133.59	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	125.96	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	125.96	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	177.08	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	177.08	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	222.09	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	245.06	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	120.32	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	126.31	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	123.73	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	141.73	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	139.16	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	155.87	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	155.87	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	183.65	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	183.65	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	281.15	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	281.15	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type	18.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.12	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type	30.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.18	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	160.42	34.33
<i>For Pulse Start Ballast, Add</i>	11.24	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	167.85	34.33
<i>For Pulse Start Ballast, Add</i>	11.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	154.79	34.33
<i>For Pulse Start Ballast, Add</i>	10.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	176.25	34.33
<i>For Pulse Start Ballast, Add</i>	12.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	236.38	34.33
<i>For Pulse Start Ballast, Add</i>	18.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	188.58	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	200.16	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	299.62	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	449.96	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	499.34	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	482.26	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	363.95	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	410.19	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	534.89	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	532.20	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	738.28	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	738.28	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	513.85	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	600.76	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	660.52	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	629.90	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	803.55	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	803.55	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	406.32	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	437.18	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	434.14	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	454.82	34.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.42	
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	711.32	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	869.20	37.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.25	



		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0076	EA				1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 664.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0077	EA				1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 606.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>							
26 01 50 52-0079	EA				1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 518.30 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0080	EA				1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 557.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0081	EA				1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 821.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0082	EA				1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast 709.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0008)</small>							
26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>							
26 01 50 52-0085	EA				1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 175.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0086	EA				1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 175.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0087	EA				1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 194.73 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0088	EA				1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0089	EA				1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0090	EA				1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0091	EA				1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 52-0092	EA				1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast 468.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.42		34.33
26 01 50 53 Lens and Accessory Replacement <small>(26 01 50)</small>							
26 01 50 53-0001 Lens and Accessory Replacement <small>(26 01 50 53)</small>							
26 01 50 53-0002	EA				Removal And Replacement Of Parabolic Aluminum Louver 94.46		
26 01 50 53-0003	EA				Removal And Replacement Of Visor For Fixtures 210.74		
26 01 50 53-0004	EA				Removal And Replacement Of Globe On Pole 236.28		
26 01 50 53-0005	EA				Removal And Replacement Of Lenses For Flat Top Pole Fixtures 100.41		
26 01 50 53-0006	EA				Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 34.62		
26 01 50 53-0007	EA				Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 35.78		
26 01 50 53-0008	EA				Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser 40.80		
26 01 50 53-0009	EA				Removal And Replacement Of Slide-On Lampholder 15.53 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0010	EA				Removal And Replacement Of Screw Mount Lampholder 15.71 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0011	EA				Removal And Replacement Of Medium Bi-Pin Lampholder 17.24 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0012	EA				Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type 19.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0013	EA				Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type 21.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0014	EA				Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in 17.01 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 4.11		
26 01 50 53-0015	EA				Removal And Replacement Of Exterior Light Globes 60.77		
26 01 50 81 Luminaire Replacement <small>(26 01 50)</small>							
26 01 50 81-0001 Retrofit Lighting Fixtures <small>(26 01 50 81)</small>							
26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures <small>(26 01 50 81-0001)</small>							
26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) <small>(26 01 50 81-0002)</small>							
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.							
26 01 50 81-0004	EA				7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927) 121.33		
26 01 50 81-0005	EA				7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930) 121.33		
26 01 50 81-0006	EA				7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940) 121.33		
26 01 50 81-0007	EA				4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827) 100.31		
26 01 50 81-0008	EA				4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830) 100.31		

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 01	50 81-0009	EA	4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)	100.31	
26 01	50 81-0010	EA	6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)	109.16	
26 01	50 81-0011	EA	6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)	109.16	
26 01	50 81-0012	EA	6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)	109.16	

26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.

26 01	50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	351.04	
26 01	50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	364.31	
26 01	50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	377.59	
26 01	50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	393.60	
26 01	50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	432.31	
26 01	50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	448.32	
26 01	50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	484.82	
26 01	50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	498.09	
26 01	50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	514.10	
26 01	50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	538.43	
26 01	50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	564.41	
26 01	50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	589.85	
26 01	50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	603.12	
26 01	50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	625.24	
26 01	50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	651.46	
26 01	50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	679.11	
26 01	50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	721.14	
26 01	50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	739.94	
26 01	50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	772.54	
26 01	50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	815.68	
26 01	50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	837.80	
26 01	50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	890.57	
26 01	50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	939.23	
26 01	50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	972.94	
26 01	50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	1,020.50	
26 01	50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	1,112.83	
26 01	50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	1,123.89	
26 01	50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,152.34	

26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.

26 01	50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)	150.35	
			Note: Fits 1' x 4' Troffer/Strip		
26 01	50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)	150.35	
			Note: Fits 1' x 4' Troffer/Strip		
26 01	50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)	150.35	
			Note: Fits 1' x 4' Troffer/Strip		
26 01	50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50)	155.88	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50)	166.94	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35)	189.06	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40)	189.06	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50)	189.06	
			Note: Fits 2' x 4' Troffer/Strip		
26 01	50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35)	150.35	
			Note: Fits 1' x 2' Troffer/Strip		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 01 50 81-0062	EA		1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40) 150.35 Note: Fits 1' x 2' Troffer/Strip	150.35	
	26 01 50 81-0063	EA		1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50) 150.35 Note: Fits 1' x 2' Troffer/Strip	150.35	
	26 01 50 81-0064	EA		2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0065	EA		2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0066	EA		2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) 150.35 Note: Fits 2' x 2' Troffer/Strip	150.35	
	26 01 50 81-0067	EA		3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0068	EA		3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0069	EA		3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) 155.88 Note: Fits 2' x 2' Troffer/Strip	155.88	
	26 01 50 81-0070	EA		3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0071	EA		3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0072	EA		3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) 162.52 Note: Fits 2' x 2' Troffer/Strip	162.52	
	26 01 50 81-0073			LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) <small>(26 01 50 81-0002)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
	26 01 50 81-0074	EA		34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN)..... 333.47	333.47	
	26 01 50 81-0075	EA		34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN)..... 333.47	333.47	
	26 01 50 81-0076	EA		26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN)..... 301.39	301.39	
	26 01 50 81-0077	EA		26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN)..... 301.39	301.39	
	26 01 50 81-0078	EA		25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) 152.35 Note: No sensor, ZigBee ready driver	152.35	
	26 01 50 81-0079	EA		25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) 152.35 Note: No sensor, ZigBee ready driver	152.35	
	26 01 50 81-0080	EA		31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) 173.37 Note: No sensor, ZigBee ready driver	173.37	
	26 01 50 81-0081	EA		31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) 173.37 Note: No sensor, ZigBee ready driver	173.37	
	26 01 50 81-0082	EA		25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) 188.85 Note: Factory installed sensor and ZigBee dongle	188.85	
	26 01 50 81-0083	EA		25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) 188.85 Note: Factory installed sensor and ZigBee dongle	188.85	
	26 01 50 81-0084	EA		31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) 194.38 Note: Factory installed sensor and ZigBee dongle	194.38	
	26 01 50 81-0085	EA		31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) 194.38 Note: Factory installed sensor and ZigBee dongle	194.38	
	26 01 50 81-0086	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) 120.28 Note: No sensor, ZigBee ready driver	120.28	
	26 01 50 81-0087	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) 120.28 Note: No sensor, ZigBee ready driver	120.28	
	26 01 50 81-0088	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) 133.55 Note: No sensor, ZigBee ready driver	133.55	
	26 01 50 81-0089	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) 133.55 Note: No sensor, ZigBee ready driver	133.55	
	26 01 50 81-0090	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) 123.60 Note: No sensor, ZigBee ready driver	123.60	
	26 01 50 81-0091	EA		2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) 123.60 Note: No sensor, ZigBee ready driver	123.60	
	26 01 50 81-0092	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) 136.87 Note: No sensor, ZigBee ready driver	136.87	
	26 01 50 81-0093	EA		2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L) 136.87 Note: No sensor, ZigBee ready driver	136.87	
	26 01 50 81-0094	EA		6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450) 122.49 Note: No sensor, ZigBee ready driver	122.49	
	26 01 50 81-0095	EA		6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450) 122.49 Note: No sensor, ZigBee ready driver	122.49	
	26 01 50 81-0096	EA		8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000) 132.44 Note: No sensor, ZigBee ready driver	132.44	
	26 01 50 81-0097	EA		8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000) 132.44 Note: No sensor, ZigBee ready driver	132.44	
	26 01 50 81-0098			LED Lighting Retrofit Accessories (LG) <small>(26 01 50 81-0002)</small> See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
	26 01 50 81-0099	EA		Dongle (LG LGE-DONGLE)..... 21.91	21.91	
	26 01 50 81-0100	EA		1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B)..... 118.92	118.92	15.63
	26 01 50 81-0101	EA		2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B)..... 125.17	125.17	18.75
	26 01 50 81-0102	EA		1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B) 150.24	150.24	15.63

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B)	156.49	18.75
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	79.81	12.50
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP)	31.46	12.50
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE)	33.29	12.50
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....	78.99	18.75
Note: includes dongle		
26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures <small>(26 01 50 81-0001)</small>		
Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0372 for hazardous lamp recycling.		
26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....	95.64	
<i>For Specular Ballast Cover, Add</i>		9.54
26 01 50 81-0111 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	100.95	
<i>For Specular Ballast Cover, Add</i>		10.60
26 01 50 81-0112 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps	134.18	
<i>For Specular Ballast Cover, Add</i>		17.24
26 01 50 81-0113 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps	150.98	
<i>For Specular Ballast Cover, Add</i>		20.60
26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....	100.53	
<i>For Specular Reflector, Add</i>		10.51
26 01 50 81-0116 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	106.42	
<i>For Specular Reflector, Add</i>		11.69
26 01 50 81-0117 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	141.02	
<i>For Specular Reflector, Add</i>		18.61
26 01 50 81-0118 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps	172.80	
<i>For Specular Reflector, Add</i>		24.97
26 01 50 81-0119 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps	126.94	
<i>For Specular Reflector, Add</i>		13.06
26 01 50 81-0121 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	132.24	
<i>For Specular Reflector, Add</i>		14.12
26 01 50 81-0122 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps	134.72	
<i>For Specular Reflector, Add</i>		14.61
26 01 50 81-0123 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps	148.15	
<i>For Specular Reflector, Add</i>		17.30
26 01 50 81-0124 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps	173.86	
<i>For Specular Reflector, Add</i>		22.44
26 01 50 81-0125 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps	138.11	
<i>For Specular Reflector, Add</i>		15.29
26 01 50 81-0126 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps	149.33	
<i>For Specular Reflector, Add</i>		17.53
26 01 50 81-0127 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps	158.82	
<i>For Specular Reflector, Add</i>		19.43
26 01 50 81-0128 Retrofit Existing Recessed Lay-In/Troffer Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) <small>(26 01 50 81-0128)</small>		
Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0130 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0131 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0132 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	160.55	
26 01 50 81-0133 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	173.59	
26 01 50 81-0134 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0135 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0136 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	160.55	
26 01 50 81-0137 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	173.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0138 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0139 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0140 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	161.08	
26 01 50 81-0141 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	174.11	
26 01 50 81-0142 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0143 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0144 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	161.08	
26 01 50 81-0145 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	174.11	
26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0147 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	221.23	
26 01 50 81-0148 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	230.10	
26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0150 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	300.23	
26 01 50 81-0151 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	307.04	
26 01 50 81-0152 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	300.23	
26 01 50 81-0153 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	307.04	
26 01 50 81-0154 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	341.12	
26 01 50 81-0155 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	351.35	
26 01 50 81-0156 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	375.20	
26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		
26 01 50 81-0158 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	279.37	
26 01 50 81-0159 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	288.88	
26 01 50 81-0160 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	291.72	
26 01 50 81-0161 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	301.23	
26 01 50 81-0162 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	215.19	
26 01 50 81-0163 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	219.71	
26 01 50 81-0164 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	226.94	
26 01 50 81-0165 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	231.45	
26 01 50 81-0166 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	282.03	
26 01 50 81-0167 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST).....	332.60	
26 01 50 81-0168 Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) <small>(26 01 50 81-0128)</small>		
<small>Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.</small>		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0169 EA 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	240.09	
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	186.98	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	245.11	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	191.81	
26 01 50 81-0173 EA 3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	255.25	
26 01 50 81-0174 EA 3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	205.85	
26 01 50 81-0175 EA 1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	282.82	
26 01 50 81-0176 EA 1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	229.51	
26 01 50 81-0177 EA 2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	287.62	
26 01 50 81-0178 EA 2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	234.19	
26 01 50 81-0179 EA 3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	297.80	
26 01 50 81-0180 EA 3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	248.28	
26 01 50 81-0181 LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0182 EA 3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)	539.44	
26 01 50 81-0183 EA 4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT)	597.50	
26 01 50 81-0184 Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0185 EA Tear Drop LED Retrofit Kit (Holophane LTDR2 P35S 40K AS BK TDRD 3 P)	1,216.61	
26 01 50 81-0186 LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0187 LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)		
26 01 50 81-0188 EA 2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT)	130.29	
For >25 To 50, Deduct	-6.51	
For >50 To 100, Deduct	-11.31	
For >100, Deduct	-19.20	
26 01 50 81-0189 EA 2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT)	189.11	
For >25 To 50, Deduct	-9.46	
For >50 To 100, Deduct	-15.72	
For >100, Deduct	-25.08	
26 01 50 81-0190 EA 3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	141.70	
For >25 To 50, Deduct	-7.09	
For >50 To 100, Deduct	-12.25	
For >100, Deduct	-20.68	
26 01 50 81-0191 EA 3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT)	130.22	
For >25 To 50, Deduct	-6.51	
For >50 To 100, Deduct	-11.39	
For >100, Deduct	-19.53	
26 01 50 81-0192 EA 4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	170.47	
For >25 To 50, Deduct	-8.52	
For >50 To 100, Deduct	-14.50	
For >100, Deduct	-23.90	
26 01 50 81-0193 EA 4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT)	221.45	
For >25 To 50, Deduct	-11.07	
For >50 To 100, Deduct	-18.32	
For >100, Deduct	-29.00	
26 01 50 81-0194 EA 4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT)	140.73	
For >25 To 50, Deduct	-7.04	
For >50 To 100, Deduct	-12.27	
For >100, Deduct	-20.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0195 EA 4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	140.73	
<i>For >25 To 50, Deduct</i>	-7.04	
<i>For >50 To 100, Deduct</i>	-12.27	
<i>For >100, Deduct</i>	-20.92	
26 01 50 81-0196 EA 4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	180.67	
<i>For >25 To 50, Deduct</i>	-9.03	
<i>For >50 To 100, Deduct</i>	-15.26	
<i>For >100, Deduct</i>	-24.92	
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	153.47	
<i>For >25 To 50, Deduct</i>	-7.67	
<i>For >50 To 100, Deduct</i>	-13.22	
<i>For >100, Deduct</i>	-22.20	
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	309.44	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-15.47	
<i>For >50 To 100, Deduct</i>	-24.92	
<i>For >100, Deduct</i>	-37.80	
26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	333.55	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-16.68	
<i>For >50 To 100, Deduct</i>	-26.73	
<i>For >100, Deduct</i>	-40.21	
26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	351.58	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-17.58	
<i>For >50 To 100, Deduct</i>	-28.08	
<i>For >100, Deduct</i>	-42.01	
26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	379.74	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-18.99	
<i>For >50 To 100, Deduct</i>	-30.19	
<i>For >100, Deduct</i>	-44.83	
26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	407.33	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-20.37	
<i>For >50 To 100, Deduct</i>	-32.61	
<i>For >100, Deduct</i>	-48.96	
26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	440.03	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	203.33	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	132.17	
<i>For >25 To 50, Deduct</i>	-22.00	
<i>For >50 To 100, Deduct</i>	-35.06	
<i>For >100, Deduct</i>	-52.23	
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) <small>(26 01 50 81-0186)</small>		
Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	103.86	
Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-5.19	
<i>For >50 To 100, Deduct</i>	-9.33	
<i>For >100, Deduct</i>	-16.55	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0208	EA	2'	Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	103.86	
			Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-5.19	
			For >50 To 100, Deduct	-9.33	
			For >100, Deduct	-16.55	
26 01 50 81-0209	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	133.32	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.71	
			For >100, Deduct	-20.18	
26 01 50 81-0210	EA	4'	Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	133.32	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.71	
			For >100, Deduct	-20.18	
26 01 50 81-0211	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0212	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0213	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0214	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0215	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0216	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0217	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	133.41	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-6.67	
			For >50 To 100, Deduct	-11.72	
			For >100, Deduct	-20.19	
26 01 50 81-0218	EA	4'	Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	143.81	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.50	
			For >100, Deduct	-21.23	
26 01 50 81-0219	EA	4'	Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	143.72	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-7.19	
			For >50 To 100, Deduct	-12.49	
			For >100, Deduct	-21.22	
26 01 50 81-0220	EA	4'	Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	165.97	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			For >25 To 50, Deduct	-8.30	
			For >50 To 100, Deduct	-14.16	
			For >100, Deduct	-23.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0221 EA 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) 178.96 Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-8.95	
<i>For >50 To 100, Deduct</i>	-15.13	
<i>For >100, Deduct</i>	-24.75	
26 01 50 81-0222 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50) 165.97 Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-8.30	
<i>For >50 To 100, Deduct</i>	-14.16	
<i>For >100, Deduct</i>	-23.45	
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) 178.96 Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-8.95	
<i>For >50 To 100, Deduct</i>	-15.13	
<i>For >100, Deduct</i>	-24.75	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800) 163.14 Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
<i>For >25 To 50, Deduct</i>	-8.16	
<i>For >50 To 100, Deduct</i>	-12.58	
<i>For >100, Deduct</i>	-17.69	
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W) 149.99 Note: 90-minute emergency battery with power output of 20 Watts		
<i>For >25 To 50, Deduct</i>	-7.50	
<i>For >50 To 100, Deduct</i>	-11.59	
<i>For >100, Deduct</i>	-16.37	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50) 173.37 Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-8.67	
<i>For >50 To 100, Deduct</i>	-15.23	
<i>For >100, Deduct</i>	-26.24	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F) 179.86 Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-8.99	
<i>For >50 To 100, Deduct</i>	-15.72	
<i>For >100, Deduct</i>	-26.89	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40) 243.69 Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-12.18	
<i>For >50 To 100, Deduct</i>	-20.50	
<i>For >100, Deduct</i>	-33.28	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) 269.68 Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-13.48	
<i>For >50 To 100, Deduct</i>	-22.45	
<i>For >100, Deduct</i>	-35.87	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50) 243.69 Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-12.18	
<i>For >50 To 100, Deduct</i>	-20.50	
<i>For >100, Deduct</i>	-33.28	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) 269.68 Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
<i>For >25 To 50, Deduct</i>	-13.48	
<i>For >50 To 100, Deduct</i>	-22.45	
<i>For >100, Deduct</i>	-35.87	

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0003	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,306.37	1,048.33
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,140.46	1,144.67
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,167.66	1,293.31
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,041.59	1,593.41
26 05 13 16-0008	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,168.34	1,794.32
26 05 13 16-0009	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,347.49	1,991.65
26 05 13 16-0010	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,774.55	2,237.82
26 05 13 16-0011	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,239.50	2,489.66
26 05 13 16-0012	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,733.29	2,972.60
26 05 13 16-0013	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,470.96	3,494.22
26 05 13 16-0014	MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	33,970.52	4,118.32
26 05 13 16-0015	MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	45,476.62	4,742.12
26 05 13 16-0016	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
	Note: Excludes excavation.		
26 05 13 16-0017	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,175.32	
26 05 13 16-0018	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,768.45	
26 05 13 16-0019	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,424.02	
26 05 13 16-0020	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,794.04	
26 05 13 16-0021	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,418.39	
26 05 13 16-0022	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,349.84	
26 05 13 16-0023	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,161.49	
26 05 13 16-0024	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,248.73	
26 05 13 16-0025	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,665.95	
26 05 13 16-0026	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	17,217.44	
26 05 13 16-0027	Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0028	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,415.45	661.61
26 05 13 16-0029	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,133.79	709.39
26 05 13 16-0030	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,279.80	897.08
26 05 13 16-0031	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,905.51	1,089.03
26 05 13 16-0032	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,025.04	1,278.42
26 05 13 16-0033	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,190.88	1,462.01
26 05 13 16-0034	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,615.13	1,696.35
26 05 13 16-0035	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,595.26	2,134.11
26 05 13 16-0036	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,361.75	2,700.31
26 05 13 16-0037	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,605.91	3,392.68
26 05 13 16-0038	5 KV Non-Shielded Single Copper Conductor <small>(26 05 13 16-0002)</small>		
26 05 13 16-0039	MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,436.17	2,089.19
26 05 13 16-0040	MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,985.94	2,119.21
26 05 13 16-0041	MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,535.70	2,149.23
26 05 13 16-0042	MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,075.55	2,196.74
26 05 13 16-0043	MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,783.45	2,280.54
26 05 13 16-0044	MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,827.87	2,390.03
26 05 13 16-0045	MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	35,556.82	2,987.54
26 05 13 16-0046	MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	40,855.25	3,983.44
26 05 13 16-0047	Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <small>(26 05 13 16-0002)</small>		
26 05 13 16-0048	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,609.80	1,048.33
26 05 13 16-0049	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,550.65	1,144.67
26 05 13 16-0050	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,695.85	1,293.31
26 05 13 16-0051	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,733.76	1,443.27
26 05 13 16-0052	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,772.06	1,593.41
26 05 13 16-0053	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,011.20	1,794.32
26 05 13 16-0054	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,493.78	1,991.65
26 05 13 16-0055	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,066.93	2,237.82
26 05 13 16-0056	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,862.29	2,489.66
26 05 13 16-0057	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,587.58	2,972.60
26 05 13 16-0058	MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,943.35	3,494.22
26 05 13 16-0059	MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	38,232.64	4,118.32
26 05 13 16-0060	MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	51,528.46	4,742.12
26 05 13 16-0061	Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial <small>(26 05 13 16-0002)</small>		
	Note: Excludes excavation.		
26 05 13 16-0062	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,478.75	
26 05 13 16-0063	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,178.65	



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0064	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,952.21	
26 05 13 16-0065	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,738.93	
26 05 13 16-0066	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,524.52	
26 05 13 16-0067	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,261.25	
26 05 13 16-0068	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,496.13	
26 05 13 16-0069	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,453.87	
26 05 13 16-0070	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,871.52	
26 05 13 16-0071	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	15,520.24	
26 05 13 16-0072	MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	19,689.83	
26 05 13 16-0073	Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0002)</small>		
26 05 13 16-0074	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,718.88	661.61
26 05 13 16-0075	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,543.98	709.39
26 05 13 16-0076	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,807.99	897.08
26 05 13 16-0077	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,720.22	992.35
26 05 13 16-0078	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,635.98	1,089.03
26 05 13 16-0079	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,867.90	1,278.42
26 05 13 16-0080	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,337.17	1,462.01
26 05 13 16-0081	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,907.51	1,696.35
26 05 13 16-0082	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,218.05	2,134.11
26 05 13 16-0083	MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,216.04	2,700.31
26 05 13 16-0084	MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	25,078.30	3,392.68
26 05 13 16-0085	15 KV Cable <small>(26 05 13 16-0001)</small>		
26 05 13 16-0086	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>		
26 05 13 16-0087	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0086)</small>		
26 05 13 16-0088	MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,108.75	2,089.19
26 05 13 16-0089	MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,899.23	2,089.19
26 05 13 16-0090	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,200.75	2,089.19
26 05 13 16-0091	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,182.99	2,089.19
26 05 13 16-0092	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,115.28	2,089.19
26 05 13 16-0093	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,908.94	2,180.75
26 05 13 16-0094	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,275.19	2,180.75
26 05 13 16-0095	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,522.67	2,280.54
26 05 13 16-0096	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,803.89	2,334.01
26 05 13 16-0097	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,253.97	2,629.04
26 05 13 16-0098	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0086)</small> Note: Excludes excavation.		
26 05 13 16-0099	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,953.41	
26 05 13 16-0100	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,935.64	
26 05 13 16-0101	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,867.93	
26 05 13 16-0102	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,690.49	
26 05 13 16-0103	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,056.73	
26 05 13 16-0104	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,427.65	
26 05 13 16-0105	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,712.63	
26 05 13 16-0106	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,863.94	
26 05 13 16-0107	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0086)</small>		
26 05 13 16-0108	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,448.83	945.13
26 05 13 16-0109	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,807.31	1,089.03
26 05 13 16-0110	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,234.79	1,278.42
26 05 13 16-0111	MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,279.85	1,462.01
26 05 13 16-0112	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,258.69	1,696.35
26 05 13 16-0113	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,984.64	1,974.76
26 05 13 16-0114	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,985.32	2,301.11
26 05 13 16-0115	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	23,670.22	2,672.95
26 05 13 16-0116	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>		
26 05 13 16-0117	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0116)</small>		
26 05 13 16-0118	MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,808.19	2,089.19
26 05 13 16-0119	MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,740.95	2,089.19
26 05 13 16-0120	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,096.75	2,089.19

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,255.79	2,089.19
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,355.89	2,089.19
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,431.24	2,180.75
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,863.42	2,180.75
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,470.49	2,280.54
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,138.28	2,334.01
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	26,256.62	2,629.04
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,849.41	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,008.45	
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,108.55	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,212.79	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,644.96	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,369.80	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	19,037.67	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	23,866.59	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,344.83	945.13
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,880.12	1,089.03
26 05 13 16-0140 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,475.41	1,278.42
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,802.15	1,462.01
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,846.92	1,696.35
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,932.47	1,974.76
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,319.71	2,301.11
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	26,672.87	2,672.95
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,330.16	2,096.51
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,433.20	2,146.62
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,475.30	2,196.74
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	24,213.65	2,343.13
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.60	15.99
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	74.20	17.03
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	61.60	15.99
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	74.20	17.03
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,505.34	1,048.33
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,409.44	1,144.67
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,514.01	1,293.31
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,510.00	1,589.07
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,707.61	1,788.94
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,099.16	1,991.65
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	13,601.15	2,229.45
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	23,150.88	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	340.71	136.83
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	399.33	136.83
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	399.33	136.83
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	440.05	164.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	494.34	191.56
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	450.20	164.19
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	521.97	191.56
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,155.32	328.38
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,597.81	451.52
26 05 13 16-0186 Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	1,190.73	328.38
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	1,481.20	376.28
26 05 13 16-0189 Two Conductor Pothead (26 05 13 16-0169)		
Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,125.46	451.52
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,460.14	574.68
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,974.05	651.57
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,862.18	760.21
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	4,964.20	1,140.18
26 05 13 16-0195 Three Conductor Pothead (26 05 13 16-0169)		
Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,171.71	656.77
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,527.31	766.23
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0169)		
Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire.....	84.57	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire.....	92.80	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire.....	108.23	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire.....	123.17	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire.....	138.81	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	154.17	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	169.41	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	185.13	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	200.57	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire.....	216.22	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire.....	232.13	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire.....	247.40	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire.....	279.07	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire.....	311.40	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0169)		
Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	85.83	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	93.49	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	125.48	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	144.67	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	159.70	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	174.69	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	191.26	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	207.05	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	222.55	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	238.32	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	253.90	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	288.37	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	323.01	
26 05 13 16-0227 15 KV (26 05 13 16-0169)		
26 05 13 16-0228 Single Conductor Pothead On Racks (26 05 13 16-0227)		
Note: Includes pothead.		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	1,386.18	574.68
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	1,751.30	711.50
26 05 13 16-0231 Two Conductor Pothead On Rack (26 05 13 16-0227)		
Note: Includes pothead.		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,085.91	875.69

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,487.06	1,039.89
26 05 13 16-0234 Three Conductor Pothead On Rack (26 05 13 16-0227) Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	2,687.20	1,135.66
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,353.30	1,423.00
26 05 13 16-0237 Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,343.40	574.68
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack.....	1,703.20	711.50
26 05 13 16-0240 Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	962.60	424.16
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,237.85	547.31
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	4,627.07	1,505.10
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	5,600.36	1,641.93
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV.....	589.31	239.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.67	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV.....	750.82	307.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	184.72	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV.....	924.46	376.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	225.76	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV.....	356.95	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.10	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	602.48	177.88
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	678.78	196.59
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	784.58	215.15
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	975.24	247.88
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,204.97	356.36
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,357.67	393.19
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,553.22	422.31
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,950.47	495.75
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing.....	2,392.83	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV.....	461.83	164.33
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	658.77	247.93
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV.....	737.82	265.17
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV.....	374.17	136.83
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	7,794.06	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing.....	2,436.10	

26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)

26 05 19 13 Undercarpet Electrical Power Cables (26 05 19)

26 05 19 13-0001 Under Carpet Power System (26 05 19 13)

Note: Includes laying out, floor prep, taping, testing, drill floor, folds.

26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield.....	6.80	0.62
26 05 19 13-0003 LF Steel, Top Shield.....	9.19	0.62
26 05 19 13-0004 EA 3-Conductor, Splice.....	39.18	10.62
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor.....	11.48	5.00
26 05 19 13-0006 EA 3-Conductor, Tap.....	48.81	12.50
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End.....	75.36	10.62
26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly.....	49.10	6.25
26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box.....	148.22	20.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box.....	246.85	31.25
26 05 19 13-0011 EA Floor Mounted Box With Cover.....	245.47	25.01
26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield	10.80	0.62
26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable.....	10.72	0.62
26 05 19 13-0014 EA 5-Conductor, Splice	39.70	10.62
26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly	64.80	6.25
26 05 19 13-0016 EA Box, Wall, Flush With Cover	111.32	25.01
26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box	73.71	20.63
26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover.....	96.74	23.75
26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45	41.56	9.38
26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire.....	2.42	0.62
26 05 19 13-0021 EA BNC, Coax Plug, Connector	33.58	12.50
26 05 19 13-0022 EA TNC, Coax Plug, Connector	33.58	12.50
26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	176.25	62.51
 26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.43	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.22	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.69	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.41	
 26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	2.92	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.70	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	407.65	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
 26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.		
26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)		
26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.49	0.55
26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.57	0.55
26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.78	0.55
 26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.72	0.55
26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.86	0.55
26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.05	0.55
 26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.55
26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.19	0.55
26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.61	0.55
 26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.33	0.55
26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.59	0.55
26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.96	0.55
 26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)		
26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.10	0.68

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJ00W Cord (Carol Carolprene)	3.27	0.68
26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJ00W Cord (Carol Carolprene)	3.54	0.68
26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.57	0.55
26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.72	0.55
26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.92	0.55
26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.46	0.74
26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.80	0.76
26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.06	0.78
26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.47	0.80
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.18	0.84
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.95	0.86
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.98	0.88
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.12	0.90
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.35	0.92
26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.33	0.94
26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.87	0.96
26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.38	1.02
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.86	0.55
26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.99	0.55
26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.26	0.55
26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.63	0.74
26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.03	0.76
26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.43	0.78
26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.93	0.80
26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.14	0.82
26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.74	0.84
26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.76	0.86
26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.28	0.88
26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.27	0.90
26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.61	0.92
26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.83	0.94
26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.16	0.96
26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.51	0.98
26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	16.97	1.02
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)		
26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.23	0.55
26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.38	0.55
26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.76	0.55
26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.82	0.74
26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.84	0.76
26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.18	0.78
26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.99	0.80
26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.54	0.82
26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.45	0.84
26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.32	0.86
26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.33	0.88
26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	12.50	0.90
26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	14.07	0.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.65	0.96
26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.76	1.02
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.61	0.55
26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.90	0.55
26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.19	0.55
26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.57	0.74
26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.51	0.76
26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.47	0.78
26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.51	0.80
26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.25	0.82
26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.51	0.84
26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.01	0.86
26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.41	0.88
26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.81	0.90
26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.47	0.92
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.89	0.94
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	20.37	0.96
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	22.87	0.98
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	23.66	1.00
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	24.54	1.02
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.02	0.68
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.27	0.68
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.53	0.68
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.77	0.74
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.04	0.76
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.52	0.78
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.34	0.84
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.19	0.86
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.19	0.90
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	26.66	0.94
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.26	0.82
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.84	0.96
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.48	0.96
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.15	0.96
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.07	1.09
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.29	1.37
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	14.71	1.37
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	16.17	1.50
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.60	1.64
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	21.71	2.74
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.67	3.42
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	33.25	4.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0133		300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0134		#18, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0135	LF	2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.06	0.55
26 05 19 16-0136	LF	3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.30	0.55
26 05 19 16-0137	LF	4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0138		#16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0139	LF	2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.21	0.55
26 05 19 16-0140	LF	3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.59	0.55
26 05 19 16-0141	LF	4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.76	0.55
26 05 19 16-0142		#14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0143	LF	2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.16	0.55
26 05 19 16-0144	LF	3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.71	0.55
26 05 19 16-0145	LF	4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	6.08	0.68
26 05 19 16-0146		600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0147		#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0148	LF	2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.04	0.55
26 05 19 16-0149	LF	3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.69	0.55
26 05 19 16-0150	LF	4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.37	0.55
26 05 19 16-0151		#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0152	LF	2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.27	0.55
26 05 19 16-0153	LF	3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.94	0.55
26 05 19 16-0154	LF	4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.99	0.55
26 05 19 16-0155	LF	5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.39	0.68
26 05 19 16-0156		#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0157	LF	3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.09	0.55
26 05 19 16-0158	LF	4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.95	0.55
26 05 19 16-0159	LF	5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.54	0.68
26 05 19 16-0160		#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0161	LF	3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.90	0.55
26 05 19 16-0162	LF	4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.66	0.55
26 05 19 16-0163	LF	5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.32	0.68
26 05 19 16-0164		#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0146)</small>		
26 05 19 16-0165	LF	3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	5.63	0.68
26 05 19 16-0166	LF	4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.31	0.68
26 05 19 16-0167	LF	5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	6.97	0.68
26 05 19 16-0168		Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0013)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169		600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0168)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0170				#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0171	LF			3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.24	0.55
26 05 19 16-0172	LF			4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.49	0.55
26 05 19 16-0173	LF			5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.91	0.68
26 05 19 16-0174				#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0175	LF			3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.03	0.55
26 05 19 16-0176	LF			4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.52	0.55
26 05 19 16-0177	LF			5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.15	0.68
26 05 19 16-0178				#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0179	LF			3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.84	0.55
26 05 19 16-0180	LF			4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.48	0.55
26 05 19 16-0181	LF			5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0182				#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord <small>(26 05 19 16-0169)</small>		
26 05 19 16-0183	LF			3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.91	0.68
26 05 19 16-0184	LF			4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	5.68	0.68
26 05 19 16-0185	LF			5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	6.10	0.68
26 05 19 16-0186				Multi-Conductor Type W Cord <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187				2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0186)</small>		
26 05 19 16-0188				#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189	LF			3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.91	0.82
26 05 19 16-0190	LF			4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.44	0.96
26 05 19 16-0191	LF			5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.86	0.96
26 05 19 16-0192				#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193	LF			3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.40	0.96
26 05 19 16-0194	LF			4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.85	1.09
26 05 19 16-0195	LF			5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	11.03	1.37
26 05 19 16-0196				#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197	LF			3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.26	0.96
26 05 19 16-0198	LF			4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.13	1.09
26 05 19 16-0199	LF			5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	15.64	1.37
26 05 19 16-0200				Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0012)</small>		
26 05 19 16-0201				Cord Grips <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202	EA			Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	85.86	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0203	EA			Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	86.19	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.88	
26 05 19 16-0204				Cable Reels <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205	EA			30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	824.08	68.41
26 05 19 16-0206	EA			50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	2,300.69	68.41
26 05 19 16-0207	EA			50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,717.00	68.41
26 05 19 16-0208				Extension Cords For Cable Reel <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209	EA			100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	176.52	
26 05 19 16-0210	EA			100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	246.64	
26 05 19 16-0211				Plugs And Connector Bodies <small>(26 05 19 16-0200)</small> Note: Up to 277 volt		
26 05 19 16-0212				NEMA Twist-Lock Plugs <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213	EA			15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	96.13	
26 05 19 16-0214	EA			15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	98.27	
26 05 19 16-0215	EA			20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	89.29	
26 05 19 16-0216	EA			20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.87	
26 05 19 16-0217	EA			20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	126.70	

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0218	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441)	135.05	
26 05 19 16-0219	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK)	143.23	
26 05 19 16-0220	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK)	127.94	
26 05 19 16-0221	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	148.02	
26 05 19 16-0222	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	151.93	
26 05 19 16-0223	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	156.91	
26 05 19 16-0224 NEMA Twist-Lock Connector Bodies (26 05 19 16-0211)					
26 05 19 16-0225	EA		15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	102.17	
26 05 19 16-0226	EA		15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	109.73	
26 05 19 16-0227	EA		20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	93.82	
26 05 19 16-0228	EA		20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	127.94	
26 05 19 16-0229	EA		20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	149.98	
26 05 19 16-0230	EA		20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	160.64	
26 05 19 16-0231	EA		20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	196.54	
26 05 19 16-0232	EA		30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	187.48	
26 05 19 16-0233	EA		30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	232.44	
26 05 19 16-0234	EA		30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	244.34	
26 05 19 16-0235	EA		30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	231.37	
26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)					
26 05 19 16-0237	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	257.70	41.05
26 05 19 16-0238	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	260.25	41.05
26 05 19 16-0239	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	280.02	41.05
26 05 19 16-0240	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	282.27	45.15
26 05 19 16-0241	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	278.44	45.15
26 05 19 16-0242	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	279.58	45.15
26 05 19 16-0243	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	387.72	50.49
26 05 19 16-0244	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	378.16	50.49
26 05 19 16-0245	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	419.20	50.49
26 05 19 16-0246	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	414.44	55.42
26 05 19 16-0247	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	397.84	55.42
26 05 19 16-0248	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	409.26	55.42
26 05 19 16-0249	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	525.51	65.68
26 05 19 16-0250	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	534.60	65.68
26 05 19 16-0251	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	513.03	65.68
26 05 19 16-0252	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	583.49	73.06
26 05 19 16-0253	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	569.33	73.06
26 05 19 16-0254	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	575.45	73.06
26 05 19 16-0255	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	717.60	82.10
26 05 19 16-0256	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	752.74	82.10
26 05 19 16-0257	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	738.44	90.31
26 05 19 16-0258	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	726.44	90.31
26 05 19 16-0259	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	732.92	90.31
26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)					
26 05 19 16-0261	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	272.35	41.05
26 05 19 16-0262	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	274.11	41.05
26 05 19 16-0263	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	319.65	41.05
26 05 19 16-0264	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	319.18	45.15
26 05 19 16-0265	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	314.56	45.15
26 05 19 16-0266	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	318.74	45.15
26 05 19 16-0267	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	396.47	50.49
26 05 19 16-0268	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	396.37	50.49
26 05 19 16-0269	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	412.08	50.49
26 05 19 16-0270	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	410.17	55.42
26 05 19 16-0271	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	413.41	55.42
26 05 19 16-0272	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	409.99	55.42
26 05 19 16-0273	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	615.27	65.68
26 05 19 16-0274	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	596.03	65.68
26 05 19 16-0275	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	584.57	65.68
26 05 19 16-0276	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	636.91	73.06
26 05 19 16-0277	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	653.64	73.06
26 05 19 16-0278	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	654.86	73.06
26 05 19 16-0279	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	816.06	82.10
26 05 19 16-0280	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	838.12	82.10
26 05 19 16-0281	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	906.37	90.31
26 05 19 16-0282	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	876.06	90.31
26 05 19 16-0283	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	886.40	90.31
26 05 19 16-0284 Accessories (26 05 19 16-0200)					
26 05 19 16-0285	EA		1/2" Straight Steel Cord Connector	58.04	13.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 05 19 16-0286	EA		1/2" Straight Nylon Cord Connector	35.86	10.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.16	
26 05 19 16-0287	EA		1/2" 90 Degree Steel Cord Connector	67.19	17.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85 8.21	13.69
26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.43 10.26	17.10
26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.29 12.32	20.52
26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.26 8.21	13.69
26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.98 10.26	17.10
26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.20 8.21	13.69
26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.95 6.16	10.26
26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.93 10.26	17.10
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.22 8.21	13.69
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.53 12.31	20.52
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.60 14.37	23.95
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.38 10.26	17.10
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.19 12.32	20.52
26 05 19 16-0301 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.05 8.21	13.69
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.88 6.16	10.26
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.08 10.26	17.10
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.80 8.21	13.69
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.07 12.31	20.52
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.20 14.37	23.95
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.76 10.26	17.10
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.44 12.32	20.52
26 05 19 16-0309 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0310 Single Solid Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	776.23	303.41
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	977.10	356.92
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,217.89	436.43
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,010.08	303.41
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,226.96	356.92
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,481.62	436.43
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	815.71	250.03
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	960.86	300.03
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,191.12	350.05
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,478.79	400.05
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,985.35	500.06
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,715.74	600.07
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,749.71	750.10
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,453.18	850.10
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,298.05	950.12
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,624.79	1,050.13
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,974.93	1,200.15
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,592.29	1,350.17
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,533.30	1,500.18
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,886.67	1,650.20
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,693.64	1,800.22
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,505.19	1,950.24
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,665.20	2,100.25
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	20,922.45	2,250.28
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	24,318.80	2,400.30
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	28,079.88	2,600.32
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	43,153.30	2,900.35
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	61,176.17	3,400.42
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,921.73	599.95
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,382.54	700.22
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,968.49	850.10
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,576.43	924.74
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,912.95	974.99
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,584.09	1,074.88
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,011.60	1,120.39
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,592.22	1,225.16
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,201.79	1,300.41
26 05 19 16-0351 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,184.42	1,650.33
26 05 19 16-0352 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,924.50	2,450.30
26 05 19 16-0353 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,382.53	700.22
26 05 19 16-0354 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,073.42	850.10
26 05 19 16-0355 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,764.33	1,000.12
26 05 19 16-0356 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,206.65	899.73
26 05 19 16-0357 MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,183.99	1,099.13
26 05 19 16-0358 MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,415.73	1,400.42
26 05 19 16-0359 MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,374.13	1,800.85
26 05 19 16-0360 MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,059.00	2,300.40
26 05 19 16-0361 MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,033.22	1,025.13
26 05 19 16-0362 MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,205.97	1,200.15
26 05 19 16-0363 MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,753.77	1,525.19
26 05 19 16-0364 MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,306.59	1,150.14
26 05 19 16-0365 MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,209.60	1,425.18
26 05 19 16-0366 MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,256.52	1,757.71
26 05 19 16-0367 MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,237.42	1,395.42
26 05 19 16-0368 MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,613.66	1,596.07
26 05 19 16-0369 MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,477.17	1,991.74
26 05 19 16-0370 MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,094.77	1,699.71
26 05 19 16-0371 MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,520.09	1,900.74
26 05 19 16-0372 MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,941.81	2,500.30
26 05 19 16-0373 MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,998.09	2,399.92
26 05 19 16-0374 MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,495.56	2,999.12
26 05 19 16-0375 MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,425.61	2,600.82
26 05 19 16-0376 MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,148.33	2,999.12
26 05 19 16-0377 MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,095.81	3,498.93
26 05 19 16-0378 MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,377.87	4,498.68
26 05 19 16-0379 MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	39,293.30	4,003.87
26 05 19 16-0380 MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	41,825.78	4,498.68
26 05 19 16-0381 MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	52,745.16	5,000.62
26 05 19 16-0382 MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	68,694.01	5,495.92

26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0309)

Note: Direct bury.

26 05 19 16-0384 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,284.80	
26 05 19 16-0385 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,516.08	
26 05 19 16-0386 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,950.77	
26 05 19 16-0387 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,600.74	
26 05 19 16-0388 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,769.51	
26 05 19 16-0389 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,017.69	
26 05 19 16-0390 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,425.47	
26 05 19 16-0391 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,404.62	
26 05 19 16-0392 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,647.46	
26 05 19 16-0393 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,244.98	
26 05 19 16-0394 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,333.36	
26 05 19 16-0395 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,637.03	
26 05 19 16-0396 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,248.53	
26 05 19 16-0397 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,698.20	
26 05 19 16-0398 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,833.16	
26 05 19 16-0399 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,532.21	
26 05 19 16-0400 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,865.89	
26 05 19 16-0401 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	46,135.95	
26 05 19 16-0402 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	74,985.53	
26 05 19 16-0403 MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	952.33	
26 05 19 16-0404 MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,145.80	
26 05 19 16-0405 MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,379.88	
26 05 19 16-0406 MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,688.64	
26 05 19 16-0407 MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,189.93	
26 05 19 16-0408 MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,932.18	
26 05 19 16-0409 MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,009.65	
26 05 19 16-0410 MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,775.15	
26 05 19 16-0411 MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,400.46	
26 05 19 16-0412 MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,087.68	
26 05 19 16-0413 MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,103.07	
26 05 19 16-0414 MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,343.81	
26 05 19 16-0415 MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,494.22	
26 05 19 16-0416 MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,711.12	
26 05 19 16-0417 MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,037.27	
26 05 19 16-0418 MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,410.99	
26 05 19 16-0419 MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,712.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0420 MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,742.24	
26 05 19 16-0421 MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	800.69	
26 05 19 16-0422 MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,001.34	
26 05 19 16-0423 MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,252.54	
26 05 19 16-0424 MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,782.14	
26 05 19 16-0425 MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,461.45	
26 05 19 16-0426 MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,299.34	
26 05 19 16-0427 MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,759.88	
26 05 19 16-0428 MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,707.12	
26 05 19 16-0429 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,642.48	
26 05 19 16-0430 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,567.80	
26 05 19 16-0431 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,052.54	
26 05 19 16-0432 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,845.85	
26 05 19 16-0433 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,793.27	
26 05 19 16-0434 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,826.07	
26 05 19 16-0435 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,017.77	
26 05 19 16-0436 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,129.31	
26 05 19 16-0437 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,854.22	
26 05 19 16-0438 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	27,590.73	
26 05 19 16-0439 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	44,298.55	
26 05 19 16-0440 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,440.41	
26 05 19 16-0441 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,784.54	
26 05 19 16-0442 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,962.81	
26 05 19 16-0443 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,608.69	
26 05 19 16-0444 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,135.19	
26 05 19 16-0445 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,297.07	
26 05 19 16-0446 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,668.19	
26 05 19 16-0447 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,751.12	
26 05 19 16-0448 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	29,472.75	
26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors <small>(26 05 19 16-0309)</small>		
26 05 19 16-0450 ACTHH, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0451 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,899.29	820.96
26 05 19 16-0452 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,342.31	930.42
26 05 19 16-0453 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,817.08	985.15
26 05 19 16-0454 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,198.34	1,368.27
26 05 19 16-0455 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,504.35	1,532.19
26 05 19 16-0456 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,680.18	1,697.61
26 05 19 16-0457 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,390.91	1,861.54
26 05 19 16-0458 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,065.25	1,532.19
26 05 19 16-0459 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,315.10	1,697.61
26 05 19 16-0460 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,772.88	1,916.40
26 05 19 16-0461 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,759.77	2,079.49
26 05 19 16-0462 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,027.82	1,697.61
26 05 19 16-0463 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,610.45	1,916.40
26 05 19 16-0464 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,383.18	2,134.64
26 05 19 16-0465 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,830.82	2,299.65
26 05 19 16-0466 ACTHH, Stranded <small>(26 05 19 16-0449)</small>		
26 05 19 16-0467 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,665.86	1,971.54
26 05 19 16-0468 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,335.63	2,243.00
26 05 19 16-0469 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,034.26	2,189.23
26 05 19 16-0470 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,308.83	2,460.97
26 05 19 16-0471 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,283.18	2,736.54
26 05 19 16-0472 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,411.12	3,007.18
26 05 19 16-0473 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,793.40	3,281.24
26 05 19 16-0474 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,647.39	2,626.25
26 05 19 16-0475 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,081.41	2,898.82
26 05 19 16-0476 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,075.30	3,174.66
26 05 19 16-0477 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	19,806.66	3,446.53
26 05 19 16-0478 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,474.01	3,718.13
26 05 19 16-0479 HCFC, Solid <small>(26 05 19 16-0449)</small>		
26 05 19 16-0480 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,686.81	1,368.27

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,134.48	1,537.39
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,736.95	1,689.27
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,672.77	1,537.39
26 05 19 16-0484 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,089.19	1,689.27
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,943.61	1,927.20
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,955.67	1,689.27
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,605.70	1,927.20
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,361.65	2,137.92
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0449)		
26 05 19 16-0490 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,034.98	1,368.27
26 05 19 16-0491 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,511.59	1,537.39
26 05 19 16-0492 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,340.26	1,689.27
26 05 19 16-0493 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,643.98	1,805.15
26 05 19 16-0494 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,098.12	1,913.66
26 05 19 16-0495 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,637.96	1,537.39
26 05 19 16-0496 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,209.21	1,689.27
26 05 19 16-0497 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,505.13	1,927.20
26 05 19 16-0498 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,232.43	2,079.49
26 05 19 16-0499 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,529.37	2,243.00
26 05 19 16-0500 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,601.81	2,408.98
26 05 19 16-0501 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	15,653.97	2,571.94
26 05 19 16-0502 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,328.79	1,689.27
26 05 19 16-0503 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,100.51	1,927.20
26 05 19 16-0504 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,818.18	2,137.92
26 05 19 16-0505 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	11,679.56	2,355.06
26 05 19 16-0506 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	14,090.12	2,519.80
26 05 19 16-0507 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	18,263.11	2,682.90
26 05 19 16-0508 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	23,275.35	2,844.63
26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0449)		
26 05 19 16-0510 MLF 2 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,007.79	1,368.27
26 05 19 16-0511 MLF 2 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,441.08	1,537.39
26 05 19 16-0512 MLF 2 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,277.90	1,689.27
26 05 19 16-0513 MLF 3 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	4,751.53	1,537.39
26 05 19 16-0514 MLF 3 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,146.56	1,689.27
26 05 19 16-0515 MLF 3 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,455.59	1,927.20
26 05 19 16-0516 MLF 4 Conductors, #14 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	5,868.73	1,689.27
26 05 19 16-0517 MLF 4 Conductors, #12 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	6,491.84	1,927.20
26 05 19 16-0518 MLF 4 Conductors, #10 AWG, Tpe MC, Solid Or Stranded, Aluminum Armored Cable.....	8,818.18	2,137.92
26 05 19 16-0519 FPLP Solid TFN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0520 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	3,963.24	1,039.89
26 05 19 16-0521 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,511.87	1,204.08
26 05 19 16-0522 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	5,533.01	1,368.27
26 05 19 16-0523 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	6,328.51	1,532.46
26 05 19 16-0524 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,520.87	1,204.08
26 05 19 16-0525 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,317.20	1,368.27
26 05 19 16-0526 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	6,587.65	1,532.46
26 05 19 16-0527 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	7,471.45	1,696.65
26 05 19 16-0528 FPLP Solid THHN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0529 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable.....	5,036.81	1,368.27
26 05 19 16-0530 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable.....	6,174.01	1,532.46
26 05 19 16-0531 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable.....	8,049.40	1,696.65
26 05 19 16-0532 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable.....	9,281.43	1,860.84
26 05 19 16-0533 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable.....	6,260.66	1,532.46
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable.....	7,574.45	1,696.65
26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	4,257.53	1,039.89
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,757.68	1,532.46
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	5,200.18	1,204.08
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable.....	6,116.68	1,368.27
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	8,406.63	1,696.65
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,097.37	1,423.00
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	7,476.86	1,641.93
26 05 19 16-0543 Armored Cable Connectors (26 05 19 16-0449)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0544 EA 3/4" Armored Cable Connector.....	8.11	3.00
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	
26 05 19 16-0545 EA 1" Armored Cable Connector.....	10.82	4.00
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.00	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	13.58	5.00
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,091.87	200.40
For EPR Insulation, Add	51.27	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	119.62	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,223.52	221.90
For EPR Insulation, Add	52.26	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	121.94	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,508.79	277.41
For EPR Insulation, Add	76.30	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	178.03	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,086.41	441.30
For EPR Insulation, Add	125.44	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	292.69	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,905.41	529.56
For EPR Insulation, Add	210.78	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	491.83	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,001.17	614.82
For EPR Insulation, Add	318.89	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	744.08	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,568.50	703.71
For EPR Insulation, Add	366.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	855.13	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,828.11	792.59
For EPR Insulation, Add	517.92	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,208.49	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,290.65	882.74
For EPR Insulation, Add	699.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,632.86	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,827.05	995.87
For EPR Insulation, Add	874.00	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,039.34	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,699.67	1,104.38
For EPR Insulation, Add	1,098.64	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,563.49	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,903.02	1,232.90
For EPR Insulation, Add	1,372.88	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,203.39	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,577.68	1,370.79
For EPR Insulation, Add	1,567.83	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,658.26	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,500.25	1,503.43
For EPR Insulation, Add	1,649.96	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,849.90	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,386.94	1,652.71
For EPR Insulation, Add	2,026.70	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,728.97	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,552.83	1,752.09
For EPR Insulation, Add	2,295.33	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,355.76	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,084.72	1,958.25
For EPR Insulation, Add	2,618.85	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	6,110.66	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	26,473.13	2,177.89
For EPR Insulation, Add	3,070.86	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,165.34	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	31,112.51	2,265.91
For EPR Insulation, Add	3,691.76	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	8,614.10	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	51,202.26	2,353.79
For EPR Insulation, Add	6,592.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	15,382.98	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	64,776.30	2,515.06
For EPR Insulation, Add	8,553.80	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	19,958.87	
26 05 19 16-0569 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,912.63	449.80
26 05 19 16-0570 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,419.89	500.06
26 05 19 16-0571 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,049.56	600.57
26 05 19 16-0572 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,620.54	699.83
26 05 19 16-0573 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,525.54	749.35
26 05 19 16-0574 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	596.29	250.03
26 05 19 16-0575 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	743.52	275.04
26 05 19 16-0576 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	792.33	200.52
26 05 19 16-0577 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	989.38	239.03
26 05 19 16-0578 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,234.61	300.67
26 05 19 16-0579 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,750.85	396.30
26 05 19 16-0580 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,409.72	478.56
26 05 19 16-0581 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,219.62	565.57
26 05 19 16-0582 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,860.04	640.20
26 05 19 16-0583 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,634.42	716.96
26 05 19 16-0584 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,548.46	809.10
26 05 19 16-0585 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,457.14	885.98
26 05 19 16-0586 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,350.30	979.12
26 05 19 16-0587 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,776.25	1,035.63
26 05 19 16-0588 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,502.03	1,165.14
26 05 19 16-0589 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,374.56	1,239.53
26 05 19 16-0590 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,328.42	1,403.80
26 05 19 16-0591 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,433.63	1,553.56
26 05 19 16-0592 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	18,462.48	1,596.07
26 05 19 16-0593 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	22,027.86	1,688.58
26 05 19 16-0594 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	27,465.71	1,987.12
26 05 19 16-0595 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	42,510.55	2,353.79
26 05 19 16-0596 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	50,991.50	2,841.85
26 05 19 16-0597 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,175.96	600.57
26 05 19 16-0598 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,466.44	699.83
26 05 19 16-0599 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,841.89	800.72
26 05 19 16-0600 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,490.84	899.73
26 05 19 16-0601 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,926.95	1,000.12
26 05 19 16-0602 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,754.23	1,099.13
26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0309)		
26 05 19 16-0604 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,123.07	358.42
26 05 19 16-0605 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,321.75	416.77
26 05 19 16-0606 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,717.23	534.99
26 05 19 16-0607 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,049.70	597.41
26 05 19 16-0608 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,350.25	673.07
26 05 19 16-0609 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,646.00	742.88
26 05 19 16-0610 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,075.97	838.39
26 05 19 16-0611 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,401.33	924.96
26 05 19 16-0612 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,871.41	1,016.83
26 05 19 16-0613 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,600.65	1,105.79
26 05 19 16-0614 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,853.42	1,194.72
26 05 19 16-0615 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,504.41	1,328.85
26 05 19 16-0616 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,064.47	1,462.94
26 05 19 16-0617 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,310.14	1,704.16
26 05 19 16-0618 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,191.37	1,868.24
26 05 19 16-0619 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,400.24	1,937.49
26 05 19 16-0620 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,170.90	2,350.29
26 05 19 16-0621 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,341.34	443.93
26 05 19 16-0622 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,509.52	500.06
26 05 19 16-0623 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,857.65	615.20
26 05 19 16-0624 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,319.31	754.10
26 05 19 16-0625 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,854.88	887.74
26 05 19 16-0626 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,264.00	1,000.50
26 05 19 16-0627 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,679.46	1,111.26
26 05 19 16-0628 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,150.69	1,212.40
26 05 19 16-0629 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,469.92	1,290.28
26 05 19 16-0630 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,970.19	1,380.55
26 05 19 16-0631 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,796.88	1,479.56
26 05 19 16-0632 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,128.36	1,598.33
26 05 19 16-0633 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,850.77	1,742.96
26 05 19 16-0634 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,750.89	2,000.25
26 05 19 16-0635 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,747.31	2,105.01
26 05 19 16-0636 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,570.98	2,219.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0637 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit.....	9,960.24	2,358.55
26 05 19 16-0638 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,313.50	3,305.41
26 05 19 16-0639 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,579.16	500.06
26 05 19 16-0640 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,960.55	615.07
26 05 19 16-0641 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,433.00	755.09
26 05 19 16-0642 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,986.93	882.74
26 05 19 16-0643 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,373.24	995.87
26 05 19 16-0644 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,795.02	1,104.38
26 05 19 16-0645 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,328.30	1,212.40
26 05 19 16-0646 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,692.19	1,290.28
26 05 19 16-0647 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,235.25	1,379.67
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,147.62	1,481.43
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,539.24	1,600.45
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,205.21	1,738.96
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,290.69	2,000.25
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,920.49	2,099.38
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,192.00	2,219.27
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,635.13	2,351.42
26 05 19 16-0655 Non-Metallic Sheathed Cable <small>(26 05 19 16-0309)</small>		
26 05 19 16-0656 Indoor Installation <small>(26 05 19 16-0655)</small>		
<i>Note: For NM, NM-B, NMC-B and NMS-B.</i>		
26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,627.38	950.00
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>356.24</i>	
26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,221.58	1,150.14
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>431.32</i>	
26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,988.80	1,272.65
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>477.25</i>	
26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,998.59	1,080.13
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>384.42</i>	
26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,823.36	1,199.90
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>449.98</i>	
26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,624.01	1,340.16
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>502.56</i>	
26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,602.63	1,200.52
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>450.21</i>	
26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,812.90	1,400.42
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>525.16</i>	
26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,613.95	1,600.20
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>600.07</i>	
26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,181.69	1,437.67
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>511.94</i>	
26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,451.33	1,737.72
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>618.83</i>	
26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,364.86	1,637.70
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>581.32</i>	
26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	8,151.15	1,975.24
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>703.21</i>	
26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	14,788.65	2,175.26
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>773.53</i>	
26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	16,974.16	2,362.80
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>		
	<i>843.85</i>	
26 05 19 16-0672 Direct Burial Cable <small>(26 05 19 16-0655)</small>		
<i>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</i>		
26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,952.35	
26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,900.13	
26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,778.09	
26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,013.39	
26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,193.93	
26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,237.83	
26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,941.00	
26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,977.47	
26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,869.32	
26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	11,886.93	
26 05 19 16-0683 SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper	4,094.88	1,204.49
26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper	5,358.00	1,368.27
26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper	6,927.18	1,532.19
26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper	8,683.91	1,642.61
26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper	9,447.77	1,697.61
26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper	11,836.09	1,861.54

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper	12,891.13	1,916.40
26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper	15,243.31	2,079.49
26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper	16,221.05	2,189.23
26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper	17,388.74	2,299.65
26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper	18,667.71	2,408.98
26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper	23,178.27	2,736.54
26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper	27,876.33	3,067.94
26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper	33,939.10	3,455.29
26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper	41,319.21	3,843.47
26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper	46,185.82	4,289.25
26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0655)		
26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum	4,388.23	1,537.39
26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum	4,923.46	1,689.27
26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum	5,469.36	1,849.08
26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum	5,715.85	1,927.20
26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum	6,807.29	2,280.50
26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum	7,200.86	2,400.49
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum	8,467.09	2,736.54
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum	8,942.73	2,880.62
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum	10,297.04	3,040.56
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum	10,103.64	3,257.85
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum	10,647.59	3,420.68
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum	11,419.55	3,581.85
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum	12,178.21	3,800.78
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum	12,976.87	4,108.92
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum	13,626.17	4,275.84
26 05 19 16-0716 SER Cable Copper, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0717 MLF 6-6-6 Cable SER Copper	13,718.10	1,971.54
26 05 19 16-0718 MLF 4-4-4 Cable SER Copper	15,064.15	2,134.64
26 05 19 16-0719 MLF 3-3-3 Cable SER Copper	18,853.52	2,408.98
26 05 19 16-0720 MLF 2-2-2 Cable SER Copper	21,687.15	2,626.25
26 05 19 16-0721 MLF 1-1-1 Cable SER Copper	25,319.36	3,007.18
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper	31,007.37	3,446.53
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper	39,320.21	3,718.13
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper	45,523.38	4,158.85
26 05 19 16-0725 SER Cable Aluminum, 4 Conductor (26 05 19 16-0655)		
26 05 19 16-0726 MLF 8-8-8 Cable SER Aluminum	5,697.32	1,840.18
26 05 19 16-0727 MLF 6-6-6 Cable SER Aluminum	6,185.98	1,971.54
26 05 19 16-0728 MLF 4-4-4 Cable SER Aluminum	6,871.35	2,134.64
26 05 19 16-0729 MLF 2-2-2 Cable SER Aluminum	8,609.77	2,626.25
26 05 19 16-0730 MLF 1-1-1 Cable SER Aluminum	10,252.15	3,007.18
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum	11,618.21	3,446.53
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum	12,898.05	3,718.13
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum	14,629.84	4,158.85
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum	16,548.56	4,634.19
26 05 19 16-0735 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011)		
Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0736 ACSR Cable (26 05 19 16-0735)		
26 05 19 16-0737 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,689.77	613.56
26 05 19 16-0738 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,768.86	637.08
26 05 19 16-0739 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,862.75	661.61
26 05 19 16-0740 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	1,942.65	685.57
26 05 19 16-0741 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,065.25	708.82
26 05 19 16-0742 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,366.07	803.52
26 05 19 16-0743 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,676.59	896.09
26 05 19 16-0744 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,005.20	989.94
26 05 19 16-0745 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	3,723.26	1,272.18
26 05 19 16-0746 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	4,257.05	1,459.32
26 05 19 16-0747 All Aluminum Conductors (26 05 19 16-0735)		
26 05 19 16-0748 MLF 795.0 ACSR Conductor Aluminum	32,001.65	11,950.15
26 05 19 16-0749 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0750 Bare Stranded Conductor (26 05 19 16-0749)		
26 05 19 16-0751 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,548.34	519.84
26 05 19 16-0752 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,815.99	566.63
26 05 19 16-0753 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,085.15	613.98
26 05 19 16-0754 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,558.50	661.61
26 05 19 16-0755 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	3,115.07	709.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0756 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,468.73	850.86
26 05 19 16-0757 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,136.70	945.13
26 05 19 16-0758 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,863.62	1,037.71
26 05 19 16-0759 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,870.87	1,230.79
26 05 19 16-0760 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,554.70	1,415.08
26 05 19 16-0761 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	10,251.58	1,603.77
26 05 19 16-0762 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,982.66	1,890.13
26 05 19 16-0763 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	13,277.91	1,989.65
26 05 19 16-0764 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,595.23	2,083.64
26 05 19 16-0765 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,345.20	2,169.12
26 05 19 16-0766 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	21,398.60	2,261.69
26 05 19 16-0767 Insulated Stranded Conductor (26 05 19 16-0749)		
26 05 19 16-0768 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,675.90	519.84
26 05 19 16-0769 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,980.58	566.63
26 05 19 16-0770 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,410.06	613.98
26 05 19 16-0771 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,620.01	661.61
26 05 19 16-0772 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,208.90	709.39
26 05 19 16-0773 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,333.22	850.86
26 05 19 16-0774 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,123.17	945.13
26 05 19 16-0775 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,052.30	1,037.71
26 05 19 16-0776 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,291.46	1,230.79
26 05 19 16-0777 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,747.06	1,415.08
26 05 19 16-0778 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	10,314.58	1,603.77
26 05 19 16-0779 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,597.16	1,890.13
26 05 19 16-0780 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,298.32	1,989.65
26 05 19 16-0781 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,684.98	2,083.64
26 05 19 16-0782 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,590.48	2,169.12
26 05 19 16-0783 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	19,793.35	2,261.69
26 05 19 16-0784 Bare Solid Conductor (26 05 19 16-0749)		
26 05 19 16-0785 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,548.34	519.84
26 05 19 16-0786 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,085.15	613.98
26 05 19 16-0787 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,558.50	661.61
26 05 19 16-0788 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,076.30	709.39
26 05 23 Control-Voltage Electrical Power Cables (26 05)		
26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)		
26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)		
Note: For surface or conduit installation.		
26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable.....	539.28	159.40
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable.....	615.05	167.90
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable.....	666.42	177.52
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable.....	797.27	185.03
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable.....	835.69	193.78
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable.....	919.20	201.83
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable.....	991.78	209.90
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable.....	1,076.37	218.28
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable.....	1,157.57	224.83
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable.....	585.07	159.40
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable.....	696.74	167.90
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable.....	796.02	177.52
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable.....	850.77	185.03
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable.....	943.16	193.78
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable.....	968.55	201.83
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable.....	1,067.09	209.90
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable.....	1,257.05	218.28
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable.....	1,380.43	224.83
26 05 26 Grounding and Bonding for Electrical Systems (26 05)		
26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)		
26 05 26 00-0002 Single Conductor (26 05 26 00-0001)		
26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor.....	680.84	242.62
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor.....	912.78	242.62
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor.....	1,145.71	292.26
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor.....	1,602.01	292.26
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor.....	2,173.88	352.91
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor.....	3,460.13	352.91
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor.....	4,015.38	424.60
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor.....	4,713.75	424.60
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor.....	6,642.89	534.88

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	8,208.38	534.88
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	8,684.33	711.34
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	11,192.73	711.34
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	11,212.64	821.63
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	15,175.44	821.63
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	20,757.33	1,014.63
26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,323.10	330.86
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,395.38	330.86
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,802.32	330.86
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	2,032.31	573.48
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,775.05	573.48
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,955.14	573.48
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,799.93	1,003.59
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,875.56	1,003.59
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,916.72	1,003.59
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	8,275.18	1,003.59
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	9,791.32	1,312.39
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	11,886.11	1,312.39
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	13,877.85	1,312.39
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	16,171.36	2,040.28
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	21,208.25	2,040.28
26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	680.84	242.62
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	912.78	242.62
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,145.71	292.26
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,602.01	292.26
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	2,173.88	352.91
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,460.13	352.91
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,713.75	424.60
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor	8,684.33	562.45
26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)		
26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor	644.45	292.26
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor	696.42	292.26
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor	776.11	352.91
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor	934.30	352.91
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,039.98	424.60
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor	1,190.57	424.60
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor	1,349.76	534.88
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor	1,530.84	534.88
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor	1,830.72	711.34
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor	2,023.57	711.34
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor	2,319.99	821.63
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor	2,579.54	821.63
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor	3,056.00	1,014.63
26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor	644.45	292.26
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor	696.42	292.26
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor	776.11	352.91
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor	934.30	352.91
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor	995.47	562.45
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor	1,190.57	562.45
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor	1,239.51	534.88
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	1,308.83	534.88
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	1,830.72	711.34
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	2,023.57	711.34
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	2,319.99	821.63
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	2,579.54	821.63
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	3,056.00	1,014.63
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.02	0.94
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.34	1.04
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.94	1.19
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.98	1.22
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.17	1.27
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.10 20.52	34.21
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.81 24.63	41.05
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	280.54 24.63	41.05
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	336.51 24.63	41.05
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	299.27 30.79	44.47
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	380.89 30.79	44.47
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	451.82 30.79	44.47
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.19 33.86	56.44
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	462.30 41.05	68.41
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.42 42.76	75.26
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	238.25 52.63	75.26
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	336.36 62.20	116.31
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	483.65 76.02	116.31
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods 26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods 26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods 26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	113.21 117.54 135.05 132.98 138.40 160.28	102.62 102.62 102.62 102.62 102.62 102.62
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft 26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft 26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft	302.15 370.91 549.93	102.62 102.62 102.62
26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate. 26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate. 26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate. 26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	240.57 250.03 707.07 716.53	
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover. 26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover. 26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover. 26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover. 26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover 26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	667.42 788.72 1,491.40 636.56 750.85 1,428.89 345.13 368.93 390.41 258.81 393.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	713.92	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	957.86	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	567.74	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	838.38	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	896.04	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	1,091.57	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	468.73	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	840.92	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron grate, heavy duty.	906.62	
26 05 26 00-0132 Polymer Concrete Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well.....	447.40	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well.....	490.26	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well.....	492.63	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	539.74	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well.....	539.55	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well.....	591.35	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well.....	717.79	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	788.35	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	166.16	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	230.78	
26 05 26 00-0144 Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0145 Bronze Ground Rod Clamp (26 05 26 00-0144)		
26 05 26 00-0146 EA 1/2" Bronze Ground Rod Clamp	26.66	15.46
26 05 26 00-0147 EA 5/8" Bronze Ground Rod Clamp	27.76	15.46
26 05 26 00-0148 EA 3/4" Bronze Ground Rod Clamp	29.31	15.46
26 05 26 00-0149 Bronze Pipe Clamps (26 05 26 00-0144)		
26 05 26 00-0150 EA 1/2" To 1" Bronze Pipe Ground Clamps.....	36.43	25.72
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe.....	45.96	30.79
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe.....	66.33	35.99
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe.....	81.61	46.25
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe.....	124.10	66.77
26 05 26 00-0155 Grounding Fittings (26 05 26 00-0144)		
26 05 26 00-0156 Embedded Fittings (26 05 26 00-0155)		
26 05 26 00-0157 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	179.36	
26 05 26 00-0158 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded.....	189.26	
26 05 26 00-0159 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded.....	206.84	
26 05 26 00-0160 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	179.64	
26 05 26 00-0161 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	215.28	
26 05 26 00-0162 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	252.36	
26 05 26 00-0163 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	284.03	
26 05 26 00-0164 Ground Rod Receptacle (26 05 26 00-0155)		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle	385.64	142.30
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle	402.33	146.31
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle	419.46	150.29
26 05 26 00-0168 Ground Kits For Circuit Breaker Panels (26 05 26 00-0155)		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit	87.07	34.21
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit	83.81	34.21
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit	95.40	34.21
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit	94.59	34.21
26 05 26 00-0173 Insulated Grounding Bars (26 05 26 00-0144)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0174 EA 1/2" x 4" x 10" Insulated Ground Bar <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	351.78 61.57	34.35
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20" <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	367.87 61.57	34.35
26 05 26 00-0176 Ground Conductor Bonding <small>(26 05 26)</small>		
26 05 26 00-0177 Ground Conductor Bonding <small>(26 05 26 00-0176)</small>		
26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel..... <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	152.76	
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel..... <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	166.44	
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel..... <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	180.12	
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	262.21	
26 05 26 00-0183 Tee, Wye Or Cross Cadweld <small>(26 05 26 00-0177)</small>		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross..... <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	173.28	
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	200.64	
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	248.54	
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross <i>Note: Includes molds, materials and all necessary tools to make connections.</i>	303.26	
26 05 26 00-0188 Grounding Equipment <small>(26 05 26)</small>		
26 05 26 00-0189 Special Grounding Equipment <small>(26 05 26 00-0188)</small>		
26 05 26 00-0190 Ground Reels And Ground Bus <small>(26 05 26 00-0189)</small>		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable	779.58	
26 05 26 00-0192 Copper Bars <small>(26 05 26 00-0189)</small>		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar	45.77	
26 05 26 00-0194 Phenolic Insulators <small>(26 05 26 00-0189)</small>		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.83 8.21	
26 05 26 00-0196 Grounding Studs <small>(26 05 26 00-0189)</small>		
26 05 26 00-0197 EA Ball Grounding Stud..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.60 12.25	
26 05 26 00-0198 Equipment Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0199 EA Switch Rating 30 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.56 8.21	
26 05 26 00-0200 EA Switch Rating 60 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.53 9.03	
26 05 26 00-0201 EA Switch Rating 100 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.43 10.26	
26 05 26 00-0202 EA Switch Rating 200 Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.15 12.32	
26 05 26 00-0203 Panelboard Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0204 EA Panelboard Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.13 10.26	10.26
26 05 26 00-0205 Circuit Breaker Ground Bar Kits <small>(26 05 26 00-0189)</small>		
26 05 26 00-0206 EA 3 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.72 6.16	6.16
26 05 26 00-0207 EA 4 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.20 6.16	6.16
26 05 26 00-0208 EA 7 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.06 6.16	6.16
26 05 26 00-0209 EA 12 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.36 6.98	6.97
26 05 26 00-0210 EA 20 Circuit, Ground Bar Kit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.33 7.80	7.80

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0211 EA 24 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.62 8.62	8.62
26 05 26 00-0212 EA 30 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.09 9.85	9.85
26 05 26 00-0213 EA 54 Circuit, Ground Bar Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.17 11.50	11.49
26 05 26 00-0214 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.02 8.62	8.62
26 05 26 00-0215 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.87 9.85	9.85
26 05 26 00-0216 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.12 11.50	11.49

26 05 29 Hangers and Supports for Electrical Systems (26 05)

26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)		
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001) Note: Excludes fasteners and accessories.		
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	22.52	7.50
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	23.79	7.50
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	10.66	2.82
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0009 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	38.04	7.50
26 05 29 00-0010 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	41.81	7.50
26 05 29 00-0011 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	54.82	7.50
26 05 29 00-0012 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	62.36	7.50
26 05 29 00-0013 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	26.18	2.83
26 05 29 00-0014 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	29.95	2.83
26 05 29 00-0015 14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	54.31	7.50
26 05 29 00-0017 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	87.38	7.50
26 05 29 00-0018 LF >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	42.45	2.83
26 05 29 00-0019 12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020 12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	23.74	7.50
26 05 29 00-0022 EA Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	23.33	7.50
26 05 29 00-0023 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	23.06	7.50
26 05 29 00-0024 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	26.24	7.50
26 05 29 00-0025 EA >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	25.41	7.50
26 05 29 00-0026 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	24.87	7.50
26 05 29 00-0027 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	11.88	2.82
26 05 29 00-0028 LF >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	11.47	2.82
26 05 29 00-0029 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	11.20	2.82
26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	43.06	7.50
26 05 29 00-0032 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	49.56	7.50
26 05 29 00-0033 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	64.86	7.50
26 05 29 00-0034 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	77.87	7.50
26 05 29 00-0035 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	31.20	2.82
26 05 29 00-0036 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	37.70	2.82
26 05 29 00-0037 Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038 Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings.....	5.55	0.68
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings.....	15.36	6.85
26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel.....	23.44	6.85
26 05 29 00-0044 Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0045 Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.88	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	5.84	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	6.93	
26 05 29 00-0049 Stainless Steel Flat Splice Plate, Unistrut Channel Fittings <small>(26 05 29 00-0044)</small>		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	18.49	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	27.33	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	34.82	
26 05 29 00-0053 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0054 Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	5.71	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	4.92	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	7.88	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	7.78	
26 05 29 00-0059 Stainless Steel 90 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0053)</small>		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	10.74	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	13.33	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	11.36	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	15.99	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	14.64	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	26.72	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	15.38	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	22.14	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings <small>(26 05 29 00-0068)</small>		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting.....	10.90	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting.....	4.41	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting.....	4.82	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings <small>(26 05 29 00-0071)</small>		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting.....	21.99	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting.....	11.16	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings <small>(26 05 29 00-0077)</small>		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	42.43	
26 05 29 00-0082 Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0083 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.27	2.06
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.29	2.06
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	5.38	2.06
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.88	2.74
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.35	2.74
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.40	2.74
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.11	3.42
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.53	3.42
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.93	3.42
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.08	3.42
26 05 29 00-0094 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
Note: Includes hex screw and nut.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0095 EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.86	2.06
26 05 29 00-0096 EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.84	2.06
26 05 29 00-0097 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.83	2.06
26 05 29 00-0098 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.50	2.74
26 05 29 00-0099 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.24	2.74
26 05 29 00-0100 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	16.96	2.74
26 05 29 00-0101 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.38	3.42
26 05 29 00-0102 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.82	3.42
26 05 29 00-0103 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.87	3.42
26 05 29 00-0104 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.74	3.42
26 05 29 00-0105 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0082)</small>		
Note: Includes hex screw and nut.		
26 05 29 00-0106 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.46	2.06
26 05 29 00-0107 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.85	2.06
26 05 29 00-0108 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.25	2.06
26 05 29 00-0109 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.69	2.74
26 05 29 00-0110 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.48	2.74
26 05 29 00-0111 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.72	2.74
26 05 29 00-0112 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.23	3.42
26 05 29 00-0113 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.47	3.42
26 05 29 00-0114 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	32.30	3.42
26 05 29 00-0115 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	37.70	3.42
26 05 29 00-0116 Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0117 Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0118 EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting	37.23	12.50
26 05 29 00-0119 EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	27.83	12.50
26 05 29 00-0120 EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	36.28	12.50
26 05 29 00-0121 304 Stainless Steel Beam Clamps, Unistrut Channel Fittings <small>(26 05 29 00-0116)</small>		
26 05 29 00-0122 EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	54.23	12.50
26 05 29 00-0123 Square Washers For Unistrut Channel <small>(26 05 29 00-0037)</small>		
26 05 29 00-0124 Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0125 EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel.....	4.26	
26 05 29 00-0126 Stainless Steel Square Washers For Unistrut Channel <small>(26 05 29 00-0123)</small>		
26 05 29 00-0127 EA 1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	5.45	
26 05 29 00-0128 EA 1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	6.79	
26 05 29 00-0129 Strut Braces, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0130 EA 16" Diagonal Steel Bar Brace For Unistrut Channel	29.15	
26 05 29 00-0131 Trolley Hangers, Unistrut Channel Fittings <small>(26 05 29 00-0037)</small>		
26 05 29 00-0132 EA Steel Trolley Track Hanger For Unistrut Channel	36.57	
26 05 29 00-0133 Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		
26 05 29 00-0134 Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.		
26 05 29 00-0135 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	8.47	
26 05 29 00-0136 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	9.04	
26 05 29 00-0137 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	9.47	
26 05 29 00-0138 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	11.79	
26 05 29 00-0139 Stainless Steel Lock Nuts With Spring For Unistrut Channel <small>(26 05 29 00-0133)</small>		
Note: Includes hex bolt.		
26 05 29 00-0140 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.65	
26 05 29 00-0141 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	15.57	
26 05 29 00-0142 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	21.88	
26 05 29 00-0143 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	37.16	
26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0037)</small>		
Note: Includes hex bolt.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
<i>Note: Includes hex bolt.</i>		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	8.49	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	9.12	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	9.50	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	12.46	
26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(26 05 29 00-0144)</small>		
<i>Note: Includes hex bolt.</i>		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.60	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.71	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.81	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	36.21	
26 05 29 00-0155 Mounting Assemblies <small>(26 05 29)</small>		
26 05 29 00-0156 Galvanized Steel Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0157 Galvanized Steel Back Plate <small>(26 05 29 00-0156)</small>		
26 05 29 00-0158 EA 1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	450.21	82.10
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	115.03	27.36
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	290.71	68.41
26 05 29 00-0161 Aluminum Mounting Assemblies <small>(26 05 29 00-0155)</small>		
26 05 29 00-0162 Aluminum Back Plate <small>(26 05 29 00-0161)</small>		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate.....	352.13	102.62
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate.....	888.90	102.62
26 05 29 00-0165 Supports <small>(26 05 29)</small>		
26 05 29 00-0166 One Hole Steel Conduit Straps <small>(26 05 29 00-0165)</small>		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap	4.82	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap	4.86	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap	5.08	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap	5.24	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap	5.35	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		
26 05 29 00-0172 EA 2", One Hole Steel Conduit Strap	6.01	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>		
<i>For >50 To 100, Deduct</i>		
<i>For >100 To 250, Deduct</i>		
<i>For >250 To 500, Deduct</i>		
<i>For >500, Deduct</i>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap .....6.69		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.28	
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap .....6.92		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.28	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.07	
			<i>For >500, Deduct</i>	-1.57	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap .....8.03		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.68	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap .....8.92		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.33	
			<i>For >100 To 250, Deduct</i>	-0.67	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500, Deduct</i>	-1.77	
26 05 29 00-0177			One Hole Iron Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap .....4.93		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500, Deduct</i>	-1.37	
26 05 29 00-0179	EA		3/4", One Hole Iron Conduit Strap .....5.04		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.47	
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500, Deduct</i>	-1.38	
26 05 29 00-0180	EA		1", One Hole Iron Conduit Strap .....5.23		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.48	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500, Deduct</i>	-1.40	
26 05 29 00-0181	EA		1-1/4", One Hole Iron Conduit Strap .....5.69		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0182	EA		1-1/2", One Hole Iron Conduit Strap .....5.87		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500, Deduct</i>	-1.46	
26 05 29 00-0183	EA		2", One Hole Iron Conduit Strap .....7.04		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500, Deduct</i>	-1.58	
26 05 29 00-0184	EA		2-1/2", One Hole Iron Conduit Strap .....9.56		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.35	
			<i>For >100 To 250, Deduct</i>	-0.70	
			<i>For >250 To 500, Deduct</i>	-1.26	
			<i>For >500, Deduct</i>	-1.83	
26 05 29 00-0185	EA		3", One Hole Iron Conduit Strap .....11.66		
			<i>For Work In Restricted Working Space, Add</i>	1.31	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
			<i>For >50 To 100, Deduct</i>	-0.40	
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.42	
			<i>For >500, Deduct</i>	-2.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap 14.73		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.48	
<i>For >100 To 250, Deduct</i>	-0.96	
<i>For >250 To 500, Deduct</i>	-1.65	
<i>For >500, Deduct</i>	-2.35	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap 27.01		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.78	
<i>For >100 To 250, Deduct</i>	-1.57	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.58	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap 33.61		
<i>For Work In Restricted Working Space, Add</i>	1.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.95	
<i>For >100 To 250, Deduct</i>	-1.90	
<i>For >250 To 500, Deduct</i>	-3.07	
<i>For >500, Deduct</i>	-4.24	
26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165) 5.55		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap 5.55		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.52	
<i>For >250 To 500, Deduct</i>	-1.03	
<i>For >500, Deduct</i>	-1.54	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap 5.62		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.53	
<i>For >250 To 500, Deduct</i>	-1.04	
<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap 5.66		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.26	
<i>For >100 To 250, Deduct</i>	-0.53	
<i>For >250 To 500, Deduct</i>	-1.04	
<i>For >500, Deduct</i>	-1.55	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap 5.71		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.53	
<i>For >250 To 500, Deduct</i>	-1.04	
<i>For >500, Deduct</i>	-1.56	
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap 5.75		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.53	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.56	
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap 5.84		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.27	
<i>For >100 To 250, Deduct</i>	-0.54	
<i>For >250 To 500, Deduct</i>	-1.05	
<i>For >500, Deduct</i>	-1.57	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap 6.35		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.56	
<i>For >250 To 500, Deduct</i>	-1.09	
<i>For >500, Deduct</i>	-1.62	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap 6.46		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.57	
<i>For >250 To 500, Deduct</i>	-1.10	
<i>For >500, Deduct</i>	-1.63	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap 6.85		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.13	
<i>For >500, Deduct</i>	-1.67	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0199	EA		4", Two Hole Steel Conduit Strap	7.13	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.30	
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.15	
			<i>For >500, Deduct</i>	-1.70	
26 05 29 00-0200	EA		5", Two Hole Steel Conduit Strap	7.49	
			<i>For Work In Restricted Working Space, Add</i>	1.48	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.43	
			<i>For >50 To 100, Deduct</i>	-0.31	
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.18	
			<i>For >500, Deduct</i>	-1.74	
26 05 29 00-0201			Clamp Back Spacers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0202	EA		1/2" Conduit, Clamp Back Spacer.....	4.21	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.19	
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.74	
			<i>For >500, Deduct</i>	-1.11	
26 05 29 00-0203	EA		3/4" Conduit, Clamp Back Spacer.....	4.47	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.76	
			<i>For >500, Deduct</i>	-1.13	
26 05 29 00-0204	EA		1" Conduit, Clamp Back Spacer.....	4.70	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.20	
			<i>For >100 To 250, Deduct</i>	-0.41	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.15	
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer	5.61	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.23	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500, Deduct</i>	-1.25	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer	6.35	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.24	
			<i>For >100 To 250, Deduct</i>	-0.49	
			<i>For >250 To 500, Deduct</i>	-0.90	
			<i>For >500, Deduct</i>	-1.32	
26 05 29 00-0207	EA		2" Conduit, Clamp Back Spacer.....	7.12	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.26	
			<i>For >100 To 250, Deduct</i>	-0.53	
			<i>For >250 To 500, Deduct</i>	-0.96	
			<i>For >500, Deduct</i>	-1.40	
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer	10.26	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.34	
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500, Deduct</i>	-1.71	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer.....	14.01	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.44	
			<i>For >100 To 250, Deduct</i>	-0.87	
			<i>For >250 To 500, Deduct</i>	-1.48	
			<i>For >500, Deduct</i>	-2.09	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer	17.65	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 250, Deduct</i>	-1.05	
			<i>For >250 To 500, Deduct</i>	-1.75	
			<i>For >500, Deduct</i>	-2.45	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer.....	34.74	
			<i>For Work In Restricted Working Space, Add</i>	1.03	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
			<i>For >50 To 100, Deduct</i>	-0.95	
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-4.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0212 EA 5" Conduit, Clamp Back Spacer.....	63.60	
<i>For Work In Restricted Working Space, Add</i>	1.03	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	0.96	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.35	
<i>For >250 To 500, Deduct</i>	-5.20	
<i>For >500, Deduct</i>	-7.04	
26 05 29 00-0213 Conduit Clips <small>(26 05 29 00-0165)</small>		
Note: Push in or clip.		
26 05 29 00-0214 EA 1/2" Conduit Clip.....	5.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.41	
26 05 29 00-0215 EA 3/4" Conduit Clip.....	5.31	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.41	
26 05 29 00-0216 EA 1" Conduit Clip.....	5.24	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.94	
<i>For >500, Deduct</i>	-1.40	
26 05 29 00-0217 EA 1-1/4" Conduit Clip.....	5.42	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.20	
<i>For >50 To 100, Deduct</i>	-0.25	
<i>For >100 To 250, Deduct</i>	-0.49	
<i>For >250 To 500, Deduct</i>	-0.95	
<i>For >500, Deduct</i>	-1.42	
26 05 29 00-0218 Bolt And Nut Conduit Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219 EA 3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	6.60	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.47	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.60	
<i>For >250 To 500, Deduct</i>	-1.18	
<i>For >500, Deduct</i>	-1.75	
26 05 29 00-0220 EA 1" Bolt And Nut Conduit Clip (Minerallac 2B).....	6.78	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.47	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.61	
<i>For >250 To 500, Deduct</i>	-1.19	
<i>For >500, Deduct</i>	-1.77	
26 05 29 00-0221 EA 1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	7.22	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.55	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.27	
<i>For >500, Deduct</i>	-1.88	
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.33	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.55	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100 To 250, Deduct</i>	-0.66	
<i>For >250 To 500, Deduct</i>	-1.28	
<i>For >500, Deduct</i>	-1.90	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.02	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.55	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100 To 250, Deduct</i>	-0.69	
<i>For >250 To 500, Deduct</i>	-1.33	
<i>For >500, Deduct</i>	-1.96	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	8.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.64	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.74	
<i>For >250 To 500, Deduct</i>	-1.42	
<i>For >500, Deduct</i>	-2.10	
26 05 29 00-0225 EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....	9.27	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.64	
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 250, Deduct</i>	-0.77	
<i>For >250 To 500, Deduct</i>	-1.47	
<i>For >500, Deduct</i>	-2.16	
26 05 29 00-0226 EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....	15.72	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.81	
<i>For >50 To 100, Deduct</i>	-0.56	
<i>For >100 To 250, Deduct</i>	-1.13	
<i>For >250 To 500, Deduct</i>	-2.03	
<i>For >500, Deduct</i>	-2.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165) Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod .....3.87		
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.05	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod .....3.92		
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.05	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod .....4.06		
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.37	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.06	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod .....4.40		
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.92	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.74	
			For >500, Deduct	-1.10	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165) Note: For threaded rod, nut not required.		
26 05 29 00-0233	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) .....5.36		
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.22	
26 05 29 00-0234	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) .....5.27		
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.21	
26 05 29 00-0235	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) .....5.80		
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.26	
26 05 29 00-0236			T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95) .....9.19		
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.54	
			For >500, Deduct	-2.29	
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS) .....8.77		
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-2.25	
26 05 29 00-0239	EA		15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16) .....3.15		
			For >50 To 100, Deduct	-0.12	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.45	
			For >500, Deduct	-0.66	
26 05 29 00-0240	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512) .....23.44		
			For >50 To 100, Deduct	-0.65	
			For >100 To 250, Deduct	-1.31	
			For >250 To 500, Deduct	-2.10	
			For >500, Deduct	-2.89	
26 05 29 00-0241			Switch And Outlet Box Type Supports (26 05 29 00-0165)		
26 05 29 00-0242	EA		1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) .....6.28		
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.81	
			For >500, Deduct	-1.18	
26 05 29 00-0243	EA		1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500) .....5.41		
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.75	
			For >500, Deduct	-1.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	6.15	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100 To 250, Deduct</i>	-0.44	
<i>For >250 To 500, Deduct</i>	-0.80	
<i>For >500, Deduct</i>	-1.16	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	4.16	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.65	
<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI)	4.32	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.67	
<i>For >500, Deduct</i>	-0.98	
26 05 29 00-0247 Lighting Fixture Hanger <small>(26 05 29 00-0165)</small>		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.32	
<i>For >50 To 100, Deduct</i>	-0.29	
<i>For >100 To 250, Deduct</i>	-0.59	
<i>For >250 To 500, Deduct</i>	-1.16	
<i>For >500, Deduct</i>	-1.73	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	19.24	
<i>For >50 To 100, Deduct</i>	-0.62	
<i>For >100 To 250, Deduct</i>	-1.24	
<i>For >250 To 500, Deduct</i>	-2.13	
<i>For >500, Deduct</i>	-3.02	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	26.03	
<i>For >50 To 100, Deduct</i>	-0.79	
<i>For >100 To 250, Deduct</i>	-1.58	
<i>For >250 To 500, Deduct</i>	-2.64	
<i>For >500, Deduct</i>	-3.70	
26 05 29 00-0251 Rigid Steel Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0252 EA 1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.27	
<i>For >50 To 100, Deduct</i>	-0.23	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.91	
<i>For >500, Deduct</i>	-1.35	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0253 EA 3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.29	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.91	
<i>For >500, Deduct</i>	-1.35	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0254 EA 1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.38	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.47	
<i>For >250 To 500, Deduct</i>	-0.92	
<i>For >500, Deduct</i>	-1.36	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.87	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.20	
<i>For >500, Deduct</i>	-1.78	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.34	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.23	
<i>For >500, Deduct</i>	-1.83	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.39	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.24	
<i>For >500, Deduct</i>	-1.83	
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.10	
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100 To 250, Deduct</i>	-0.80	
<i>For >250 To 500, Deduct</i>	-1.54	
<i>For >500, Deduct</i>	-2.28	
<i>For Work In Restricted Working Space, Add</i>	2.05	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.52	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100 To 250, Deduct</i>	-0.82	
<i>For >250 To 500, Deduct</i>	-1.57	
<i>For >500, Deduct</i>	-2.32	
<i>For Work In Restricted Working Space, Add</i>	2.05	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	9.92	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-2.36	
For Work In Restricted Working Space, Add	2.05	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	10.07	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.85	
For >250 To 500, Deduct	-1.61	
For >500, Deduct	-2.38	
For Work In Restricted Working Space, Add	2.05	
26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel <small>(26 05 29 00-0165)</small>		
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.58	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.38	
For Work In Restricted Working Space, Add	1.23	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.54	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.38	
For Work In Restricted Working Space, Add	1.23	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	5.50	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.37	
For Work In Restricted Working Space, Add	1.23	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	7.25	
For >50 To 100, Deduct	-0.32	
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.23	
For >500, Deduct	-1.82	
For Work In Restricted Working Space, Add	1.64	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	8.07	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.29	
For >500, Deduct	-1.90	
For Work In Restricted Working Space, Add	1.64	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	8.12	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.29	
For >500, Deduct	-1.91	
For Work In Restricted Working Space, Add	1.64	
26 05 29 00-0269 "J" Type Conduit Hangers <small>(26 05 29 00-0165)</small>		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205)	23.83	
For >50 To 100, Deduct	-0.84	
For >100 To 250, Deduct	-1.67	
For >250 To 500, Deduct	-2.98	
For >500, Deduct	-4.30	
For Work In Restricted Working Space, Add	2.87	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207)	24.08	
For >50 To 100, Deduct	-0.84	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-4.32	
For Work In Restricted Working Space, Add	2.87	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210)	25.67	
For >50 To 100, Deduct	-0.92	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-3.29	
For >500, Deduct	-4.76	
For Work In Restricted Working Space, Add	3.28	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212)	25.94	
For >50 To 100, Deduct	-0.92	
For >100 To 250, Deduct	-1.84	
For >250 To 500, Deduct	-3.31	
For >500, Deduct	-4.78	
For Work In Restricted Working Space, Add	3.28	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215)	27.49	
For >50 To 100, Deduct	-1.00	
For >100 To 250, Deduct	-1.99	
For >250 To 500, Deduct	-3.60	
For >500, Deduct	-5.21	
For Work In Restricted Working Space, Add	3.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	28.50	
<i>For >50 To 100, Deduct</i>	-1.02	
<i>For >100 To 250, Deduct</i>	-2.04	
<i>For >250 To 500, Deduct</i>	-3.68	
<i>For >500, Deduct</i>	-5.31	
<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	44.35	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100 To 250, Deduct</i>	-2.90	
<i>For >250 To 500, Deduct</i>	-5.04	
<i>For >500, Deduct</i>	-7.17	
<i>For Work In Restricted Working Space, Add</i>	4.11	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	47.23	
<i>For >50 To 100, Deduct</i>	-1.56	
<i>For >100 To 250, Deduct</i>	-3.11	
<i>For >250 To 500, Deduct</i>	-5.42	
<i>For >500, Deduct</i>	-7.73	
<i>For Work In Restricted Working Space, Add</i>	4.52	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	50.90	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.37	
<i>For >250 To 500, Deduct</i>	-5.87	
<i>For >500, Deduct</i>	-8.37	
<i>For Work In Restricted Working Space, Add</i>	4.93	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	66.59	
<i>For >50 To 100, Deduct</i>	-2.08	
<i>For >100 To 250, Deduct</i>	-4.15	
<i>For >250 To 500, Deduct</i>	-7.05	
<i>For >500, Deduct</i>	-9.94	
<i>For Work In Restricted Working Space, Add</i>	4.93	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	73.10	
<i>For >50 To 100, Deduct</i>	-2.27	
<i>For >100 To 250, Deduct</i>	-4.54	
<i>For >250 To 500, Deduct</i>	-7.71	
<i>For >500, Deduct</i>	-10.87	
<i>For Work In Restricted Working Space, Add</i>	5.33	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	102.14	
<i>For >50 To 100, Deduct</i>	-3.07	
<i>For >100 To 250, Deduct</i>	-6.13	
<i>For >250 To 500, Deduct</i>	-10.23	
<i>For >500, Deduct</i>	-14.32	
<i>For Work In Restricted Working Space, Add</i>	6.16	
26 05 29 00-0282 Between Studs Box Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	8.73	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.17	
<i>For >500, Deduct</i>	-1.70	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	10.33	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100 To 250, Deduct</i>	-0.72	
<i>For >250 To 500, Deduct</i>	-1.29	
<i>For >500, Deduct</i>	-1.86	
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 29 00-0285 Hangers And Brackets <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.34	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.88	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB)	3.26	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO)	3.26	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.87	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	4.22	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	4.23	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.35	
<i>For >250 To 500, Deduct</i>	-0.66	
<i>For >500, Deduct</i>	-0.97	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0291	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	4.13	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500, Deduct</i>	-0.96	
26 05 29 00-0292	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	4.22	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0293	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	4.23	
			<i>For >50 To 100, Deduct</i>	-0.17	
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-0.97	
26 05 29 00-0294			Clips And Accessories <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.24	
			<i>For >50 To 100, Deduct</i>	-0.10	
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500, Deduct</i>	-0.57	
26 05 29 00-0296	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.28	
			<i>For >50 To 100, Deduct</i>	-0.10	
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500, Deduct</i>	-0.57	
26 05 29 00-0297	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.42	
			<i>For >50 To 100, Deduct</i>	-0.10	
			<i>For >100 To 250, Deduct</i>	-0.21	
			<i>For >250 To 500, Deduct</i>	-0.40	
			<i>For >500, Deduct</i>	-0.58	
26 05 29 00-0298	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.72	
			<i>For >50 To 100, Deduct</i>	-0.11	
			<i>For >100 To 250, Deduct</i>	-0.22	
			<i>For >250 To 500, Deduct</i>	-0.42	
			<i>For >500, Deduct</i>	-0.61	
26 05 29 00-0299			Wire Ties <small>(26 05 29 00-0165)</small>		
			Note: Per hundred (C).		
26 05 29 00-0300	C		3" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.13	
			<i>For Up To 0.1, Add</i>	28.55	
			<i>For >0.1 To 0.25, Add</i>	14.28	
			<i>For >0.25 To 0.75, Add</i>	7.14	
			<i>For >2.0, Deduct</i>	-2.86	
			<i>For UV Black, Add</i>	0.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 29 00-0301	C		4" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.31	
			<i>For Up To 0.1, Add</i>	28.55	
			<i>For >0.1 To 0.25, Add</i>	14.28	
			<i>For >0.25 To 0.75, Add</i>	7.14	
			<i>For >2.0, Deduct</i>	-2.86	
			<i>For UV Black, Add</i>	0.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 29 00-0302	C		4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.44	
			<i>For Up To 0.1, Add</i>	28.55	
			<i>For >0.1 To 0.25, Add</i>	14.28	
			<i>For >0.25 To 0.75, Add</i>	7.14	
			<i>For >2.0, Deduct</i>	-2.86	
			<i>For UV Black, Add</i>	0.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 29 00-0303	C		5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	33.49	
			<i>For Up To 0.1, Add</i>	28.55	
			<i>For >0.1 To 0.25, Add</i>	14.28	
			<i>For >0.25 To 0.75, Add</i>	7.14	
			<i>For >2.0, Deduct</i>	-2.86	
			<i>For UV Black, Add</i>	0.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 29 00-0304	C		6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties	34.78	
			<i>For Up To 0.1, Add</i>	29.79	
			<i>For >0.1 To 0.25, Add</i>	14.90	
			<i>For >0.25 To 0.75, Add</i>	7.45	
			<i>For >2.0, Deduct</i>	-2.98	
			<i>For UV Black, Add</i>	0.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 29 00-0305	C		8" Length, 18 LB Tensile Strength, Nylon Cable Ties	40.02	
			<i>For Up To 0.1, Add</i>	31.15	
			<i>For >0.1 To 0.25, Add</i>	15.58	
			<i>For >0.25 To 0.75, Add</i>	7.79	
			<i>For >2.0, Deduct</i>	-3.12	
			<i>For UV Black, Add</i>	1.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	38.06	
<i>For Up To 0.1, Add</i>	28.55	
<i>For >0.1 To 0.25, Add</i>	14.28	
<i>For >0.25 To 0.75, Add</i>	7.14	
<i>For >2.0, Deduct</i>	-2.86	
<i>For UV Black, Add</i>	1.43	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	39.37	
<i>For Up To 0.1, Add</i>	29.79	
<i>For >0.1 To 0.25, Add</i>	14.90	
<i>For >0.25 To 0.75, Add</i>	7.45	
<i>For >2.0, Deduct</i>	-2.98	
<i>For UV Black, Add</i>	1.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	40.78	
<i>For Up To 0.1, Add</i>	31.15	
<i>For >0.1 To 0.25, Add</i>	15.58	
<i>For >0.25 To 0.75, Add</i>	7.79	
<i>For >2.0, Deduct</i>	-3.12	
<i>For UV Black, Add</i>	1.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.35	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	55.79	
<i>For Up To 0.1, Add</i>	33.58	
<i>For >0.1 To 0.25, Add</i>	16.79	
<i>For >0.25 To 0.75, Add</i>	8.40	
<i>For >2.0, Deduct</i>	-3.36	
<i>For UV Black, Add</i>	3.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	57.80	
<i>For Up To 0.1, Add</i>	33.58	
<i>For >0.1 To 0.25, Add</i>	16.79	
<i>For >0.25 To 0.75, Add</i>	8.40	
<i>For >2.0, Deduct</i>	-3.36	
<i>For UV Black, Add</i>	3.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	42.19	
<i>For Up To 0.1, Add</i>	31.15	
<i>For >0.1 To 0.25, Add</i>	15.58	
<i>For >0.25 To 0.75, Add</i>	7.79	
<i>For >2.0, Deduct</i>	-3.12	
<i>For UV Black, Add</i>	1.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.35	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	40.41	
<i>For Up To 0.1, Add</i>	31.15	
<i>For >0.1 To 0.25, Add</i>	15.58	
<i>For >0.25 To 0.75, Add</i>	7.79	
<i>For >2.0, Deduct</i>	-3.12	
<i>For UV Black, Add</i>	1.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.35	
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	56.34	
<i>For Up To 0.1, Add</i>	33.58	
<i>For >0.1 To 0.25, Add</i>	16.79	
<i>For >0.25 To 0.75, Add</i>	8.40	
<i>For >2.0, Deduct</i>	-3.36	
<i>For UV Black, Add</i>	3.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	63.67	
<i>For Up To 0.1, Add</i>	35.68	
<i>For >0.1 To 0.25, Add</i>	17.84	
<i>For >0.25 To 0.75, Add</i>	8.92	
<i>For >2.0, Deduct</i>	-3.57	
<i>For UV Black, Add</i>	4.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	61.18	
<i>For Up To 0.1, Add</i>	31.15	
<i>For >0.1 To 0.25, Add</i>	15.58	
<i>For >0.25 To 0.75, Add</i>	7.79	
<i>For >2.0, Deduct</i>	-3.12	
<i>For UV Black, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.35	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	66.83	
<i>For Up To 0.1, Add</i>	33.58	
<i>For >0.1 To 0.25, Add</i>	16.79	
<i>For >0.25 To 0.75, Add</i>	8.40	
<i>For >2.0, Deduct</i>	-3.36	
<i>For UV Black, Add</i>	4.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.07	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	79.41	
<i>For Up To 0.1, Add</i>	35.68	
<i>For >0.1 To 0.25, Add</i>	17.84	
<i>For >0.25 To 0.75, Add</i>	8.92	
<i>For >2.0, Deduct</i>	-3.57	
<i>For UV Black, Add</i>	6.56	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties	109.71	
			<i>For Up To 0.1, Add</i>	38.06	
			<i>For >0.1 To 0.25, Add</i>	19.03	
			<i>For >0.25 To 0.75, Add</i>	9.52	
			<i>For >2.0, Deduct</i>	-3.81	
			<i>For UV Black, Add</i>	10.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.42	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties	106.66	
			<i>For Up To 0.1, Add</i>	38.06	
			<i>For >0.1 To 0.25, Add</i>	19.03	
			<i>For >0.25 To 0.75, Add</i>	9.52	
			<i>For >2.0, Deduct</i>	-3.81	
			<i>For UV Black, Add</i>	10.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.42	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties	127.98	
			<i>For Up To 0.1, Add</i>	39.84	
			<i>For >0.1 To 0.25, Add</i>	19.92	
			<i>For >0.25 To 0.75, Add</i>	9.96	
			<i>For >2.0, Deduct</i>	-3.98	
			<i>For UV Black, Add</i>	13.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.95	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties	146.83	
			<i>For Up To 0.1, Add</i>	41.77	
			<i>For >0.1 To 0.25, Add</i>	20.89	
			<i>For >0.25 To 0.75, Add</i>	10.44	
			<i>For >2.0, Deduct</i>	-4.18	
			<i>For UV Black, Add</i>	15.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.53	
26 05 29 00-0322	C		46" Length, 175 LB Tensile Strength, Nylon Cable Ties	197.72	
			<i>For Up To 0.1, Add</i>	45.07	
			<i>For >0.1 To 0.25, Add</i>	22.54	
			<i>For >0.25 To 0.75, Add</i>	11.27	
			<i>For >2.0, Deduct</i>	-4.51	
			<i>For UV Black, Add</i>	22.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.52	
26 05 29 00-0323	C		3/4" x 3/4" Self Adhesive Tie Mounts	45.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.85	
26 05 29 00-0324	C		1.1" x 1.1" Tie Mounts With Screw	89.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.69	
26 05 29 00-0325	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie	2.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.20	
26 05 29 00-0326	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie	2.10	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.17	
26 05 29 00-0327	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie	2.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.17	
26 05 29 00-0328	EA		15" Length x 3/4" Width, Velcro Grip Cable Tie	3.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.17	
26 05 29 00-0329	EA		180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	87.00	
			Note: Cut to length.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.28	
26 05 29 00-0330			Fastening Devices For Wireway And Conduit <small>(26 05 29)</small>		
			Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331			Toggle Bolts <small>(26 05 29 00-0330)</small>		
			Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332	EA		1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	10.54	
			<i>For >50 To 100, Deduct</i>	-1.01	
			<i>For >100 To 250, Deduct</i>	-2.03	
			<i>For >250 To 500, Deduct</i>	-3.54	
			<i>For >500, Deduct</i>	-5.05	
26 05 29 00-0333	EA		1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	10.82	
			<i>For >50 To 100, Deduct</i>	-1.04	
			<i>For >100 To 250, Deduct</i>	-2.08	
			<i>For >250 To 500, Deduct</i>	-3.63	
			<i>For >500, Deduct</i>	-5.18	
26 05 29 00-0334	EA		3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	11.37	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100 To 250, Deduct</i>	-2.14	
			<i>For >250 To 500, Deduct</i>	-3.74	
			<i>For >500, Deduct</i>	-5.34	
26 05 29 00-0335	EA		3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	11.65	
			<i>For >50 To 100, Deduct</i>	-1.10	
			<i>For >100 To 250, Deduct</i>	-2.20	
			<i>For >250 To 500, Deduct</i>	-3.83	
			<i>For >500, Deduct</i>	-5.47	
26 05 29 00-0336	EA		1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	11.92	
			<i>For >50 To 100, Deduct</i>	-1.12	
			<i>For >100 To 250, Deduct</i>	-2.25	
			<i>For >250 To 500, Deduct</i>	-3.92	
			<i>For >500, Deduct</i>	-5.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.33	
<i>For >50 To 100, Deduct</i>	-1.18	
<i>For >100 To 250, Deduct</i>	-2.36	
<i>For >250 To 500, Deduct</i>	-4.10	
<i>For >500, Deduct</i>	-5.84	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.84	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-4.20	
<i>For >500, Deduct</i>	-5.99	
26 05 29 00-0339 Machine Screws <small>(26 05 29 00-0330)</small>		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.13	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.61	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.53	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.17	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.61	
<i>For >250 To 500, Deduct</i>	-1.07	
<i>For >500, Deduct</i>	-1.53	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.98	
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 250, Deduct</i>	-0.77	
<i>For >250 To 500, Deduct</i>	-1.35	
<i>For >500, Deduct</i>	-1.92	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.13	
<i>For >50 To 100, Deduct</i>	-0.39	
<i>For >100 To 250, Deduct</i>	-0.78	
<i>For >250 To 500, Deduct</i>	-1.36	
<i>For >500, Deduct</i>	-1.94	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	5.07	
<i>For >50 To 100, Deduct</i>	-0.47	
<i>For >100 To 250, Deduct</i>	-0.94	
<i>For >250 To 500, Deduct</i>	-1.63	
<i>For >500, Deduct</i>	-2.33	
26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors <small>(26 05 29 00-0330)</small>		
Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.94	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100 To 250, Deduct</i>	-0.82	
<i>For >250 To 500, Deduct</i>	-1.42	
<i>For >500, Deduct</i>	-2.02	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.89	
<i>For >50 To 100, Deduct</i>	-0.41	
<i>For >100 To 250, Deduct</i>	-0.82	
<i>For >250 To 500, Deduct</i>	-1.41	
<i>For >500, Deduct</i>	-2.01	
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.80	
<i>For >50 To 100, Deduct</i>	-0.51	
<i>For >100 To 250, Deduct</i>	-1.02	
<i>For >250 To 500, Deduct</i>	-1.76	
<i>For >500, Deduct</i>	-2.50	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	8.60	
<i>For >50 To 100, Deduct</i>	-0.61	
<i>For >100 To 250, Deduct</i>	-1.22	
<i>For >250 To 500, Deduct</i>	-2.10	
<i>For >500, Deduct</i>	-2.98	
26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.72	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.64	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	3.78	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.12	
<i>For >500, Deduct</i>	-1.59	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.44	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100 To 250, Deduct</i>	-0.73	
<i>For >250 To 500, Deduct</i>	-1.27	
<i>For >500, Deduct</i>	-1.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0354			Hollow Wall Screw Anchors (26 05 29 00-0330)		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.19	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.95	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.25	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.95	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.35	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-0.96	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.95	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.80	
			For >500, Deduct	-1.14	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.08	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.81	
			For >500, Deduct	-1.16	
26 05 29 00-0360	EA		10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.12	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.16	
26 05 29 00-0361	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.16	
26 05 29 00-0362	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.33	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.18	
26 05 29 00-0363	EA		1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.40	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.84	
			For >500, Deduct	-1.19	
26 05 29 00-0364			Lead Screw Anchors (26 05 29 00-0330)		
			Note: Includes screw.		
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	5.15	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.67	
			For >500, Deduct	-2.38	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	6.11	
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.11	
			For >250 To 500, Deduct	-1.94	
			For >500, Deduct	-2.77	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	8.21	
			For >50 To 100, Deduct	-0.72	
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.57	
26 05 29 00-0368			Acoustical T-Bar Clips (26 05 29 00-0330)		
			Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip	7.63	
			For >50 To 100, Deduct	-0.63	
			For >100 To 250, Deduct	-1.25	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-3.09	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip	8.01	
			For >50 To 100, Deduct	-0.66	
			For >100 To 250, Deduct	-1.32	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-3.25	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip	8.66	
			For >50 To 100, Deduct	-0.70	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-2.43	
			For >500, Deduct	-3.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0372 Threaded Rod, Accessories And Attachments <small>(26 05 29)</small>		
26 05 29 00-0373 Threaded Rod And Rod Accessories <small>(26 05 29 00-0372)</small>		
26 05 29 00-0374 Carbon Steel Threaded Rod <small>(26 05 29 00-0373)</small>		
<i>Note: Includes plain finish.</i>		
26 05 29 00-0375 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.74	0.86
<i>For Galvanized, Add</i>		
	<i>0.81</i>	
<i>For Zinc Coated, Add</i>		
	<i>0.58</i>	
26 05 29 00-0376 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.05	0.91
<i>For Galvanized, Add</i>		
	<i>1.29</i>	
<i>For Zinc Coated, Add</i>		
	<i>0.92</i>	
26 05 29 00-0377 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.88	0.94
<i>For Galvanized, Add</i>		
	<i>2.00</i>	
<i>For Zinc Coated, Add</i>		
	<i>1.42</i>	
26 05 29 00-0378 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.01	0.97
<i>For Galvanized, Add</i>		
	<i>3.62</i>	
<i>For Zinc Coated, Add</i>		
	<i>2.58</i>	
26 05 29 00-0379 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.98	1.00
<i>For Galvanized, Add</i>		
	<i>3.98</i>	
<i>For Zinc Coated, Add</i>		
	<i>2.84</i>	
26 05 29 00-0380 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	16.27	1.13
<i>For Galvanized, Add</i>		
	<i>5.59</i>	
<i>For Zinc Coated, Add</i>		
	<i>3.98</i>	
26 05 29 00-0381 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.18	1.26
<i>For Galvanized, Add</i>		
	<i>7.06</i>	
<i>For Zinc Coated, Add</i>		
	<i>5.03</i>	
26 05 29 00-0382 Threaded Rod Couplings <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383 EA 3/8" Diameter, Threaded Rod Coupling Nut	10.71	
26 05 29 00-0384 EA 1/2" Diameter, Threaded Rod Coupling Nut	12.12	
26 05 29 00-0385 EA 5/8" Diameter, Threaded Rod Coupling Nut	14.92	
26 05 29 00-0386 EA 3/4" Diameter, Threaded Rod Coupling Nut	17.93	
26 05 29 00-0387 EA 7/8" Diameter, Threaded Rod Coupling Nut	25.52	
26 05 29 00-0388 EA 1" Diameter, Threaded Rod Coupling Nut	30.24	
26 05 29 00-0389 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	55.69	
26 05 29 00-0390 Flat Washers <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.92	0.34
<i>For Galvanized, Add</i>		
	<i>0.04</i>	
26 05 29 00-0392 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.15	0.34
<i>For Galvanized, Add</i>		
	<i>0.08</i>	
26 05 29 00-0393 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.48	0.34
<i>For Galvanized, Add</i>		
	<i>0.15</i>	
26 05 29 00-0394 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.78	0.68
<i>For Galvanized, Add</i>		
	<i>0.21</i>	
26 05 29 00-0395 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.99	0.68
<i>For Galvanized, Add</i>		
	<i>0.25</i>	
26 05 29 00-0396 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.35	0.68
<i>For Galvanized, Add</i>		
	<i>0.30</i>	
26 05 29 00-0397 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.63	0.68
<i>For Galvanized, Add</i>		
	<i>0.34</i>	
26 05 29 00-0398 Malleable Iron Eye Sockets <small>(26 05 29 00-0373)</small>		
<i>Note: Type 16.</i>		
26 05 29 00-0399 EA 3/8" Rod Size, Malleable Iron Eye Socket	10.76	
26 05 29 00-0400 EA 1/2" Rod Size, Malleable Iron Eye Socket	12.76	
26 05 29 00-0401 EA 5/8" Rod Size, Malleable Iron Eye Socket	21.42	
26 05 29 00-0402 EA 3/4" Rod Size, Malleable Iron Eye Socket	30.12	
26 05 29 00-0403 EA 7/8" Rod Size, Malleable Iron Eye Socket	32.17	
26 05 29 00-0404 Hex Nuts <small>(26 05 29 00-0373)</small>		
26 05 29 00-0405 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.89	0.34
<i>For Galvanized, Add</i>		
	<i>0.03</i>	
26 05 29 00-0406 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.11	0.34
<i>For Galvanized, Add</i>		
	<i>0.07</i>	
26 05 29 00-0407 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.48	0.34
<i>For Galvanized, Add</i>		
	<i>0.15</i>	
26 05 29 00-0408 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.73	0.68
<i>For Galvanized, Add</i>		
	<i>0.20</i>	
26 05 29 00-0409 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.47	0.68
<i>For Galvanized, Add</i>		
	<i>0.37</i>	
26 05 29 00-0410 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.13	0.68
<i>For Galvanized, Add</i>		
	<i>0.50</i>	
26 05 29 00-0411 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.02	0.68
<i>For Galvanized, Add</i>		
	<i>0.94</i>	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0412			Forged Steel Turnbuckles (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413	EA		3/8" Thread Diameter, Forged Steel Turnbuckle Body	27.04	
26 05 29 00-0414	EA		1/2" Thread Diameter, Forged Steel Turnbuckle Body	32.92	
26 05 29 00-0415	EA		5/8" Thread Diameter, Forged Steel Turnbuckle Body	43.21	
26 05 29 00-0416	EA		3/4" Thread Diameter, Forged Steel Turnbuckle Body	53.03	
26 05 29 00-0417	EA		7/8" Thread Diameter, Forged Steel Turnbuckle Body	123.63	
26 05 29 00-0418	EA		1" Thread Diameter, Forged Steel Turnbuckle Body	85.60	
26 05 29 00-0419	EA		1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	166.46	
26 05 29 00-0420			Attachments (26 05 29 00-0372)		
26 05 29 00-0421			Welded Beam Attachments (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422	EA		3/8" Rod Size, Welded Beam Attachment.....	50.23	13.69
26 05 29 00-0423	EA		1/2" Rod Size, Welded Beam Attachment.....	53.47	14.37
26 05 29 00-0424	EA		5/8" Rod Size, Welded Beam Attachment.....	56.85	15.19
26 05 29 00-0425	EA		3/4" Rod Size, Welded Beam Attachment.....	70.48	16.14
26 05 29 00-0426	EA		7/8" Rod Size, Welded Beam Attachment.....	83.21	17.10
26 05 29 00-0427	EA		1" Rod Size, Welded Beam Attachment.....	113.91	19.57
26 05 29 00-0428	EA		1-1/8" Rod Size, Welded Beam Attachment	156.87	20.52
26 05 29 00-0429			C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430	EA		3/8" Rod Size, C-Clamp Style Beam Clamp	19.93	10.28
26 05 29 00-0431	EA		1/2" Rod Size, C-Clamp Style Beam Clamp	23.11	10.96
26 05 29 00-0432	EA		5/8" Rod Size, C-Clamp Style Beam Clamp	25.88	11.74
26 05 29 00-0433	EA		3/4" Rod Size, C-Clamp Style Beam Clamp	32.00	12.64
26 05 29 00-0434	EA		7/8" Rod Size, C-Clamp Style Beam Clamp	44.06	13.71
26 05 29 00-0435			Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	47.39	13.71
26 05 29 00-0437	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	66.99	14.95
26 05 29 00-0438	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	93.19	16.45
26 05 29 00-0439	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	110.82	18.27
26 05 29 00-0440	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	256.17	20.55
26 05 29 00-0441			Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442	EA		1/2" Pipe Size, Zinc Plated Steel, U-Bolt.....	16.17	8.22
26 05 29 00-0443	EA		3/4" Pipe Size, Zinc Plated Steel, U-Bolt.....	17.40	8.65
26 05 29 00-0444	EA		1" Pipe Size, Zinc Plated Steel, U-Bolt.....	18.63	9.13
26 05 29 00-0445	EA		1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	20.82	9.67
26 05 29 00-0446	EA		1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	21.65	10.28
26 05 29 00-0447	EA		2" Pipe Size, Zinc Plated Steel, U-Bolt.....	23.15	10.96
26 05 29 00-0448	EA		2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	31.27	11.74
26 05 29 00-0449	EA		3" Pipe Size, Zinc Plated Steel, U-Bolt.....	34.32	12.65
26 05 29 00-0450	EA		4" Pipe Size, Zinc Plated Steel, U-Bolt.....	40.65	13.71
26 05 29 00-0451			Stainless Steel Threaded Rod (26 05 29 00-0372)		
26 05 29 00-0452	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.46	0.68
			<i>For 316 Stainless Steel, Add</i>	0.85	
26 05 29 00-0453	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	5.09	0.75
			<i>For 316 Stainless Steel, Add</i>	1.45	
26 05 29 00-0454	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.50	0.86
			<i>For 316 Stainless Steel, Add</i>	1.94	
26 05 29 00-0455	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	8.88	0.88
			<i>For 316 Stainless Steel, Add</i>	2.88	
26 05 29 00-0456	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	10.59	0.91
			<i>For 316 Stainless Steel, Add</i>	3.55	
26 05 29 00-0457	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	15.65	0.93
			<i>For 316 Stainless Steel, Add</i>	5.58	
26 05 29 00-0458	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	21.75	0.94
			<i>For 316 Stainless Steel, Add</i>	8.04	
26 05 29 00-0459	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	29.77	0.97
			<i>For 316 Stainless Steel, Add</i>	11.27	
26 05 29 00-0460	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	38.21	1.13
			<i>For 316 Stainless Steel, Add</i>	14.55	
26 05 29 00-0461	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	80.41	1.37
			<i>For 316 Stainless Steel, Add</i>	31.41	
26 05 29 00-0462			Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.		
26 05 29 00-0463			Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0464				Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	61.99	27.36
	EA			3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	67.44	29.83
	EA			1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	72.63	32.83
	EA			1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	85.14	36.53
	EA			1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	97.60	41.05
	EA			2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	114.06	45.15
	EA			2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	124.66	49.26
	EA			3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	136.68	53.36
	EA			3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	145.10	57.46
	EA			4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	156.46	61.57
26 05 29 00-0475				Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	65.15	27.36
	EA			3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	69.59	29.83
	EA			1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	79.04	32.83
	EA			1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	87.42	36.53
	EA			1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	98.49	41.05
	EA			2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	112.56	45.15
	EA			2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	127.51	49.26
	EA			3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	140.46	53.36
	EA			3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	149.87	57.46
	EA			4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	157.10	61.57
26 05 29 00-0486				Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
	EA			1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	62.38	27.09
	EA			3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	67.37	29.56
	EA			1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	75.85	32.83
	EA			1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	87.35	36.12
	EA			1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	109.69	41.05
	EA			2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp.....	120.37	45.15
26 05 29 00-0493				Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494				One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
	EA			1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	5.87	0.82
	EA			3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	6.33	0.82
	EA			1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	9.03	0.82
	EA			1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	10.86	0.82
	EA			1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.11	0.82
	EA			2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.91	0.82
	EA			2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.66	0.82
	EA			3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	36.86	0.82
	EA			3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	64.79	0.82
	EA			4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	68.82	0.82
26 05 29 00-0505				Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
	EA			1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.59	1.64
	EA			3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.64	1.64
	EA			1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	11.91	1.64
	EA			1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	14.69	1.64
	EA			1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.07	1.64
	EA			2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	17.12	1.64
	EA			2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.12	1.64
	EA			3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	19.94	1.64
	EA			3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	21.21	1.64
	EA			4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	22.92	1.64
26 05 29 00-0516				Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517				Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
	EA			1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	10.62	1.64
	EA			3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	12.17	1.64
	EA			1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	15.01	1.64
	EA			1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	17.37	1.64
	EA			1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	22.87	1.64
	EA			2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	48.63	1.64
	EA			2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	54.53	1.64
	EA			3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	74.05	1.64
	EA			3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	128.78	1.64
	EA			4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	128.78	1.64
26 05 29 00-0528				Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 29 00-0529		Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)			
26 05 29 00-0530	LF	3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	7.25		1.09
26 05 29 00-0531	LF	1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	8.86		1.23
26 05 29 00-0532		Attachments (26 05 29 00-0462)			
26 05 29 00-0533		Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)			
26 05 29 00-0534	EA	1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	18.39		8.22
26 05 29 00-0535	EA	3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	19.10		8.63
26 05 29 00-0536	EA	1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	20.13		9.18
26 05 29 00-0537	EA	1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	21.40		9.73
26 05 29 00-0538	EA	1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.77		10.28
26 05 29 00-0539	EA	2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	25.19		10.96
26 05 29 00-0540	EA	2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	33.55		11.78
26 05 29 00-0541	EA	3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	35.42		12.60
26 05 29 00-0542	EA	4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	37.91		13.71
26 05 29 00-0543	EA	5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	57.20		15.62
26 05 29 00-0544	EA	6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	70.02		18.09
26 05 29 00-0545		Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)			
26 05 29 00-0546	EA	1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	62.85		27.09
26 05 29 00-0547	EA	5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	70.38		27.09
26 05 29 00-0548	EA	3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	73.48		27.09
26 05 29 00-0549	EA	1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	80.28		28.74
26 05 29 00-0550	EA	1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	93.44		32.83
26 05 29 00-0551		Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)			
		Note: Includes stainless steel nuts and bolts.			
26 05 29 00-0552	EA	1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	24.25		9.03
26 05 29 00-0553	EA	3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	25.64		9.85
26 05 29 00-0554	EA	1" Polyvinyl Chloride (PVC) Coated Pipe Strap	27.90		10.67
26 05 29 00-0555	EA	1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	31.52		12.31
26 05 29 00-0556	EA	1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	36.03		13.96
26 05 29 00-0557	EA	2" Polyvinyl Chloride (PVC) Coated Pipe Strap	39.78		14.78
26 05 29 00-0558	EA	2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	43.99		16.42
26 05 29 00-0559	EA	3" Polyvinyl Chloride (PVC) Coated Pipe Strap	51.75		18.07
26 05 29 00-0560	EA	3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	56.26		18.89
26 05 29 00-0561	EA	4" Polyvinyl Chloride (PVC) Coated Pipe Strap	59.37		20.52
26 05 29 00-0562	EA	5" Polyvinyl Chloride (PVC) Coated Pipe Strap	63.86		22.98
26 05 29 00-0563		Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)			
26 05 29 00-0564	LF	A12, Polyvinyl Chloride (PVC) Coated Channel	23.09		4.11
26 05 29 00-0565	LF	A12A, Polyvinyl Chloride (PVC) Coated Channel	40.30		5.75
26 05 29 00-0566	LF	A12P, Polyvinyl Chloride (PVC) Coated Channel	24.55		4.11
26 05 29 00-0567	LF	C14, Polyvinyl Chloride (PVC) Coated Channel	18.62		4.11
26 05 29 00-0568	LF	C14P, Polyvinyl Chloride (PVC) Coated Channel	19.52		4.11
26 05 29 00-0569		Polymer Concrete Pads (26 05 29)			
		Note: Excludes excavation and backfill.			
26 05 29 00-0570		Polymer Concrete, Box Pads (26 05 29 00-0569)			
26 05 29 00-0571	EA	24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,125.16		113.01
26 05 29 00-0572	EA	25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,162.32		113.01
26 05 29 00-0573	EA	40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,503.74		113.01
26 05 29 00-0574	EA	40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,560.34		113.01
26 05 29 00-0575	EA	52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,451.04		113.01
26 05 29 00-0576	EA	44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	1,718.37		113.01
26 05 29 00-0577	EA	40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	1,923.36		113.01
26 05 29 00-0578	EA	52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	1,845.80		141.26
26 05 29 00-0579	EA	74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	2,803.56		141.26
26 05 29 00-0580	EA	93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	3,766.06		141.26
26 05 29 00-0581		Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)			
26 05 29 00-0582	EA	42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	538.61		59.13
26 05 29 00-0583	EA	48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	640.10		59.13
26 05 29 00-0584	EA	60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	834.88		84.75
26 05 29 00-0585	EA	54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	872.60		84.75
26 05 29 00-0586	EA	57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,256.61		84.75
26 05 29 00-0587	EA	72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,309.98		84.75
26 05 29 00-0588	EA	64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,409.42		84.75
26 05 29 00-0589	EA	72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,409.42		84.75
26 05 29 00-0590	EA	76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	2,658.78		84.75
26 05 29 00-0591	EA	96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	3,015.27		84.75



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0592			Polymer Concrete, Electrical Equipment Pads <small>(26 05 29 00-0592)</small>		
26 05 29 00-0593	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	323.64	59.13
26 05 29 00-0594	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	349.73	59.13
26 05 29 00-0595	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	373.50	59.13
26 05 29 00-0596	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	452.45	59.13
26 05 29 00-0597	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	417.22	59.13
26 05 29 00-0598	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	433.82	59.13
26 05 29 00-0599	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	476.86	59.13
26 05 29 00-0600	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	501.96	59.13
26 05 29 00-0601	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	585.82	59.13
26 05 29 00-0602	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	723.93	59.13
26 05 29 00-0603	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,071.61	84.75
26 05 29 00-0604	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,122.09	84.75
26 05 29 00-0605	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,138.01	84.75
26 05 29 00-0606	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,244.14	84.75
26 05 29 00-0607	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	2,663.57	84.75
26 05 29 00-0608	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	3,139.02	84.75

26 05 33 Raceway and Boxes for Electrical Systems (26 05)

26 05 33 13 Conduit for Electrical Systems (26 05 33)

26 05 33 13-0001 Conduit Assemblies (26 05 33 13)

Note: Includes conduit, fittings and wire. Excludes hangers or supports.

26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)

Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0598 for larger EMT conduit.

26 05 33 13-0003	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,036.61	305.54
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	261.93	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.39	
26 05 33 13-0004	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,135.55	331.79
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	284.43	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.59	
26 05 33 13-0005	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,234.48	358.05
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	306.94	
			<i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	4.79	
26 05 33 13-0006	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,098.16	318.67
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	273.18	
			<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.59	
26 05 33 13-0007	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,221.63	349.30
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	299.44	
			<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	5.38	
26 05 33 13-0008	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,238.43	344.92
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	295.69	
			<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	6.26	
26 05 33 13-0009	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,153.89	329.41
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	282.34	
			<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.39	
26 05 33 13-0010	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,252.83	355.67
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	304.84	
			<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.59	
26 05 33 13-0011	CLF		3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,351.76	381.92
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			<i>For Work In Restricted Working Space, Add</i>	327.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0012 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,450.70 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 349.84 <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i> 5.98	1,450.70	408.18
26 05 33 13-0013 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,215.43 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 293.59 <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i> 3.59	1,215.43	342.54
26 05 33 13-0014 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,338.89 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 319.84 <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i> 5.38	1,338.89	373.17
26 05 33 13-0015 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,462.36 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 346.10 <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i> 7.17	1,462.36	403.80
26 05 33 13-0016 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,585.81 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 372.35 <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i> 8.97	1,585.81	434.43
26 05 33 13-0017 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,530.79 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 349.84 <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i> 9.39	1,530.79	408.18
26 05 33 13-0018 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor .....1,705.88 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 383.60 <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i> 12.51	1,705.88	447.56
26 05 33 13-0019 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,539.11 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 338.59 <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i> 10.35	1,539.11	395.05
26 05 33 13-0020 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor .....1,780.08 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 379.85 <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i> 15.52	1,780.08	443.18
26 05 33 13-0021 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,318.12 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 303.94 <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i> 2.39	1,318.12	354.55
26 05 33 13-0022 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,417.06 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 326.44 <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i> 3.59	1,417.06	380.80
26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,516.00 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 348.95	1,516.00	407.05
26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,614.94 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 371.45 <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i> 5.98	1,614.94	433.30
26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....1,379.66 Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> 315.19 <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i> 3.59	1,379.66	367.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,503.12 341.44 5.38	398.30
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,626.58 367.70 7.17	428.92
26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,750.04 393.95 8.97	459.55
26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,695.03 371.45 9.39	433.30
26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,944.30 401.45 15.52	468.30
26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,185.27 442.70 20.69	516.44
26 05 33 13-0032 Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,364.58 298.09 2.39	347.79
26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,463.51 320.59 3.59	374.04
26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,426.12 309.34 3.59	360.92
26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,549.58 335.59 5.38	391.55
26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,566.39 331.84 6.26	387.17
26 05 33 13-0038 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,500.65 317.89 2.39	370.92
26 05 33 13-0039 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,599.59 340.39 3.59	397.17
26 05 33 13-0040 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,698.53 362.90	423.42
26 05 33 13-0041 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,562.20 329.14 3.59	384.04

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,685.65 355.39 5.38	414.67
26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,809.12 381.65 7.17	445.30
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	1,877.56 385.40 9.39	449.68
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #8 THWN Conductor Instead Of THHN, Add	2,052.64 419.15 12.51	489.06
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 2 #6 THWN Conductor Instead Of THHN, Add	1,885.87 374.15 10.35	436.55
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,126.84 415.40 15.52	484.68
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #12 THWN Conductor Instead Of THHN, Add	1,932.48 379.66 3.59	442.93
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add	2,031.42 402.16	469.19
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	2,130.35 424.67 5.98	495.43
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	2,018.55 394.66 5.38	460.44
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	2,142.01 420.92 7.17	491.06
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	2,265.47 447.17 8.97	521.69
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	2,210.45 424.67 9.39	495.43
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,459.73 454.67 15.52	530.44
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	2,700.70 495.92 20.69	578.57
26 05 33 13-0057 Conduit ^(26 05 33 13) Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade ^(26 05 33 13-0057) See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <small>(26 05 33 13-0059)</small>		
<i>Note: Includes field bending for conduit up to 1".</i>		
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	9.77	2.75
<i>For >250 To 500, Deduct</i>	-0.14	
<i>For >500 To 1,000, Deduct</i>	-0.56	
<i>For >1,000, Deduct</i>	-0.81	
<i>For Installation In Metal Stud Wall, Add</i>	0.69	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.72	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.03	
<i>For Work In Restricted Working Space, Add</i>	2.06	
<i>For Elevated Installation >10' To 15', Add</i>	0.69	
<i>For Elevated Installation >15' To 20', Add</i>	1.38	
<i>For Elevated Installation >20' To 25', Add</i>	1.72	
<i>For Elevated Installation >25' To 30', Add</i>	2.41	
<i>For Elevated Installation >30' To 35', Add</i>	2.75	
<i>For Elevated Installation >35' To 40', Add</i>	3.44	
<i>For Elevated Installation >40', Add</i>	3.78	
26 05 33 13-0062 LF 3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	11.56	3.00
<i>For >250 To 500, Deduct</i>	-0.18	
<i>For >500 To 1,000, Deduct</i>	-0.67	
<i>For >1,000, Deduct</i>	-0.96	
<i>For Installation In Metal Stud Wall, Add</i>	0.80	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.00	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.20	
<i>For Work In Restricted Working Space, Add</i>	2.40	
<i>For Elevated Installation >10' To 15', Add</i>	0.80	
<i>For Elevated Installation >15' To 20', Add</i>	1.60	
<i>For Elevated Installation >20' To 25', Add</i>	2.00	
<i>For Elevated Installation >25' To 30', Add</i>	2.80	
<i>For Elevated Installation >30' To 35', Add</i>	3.20	
<i>For Elevated Installation >35' To 40', Add</i>	4.00	
<i>For Elevated Installation >40', Add</i>	4.40	
26 05 33 13-0063 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	16.26	3.50
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500 To 1,000, Deduct</i>	-0.95	
<i>For >1,000, Deduct</i>	-1.36	
<i>For Installation In Metal Stud Wall, Add</i>	1.08	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.69	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.61	
<i>For Work In Restricted Working Space, Add</i>	3.23	
<i>For Elevated Installation >10' To 15', Add</i>	1.08	
<i>For Elevated Installation >15' To 20', Add</i>	2.15	
<i>For Elevated Installation >20' To 25', Add</i>	2.69	
<i>For Elevated Installation >25' To 30', Add</i>	3.76	
<i>For Elevated Installation >30' To 35', Add</i>	4.30	
<i>For Elevated Installation >35' To 40', Add</i>	5.38	
<i>For Elevated Installation >40', Add</i>	5.91	
26 05 33 13-0064 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	18.73	4.00
<i>For >250 To 500, Deduct</i>	-0.37	
<i>For >500 To 1,000, Deduct</i>	-1.12	
<i>For >1,000, Deduct</i>	-1.59	
<i>For Installation In Metal Stud Wall, Add</i>	1.14	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.85	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.71	
<i>For Work In Restricted Working Space, Add</i>	3.41	
<i>For Elevated Installation >10' To 15', Add</i>	1.14	
<i>For Elevated Installation >15' To 20', Add</i>	2.28	
<i>For Elevated Installation >20' To 25', Add</i>	2.85	
<i>For Elevated Installation >25' To 30', Add</i>	3.98	
<i>For Elevated Installation >30' To 35', Add</i>	4.55	
<i>For Elevated Installation >35' To 40', Add</i>	5.69	
<i>For Elevated Installation >40', Add</i>	6.26	
26 05 33 13-0065 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	21.50	4.50
<i>For >250 To 500, Deduct</i>	-0.45	
<i>For >500 To 1,000, Deduct</i>	-1.30	
<i>For >1,000, Deduct</i>	-1.84	
<i>For Installation In Metal Stud Wall, Add</i>	1.25	
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3.13	
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.88	
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation >10' To 15', Add</i>	1.25	
<i>For Elevated Installation >15' To 20', Add</i>	2.50	
<i>For Elevated Installation >20' To 25', Add</i>	3.13	
<i>For Elevated Installation >25' To 30', Add</i>	4.38	
<i>For Elevated Installation >30' To 35', Add</i>	5.00	
<i>For Elevated Installation >35' To 40', Add</i>	6.25	
<i>For Elevated Installation >40', Add</i>	6.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0066 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	27.40	5.50
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.36	
For Installation In Metal Stud Wall, Add	1.54	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.84	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.31	
For Work In Restricted Working Space, Add	4.61	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.07	
For Elevated Installation >20' To 25', Add	3.84	
For Elevated Installation >25' To 30', Add	5.38	
For Elevated Installation >30' To 35', Add	6.15	
For Elevated Installation >35' To 40', Add	7.69	
For Elevated Installation >40', Add	8.45	
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	40.82	7.50
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.56	
For Installation In Metal Stud Wall, Add	2.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.22	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.13	
For Work In Restricted Working Space, Add	6.26	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.18	
For Elevated Installation >20' To 25', Add	5.22	
For Elevated Installation >25' To 30', Add	7.31	
For Elevated Installation >30' To 35', Add	8.35	
For Elevated Installation >35' To 40', Add	10.44	
For Elevated Installation >40', Add	11.48	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	53.51	10.00
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-3.31	
For >1,000, Deduct	-4.65	
For Installation In Metal Stud Wall, Add	2.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.03	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.22	
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.63	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.85	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.07	
For Elevated Installation >40', Add	15.47	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	64.34	12.50
For >250 To 500, Deduct	-1.55	
For >500 To 1,000, Deduct	-3.99	
For >1,000, Deduct	-5.60	
For Installation In Metal Stud Wall, Add	3.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.01	
For Work In Restricted Working Space, Add	10.01	
For Elevated Installation >10' To 15', Add	3.34	
For Elevated Installation >15' To 20', Add	6.68	
For Elevated Installation >20' To 25', Add	8.35	
For Elevated Installation >25' To 30', Add	11.68	
For Elevated Installation >30' To 35', Add	13.35	
For Elevated Installation >35' To 40', Add	16.69	
For Elevated Installation >40', Add	18.36	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	76.33	15.00
For >250 To 500, Deduct	-1.89	
For >500 To 1,000, Deduct	-4.76	
For >1,000, Deduct	-6.67	
For Installation In Metal Stud Wall, Add	3.85	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.63	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.78	
For Work In Restricted Working Space, Add	11.55	
For Elevated Installation >10' To 15', Add	3.85	
For Elevated Installation >15' To 20', Add	7.70	
For Elevated Installation >20' To 25', Add	9.63	
For Elevated Installation >25' To 30', Add	13.48	
For Elevated Installation >30' To 35', Add	15.40	
For Elevated Installation >35' To 40', Add	19.26	
For Elevated Installation >40', Add	21.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	120.53	19.00
For >250 To 500, Deduct	-3.65	
For >500 To 1,000, Deduct	-7.85	
For >1,000, Deduct	-10.87	
For Installation In Metal Stud Wall, Add	4.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	11.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	7.13	
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
26 05 33 13-0072 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	162.64	24.00
For >250 To 500, Deduct	-5.13	
For >500 To 1,000, Deduct	-10.70	
For >1,000, Deduct	-14.76	
For Installation In Metal Stud Wall, Add	6.00	
For Installation In Wood Stud Wall (Includes Drilling), Add	15.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	9.00	
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
 26 05 33 13-0073 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0074 EA 1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	34.51	12.38
For Work In Restricted Working Space, Add	9.31	
For Elevated Installation >10' To 15', Add	3.10	
For Elevated Installation >15' To 20', Add	6.21	
For Elevated Installation >20' To 25', Add	7.76	
For Elevated Installation >25' To 30', Add	10.86	
For Elevated Installation >30' To 35', Add	12.42	
For Elevated Installation >35' To 40', Add	15.52	
For Elevated Installation >40', Add	17.07	
26 05 33 13-0075 EA 3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	43.17	15.37
For Work In Restricted Working Space, Add	11.58	
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.72	
For Elevated Installation >20' To 25', Add	9.65	
For Elevated Installation >25' To 30', Add	13.51	
For Elevated Installation >30' To 35', Add	15.44	
For Elevated Installation >35' To 40', Add	19.30	
For Elevated Installation >40', Add	21.22	
26 05 33 13-0076 EA 1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	54.11	18.87
For Work In Restricted Working Space, Add	14.12	
For Elevated Installation >10' To 15', Add	4.71	
For Elevated Installation >15' To 20', Add	9.41	
For Elevated Installation >20' To 25', Add	11.77	
For Elevated Installation >25' To 30', Add	16.47	
For Elevated Installation >30' To 35', Add	18.83	
For Elevated Installation >35' To 40', Add	23.54	
For Elevated Installation >40', Add	25.89	
26 05 33 13-0077 EA 1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	66.70	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	
26 05 33 13-0078 EA 1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	77.09	25.13
For Work In Restricted Working Space, Add	18.82	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.54	
For Elevated Installation >20' To 25', Add	15.68	
For Elevated Installation >25' To 30', Add	21.95	
For Elevated Installation >30' To 35', Add	25.09	
For Elevated Installation >35' To 40', Add	31.36	
For Elevated Installation >40', Add	34.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0079 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	88.76	27.63
For Work In Restricted Working Space, Add	20.70	
For Elevated Installation >10' To 15', Add	6.90	
For Elevated Installation >15' To 20', Add	13.80	
For Elevated Installation >20' To 25', Add	17.25	
For Elevated Installation >25' To 30', Add	24.15	
For Elevated Installation >30' To 35', Add	27.60	
For Elevated Installation >35' To 40', Add	34.50	
For Elevated Installation >40', Add	37.95	
26 05 33 13-0080 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	121.46	34.51
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
26 05 33 13-0081 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	169.92	47.01
For Work In Restricted Working Space, Add	35.25	
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.50	
For Elevated Installation >20' To 25', Add	29.38	
For Elevated Installation >25' To 30', Add	41.13	
For Elevated Installation >30' To 35', Add	47.00	
For Elevated Installation >35' To 40', Add	58.75	
For Elevated Installation >40', Add	64.63	
26 05 33 13-0082 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	214.48	53.01
For Work In Restricted Working Space, Add	39.76	
For Elevated Installation >10' To 15', Add	13.25	
For Elevated Installation >15' To 20', Add	26.51	
For Elevated Installation >20' To 25', Add	33.13	
For Elevated Installation >25' To 30', Add	46.39	
For Elevated Installation >30' To 35', Add	53.01	
For Elevated Installation >35' To 40', Add	66.27	
For Elevated Installation >40', Add	72.89	
26 05 33 13-0083 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	266.93	69.01
For Work In Restricted Working Space, Add	51.75	
For Elevated Installation >10' To 15', Add	17.25	
For Elevated Installation >15' To 20', Add	34.50	
For Elevated Installation >20' To 25', Add	43.12	
For Elevated Installation >25' To 30', Add	60.37	
For Elevated Installation >30' To 35', Add	69.00	
For Elevated Installation >35' To 40', Add	86.25	
For Elevated Installation >40', Add	94.87	
26 05 33 13-0084 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	436.26	112.51
For Work In Restricted Working Space, Add	84.39	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.33	
For Elevated Installation >25' To 30', Add	98.46	
For Elevated Installation >30' To 35', Add	112.52	
For Elevated Installation >35' To 40', Add	140.65	
For Elevated Installation >40', Add	154.72	
26 05 33 13-0085 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	655.68	169.02
For Work In Restricted Working Space, Add	126.76	
For Elevated Installation >10' To 15', Add	42.25	
For Elevated Installation >15' To 20', Add	84.50	
For Elevated Installation >20' To 25', Add	105.63	
For Elevated Installation >25' To 30', Add	147.88	
For Elevated Installation >30' To 35', Add	169.01	
For Elevated Installation >35' To 40', Add	211.26	
For Elevated Installation >40', Add	232.39	
26 05 33 13-0086 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0087 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	34.51	12.38
For Work In Restricted Working Space, Add	9.31	
For Elevated Installation >10' To 15', Add	3.10	
For Elevated Installation >15' To 20', Add	6.21	
For Elevated Installation >20' To 25', Add	7.76	
For Elevated Installation >25' To 30', Add	10.86	
For Elevated Installation >30' To 35', Add	12.42	
For Elevated Installation >35' To 40', Add	15.52	
For Elevated Installation >40', Add	17.07	
26 05 33 13-0088 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	43.17	15.37
For Work In Restricted Working Space, Add	11.58	
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.72	
For Elevated Installation >20' To 25', Add	9.65	
For Elevated Installation >25' To 30', Add	13.51	
For Elevated Installation >30' To 35', Add	15.44	
For Elevated Installation >35' To 40', Add	19.30	
For Elevated Installation >40', Add	21.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0089 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	54.11	18.87
<i>For Work In Restricted Working Space, Add</i>	14.12	
<i>For Elevated Installation >10' To 15', Add</i>	4.71	
<i>For Elevated Installation >15' To 20', Add</i>	9.41	
<i>For Elevated Installation >20' To 25', Add</i>	11.77	
<i>For Elevated Installation >25' To 30', Add</i>	16.47	
<i>For Elevated Installation >30' To 35', Add</i>	18.83	
<i>For Elevated Installation >35' To 40', Add</i>	23.54	
<i>For Elevated Installation >40', Add</i>	25.89	
26 05 33 13-0090 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	66.70	21.88
<i>For Work In Restricted Working Space, Add</i>	16.40	
<i>For Elevated Installation >10' To 15', Add</i>	5.47	
<i>For Elevated Installation >15' To 20', Add</i>	10.93	
<i>For Elevated Installation >20' To 25', Add</i>	13.66	
<i>For Elevated Installation >25' To 30', Add</i>	19.13	
<i>For Elevated Installation >30' To 35', Add</i>	21.86	
<i>For Elevated Installation >35' To 40', Add</i>	27.33	
<i>For Elevated Installation >40', Add</i>	30.06	
26 05 33 13-0091 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	77.09	25.13
<i>For Work In Restricted Working Space, Add</i>	18.82	
<i>For Elevated Installation >10' To 15', Add</i>	6.27	
<i>For Elevated Installation >15' To 20', Add</i>	12.54	
<i>For Elevated Installation >20' To 25', Add</i>	15.68	
<i>For Elevated Installation >25' To 30', Add</i>	21.95	
<i>For Elevated Installation >30' To 35', Add</i>	25.09	
<i>For Elevated Installation >35' To 40', Add</i>	31.36	
<i>For Elevated Installation >40', Add</i>	34.50	
26 05 33 13-0092 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	88.76	27.63
<i>For Work In Restricted Working Space, Add</i>	20.70	
<i>For Elevated Installation >10' To 15', Add</i>	6.90	
<i>For Elevated Installation >15' To 20', Add</i>	13.80	
<i>For Elevated Installation >20' To 25', Add</i>	17.25	
<i>For Elevated Installation >25' To 30', Add</i>	24.15	
<i>For Elevated Installation >30' To 35', Add</i>	27.60	
<i>For Elevated Installation >35' To 40', Add</i>	34.50	
<i>For Elevated Installation >40', Add</i>	37.95	
26 05 33 13-0093 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	120.03	34.51
<i>For Work In Restricted Working Space, Add</i>	25.88	
<i>For Elevated Installation >10' To 15', Add</i>	8.63	
<i>For Elevated Installation >15' To 20', Add</i>	17.25	
<i>For Elevated Installation >20' To 25', Add</i>	21.56	
<i>For Elevated Installation >25' To 30', Add</i>	30.19	
<i>For Elevated Installation >30' To 35', Add</i>	34.50	
<i>For Elevated Installation >35' To 40', Add</i>	43.13	
<i>For Elevated Installation >40', Add</i>	47.44	
26 05 33 13-0094 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	164.35	47.01
<i>For Work In Restricted Working Space, Add</i>	35.25	
<i>For Elevated Installation >10' To 15', Add</i>	11.75	
<i>For Elevated Installation >15' To 20', Add</i>	23.50	
<i>For Elevated Installation >20' To 25', Add</i>	29.38	
<i>For Elevated Installation >25' To 30', Add</i>	41.13	
<i>For Elevated Installation >30' To 35', Add</i>	47.00	
<i>For Elevated Installation >35' To 40', Add</i>	58.75	
<i>For Elevated Installation >40', Add</i>	64.63	
26 05 33 13-0095 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	206.65	53.01
<i>For Work In Restricted Working Space, Add</i>	39.76	
<i>For Elevated Installation >10' To 15', Add</i>	13.25	
<i>For Elevated Installation >15' To 20', Add</i>	26.51	
<i>For Elevated Installation >20' To 25', Add</i>	33.13	
<i>For Elevated Installation >25' To 30', Add</i>	46.39	
<i>For Elevated Installation >30' To 35', Add</i>	53.01	
<i>For Elevated Installation >35' To 40', Add</i>	66.27	
<i>For Elevated Installation >40', Add</i>	72.89	
26 05 33 13-0096 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	256.51	69.01
<i>For Work In Restricted Working Space, Add</i>	51.75	
<i>For Elevated Installation >10' To 15', Add</i>	17.25	
<i>For Elevated Installation >15' To 20', Add</i>	34.50	
<i>For Elevated Installation >20' To 25', Add</i>	43.12	
<i>For Elevated Installation >25' To 30', Add</i>	60.37	
<i>For Elevated Installation >30' To 35', Add</i>	69.00	
<i>For Elevated Installation >35' To 40', Add</i>	86.25	
<i>For Elevated Installation >40', Add</i>	94.87	
26 05 33 13-0097 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	436.26	112.51
<i>For Work In Restricted Working Space, Add</i>	84.39	
<i>For Elevated Installation >10' To 15', Add</i>	28.13	
<i>For Elevated Installation >15' To 20', Add</i>	56.26	
<i>For Elevated Installation >20' To 25', Add</i>	70.33	
<i>For Elevated Installation >25' To 30', Add</i>	98.46	
<i>For Elevated Installation >30' To 35', Add</i>	112.52	
<i>For Elevated Installation >35' To 40', Add</i>	140.65	
<i>For Elevated Installation >40', Add</i>	154.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0098 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	655.68	169.02
For Work In Restricted Working Space, Add	126.76	
For Elevated Installation >10' To 15', Add	42.25	
For Elevated Installation >15' To 20', Add	84.50	
For Elevated Installation >20' To 25', Add	105.63	
For Elevated Installation >25' To 30', Add	147.88	
For Elevated Installation >30' To 35', Add	169.01	
For Elevated Installation >35' To 40', Add	211.26	
For Elevated Installation >40', Add	232.39	
26 05 33 13-0099 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0100 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	78.54	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0101 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	90.66	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0102 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	104.21	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0103 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	116.43	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0104 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0105 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	82.89	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0106 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	96.26	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0107 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow	106.76	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0108 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	119.27	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0109 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	155.51	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0110 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	210.13	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0111 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0112 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	83.10	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0113 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	95.71	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0114 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	109.51	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0115 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	125.44	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0116 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	161.25	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0117 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	214.76	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0118 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	259.90	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0119 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	322.18	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0120 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0121 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	90.04	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0122 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	102.52	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0123 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	114.61	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0124 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	132.96	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0125 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	171.51	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0126 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	230.83	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0127 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	275.52	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0128 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	334.64	112.14
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
 26 05 33 13-0129 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0130 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	89.62	30.88
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
26 05 33 13-0131 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	107.58	35.75
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
26 05 33 13-0132 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	120.09	40.63
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0133 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	140.12	44.69
<i>For Work In Restricted Working Space, Add</i>	26.82	
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
26 05 33 13-0134 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	181.34	56.07
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
26 05 33 13-0135 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	243.53	76.38
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
26 05 33 13-0136 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	290.97	86.13
<i>For Work In Restricted Working Space, Add</i>	51.68	
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
26 05 33 13-0137 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	357.50	112.14
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0138	EA	5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	536.80 109.70 36.57 73.13 91.42 127.98 146.27 182.84 201.12	182.83
26 05 33 13-0139 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0059)					
See CSI section 26 05 33 13-2224 for conduit field bending.					
26 05 33	13-0140	EA	1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	93.33 18.53 6.18 12.35 15.44 21.62 24.70 30.88 33.97	30.88
26 05 33	13-0141	EA	1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	110.07 21.45 7.15 14.30 17.88 25.03 28.60 35.76 39.33	35.75
26 05 33	13-0142	EA	1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	129.69 24.38 8.13 16.25 20.32 28.44 32.50 40.63 44.69	40.63
26 05 33	13-0143	EA	2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	145.71 26.82 8.94 17.88 22.35 31.29 35.76 44.70 49.16	44.69
26 05 33	13-0144	EA	2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	193.01 33.64 11.21 22.43 28.04 39.25 44.86 56.07 61.68	56.07
26 05 33	13-0145	EA	3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	254.38 45.83 15.28 30.55 38.19 53.47 61.11 76.39 84.02	76.38
26 05 33	13-0146	EA	3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	310.92 51.68 17.23 34.45 43.07 60.29 68.91 86.14 94.75	86.13
26 05 33	13-0147	EA	4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	368.26 67.28 22.43 44.85 56.07 78.49 89.71 112.14 123.35	112.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0148 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	624.56	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0149 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	833.74	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0150 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0151 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	98.75	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0152 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	116.70	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0153 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	136.74	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0154 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	153.08	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0155 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	201.93	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0156 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	270.28	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
26 05 33 13-0157 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	326.87	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0158 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	414.15	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0159 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	687.87	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0160 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	888.56	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0161 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <small>(26 05 33 13-0059)</small>		
See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0162 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	103.27	30.88
For Work In Restricted Working Space, Add	18.53	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
26 05 33 13-0163 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	121.81	35.75
For Work In Restricted Working Space, Add	21.45	
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
26 05 33 13-0164 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	141.20	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0165 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	166.85	44.69
For Work In Restricted Working Space, Add	26.82	
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
26 05 33 13-0166 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	218.38	56.07
For Work In Restricted Working Space, Add	33.64	
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
26 05 33 13-0167 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	286.31	76.38
For Work In Restricted Working Space, Add	45.83	
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0168 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	346.92	86.13
For Work In Restricted Working Space, Add	51.68	
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
26 05 33 13-0169 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	438.51	112.14
For Work In Restricted Working Space, Add	67.28	
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
26 05 33 13-0170 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	707.69	182.83
For Work In Restricted Working Space, Add	109.70	
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
26 05 33 13-0171 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	899.65	274.66
For Work In Restricted Working Space, Add	164.80	
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
26 05 33 13-0172 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0173 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	16.18	7.97
For Work In Restricted Working Space, Add	4.78	
For Elevated Installation >10' To 15', Add	1.59	
For Elevated Installation >15' To 20', Add	3.19	
For Elevated Installation >20' To 25', Add	3.99	
For Elevated Installation >25' To 30', Add	5.58	
For Elevated Installation >30' To 35', Add	6.38	
For Elevated Installation >35' To 40', Add	7.97	
For Elevated Installation >40', Add	8.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.78	
26 05 33 13-0174 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.32	8.50
For Work In Restricted Working Space, Add	5.10	
For Elevated Installation >10' To 15', Add	1.70	
For Elevated Installation >15' To 20', Add	3.40	
For Elevated Installation >20' To 25', Add	4.25	
For Elevated Installation >25' To 30', Add	5.95	
For Elevated Installation >30' To 35', Add	6.80	
For Elevated Installation >35' To 40', Add	8.50	
For Elevated Installation >40', Add	9.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.10	
26 05 33 13-0175 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	19.61	9.56
For Work In Restricted Working Space, Add	5.74	
For Elevated Installation >10' To 15', Add	1.91	
For Elevated Installation >15' To 20', Add	3.82	
For Elevated Installation >20' To 25', Add	4.78	
For Elevated Installation >25' To 30', Add	6.69	
For Elevated Installation >30' To 35', Add	7.65	
For Elevated Installation >35' To 40', Add	9.56	
For Elevated Installation >40', Add	10.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-0176 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	21.96	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0177	EA	1-1/2"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....27.54		13.28
			<i>For Work In Restricted Working Space, Add</i>	7.97	
			<i>For Elevated Installation >10' To 15', Add</i>	2.66	
			<i>For Elevated Installation >15' To 20', Add</i>	5.31	
			<i>For Elevated Installation >20' To 25', Add</i>	6.64	
			<i>For Elevated Installation >25' To 30', Add</i>	9.30	
			<i>For Elevated Installation >30' To 35', Add</i>	10.63	
			<i>For Elevated Installation >35' To 40', Add</i>	13.29	
			<i>For Elevated Installation >40', Add</i>	14.61	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.97	
26 05 33 13-0178	EA	2"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....33.68		15.94
			<i>For Work In Restricted Working Space, Add</i>	9.56	
			<i>For Elevated Installation >10' To 15', Add</i>	3.19	
			<i>For Elevated Installation >15' To 20', Add</i>	6.38	
			<i>For Elevated Installation >20' To 25', Add</i>	7.97	
			<i>For Elevated Installation >25' To 30', Add</i>	11.16	
			<i>For Elevated Installation >30' To 35', Add</i>	12.75	
			<i>For Elevated Installation >35' To 40', Add</i>	15.94	
			<i>For Elevated Installation >40', Add</i>	17.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.56	
26 05 33 13-0179	EA	2-1/2"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....41.17		18.59
			<i>For Work In Restricted Working Space, Add</i>	11.16	
			<i>For Elevated Installation >10' To 15', Add</i>	3.72	
			<i>For Elevated Installation >15' To 20', Add</i>	7.44	
			<i>For Elevated Installation >20' To 25', Add</i>	9.30	
			<i>For Elevated Installation >25' To 30', Add</i>	13.02	
			<i>For Elevated Installation >30' To 35', Add</i>	14.88	
			<i>For Elevated Installation >35' To 40', Add</i>	18.60	
			<i>For Elevated Installation >40', Add</i>	20.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.16	
26 05 33 13-0180	EA	3"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....46.70		21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0181	EA	3-1/2"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....53.64		20.00
			<i>For Work In Restricted Working Space, Add</i>	14.35	
			<i>For Elevated Installation >10' To 15', Add</i>	4.78	
			<i>For Elevated Installation >15' To 20', Add</i>	9.56	
			<i>For Elevated Installation >20' To 25', Add</i>	11.96	
			<i>For Elevated Installation >25' To 30', Add</i>	16.74	
			<i>For Elevated Installation >30' To 35', Add</i>	19.13	
			<i>For Elevated Installation >35' To 40', Add</i>	23.91	
			<i>For Elevated Installation >40', Add</i>	26.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.35	
26 05 33 13-0182	EA	4"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....59.55		26.57
			<i>For Work In Restricted Working Space, Add</i>	15.94	
			<i>For Elevated Installation >10' To 15', Add</i>	5.31	
			<i>For Elevated Installation >15' To 20', Add</i>	10.63	
			<i>For Elevated Installation >20' To 25', Add</i>	13.28	
			<i>For Elevated Installation >25' To 30', Add</i>	18.60	
			<i>For Elevated Installation >30' To 35', Add</i>	21.25	
			<i>For Elevated Installation >35' To 40', Add</i>	26.57	
			<i>For Elevated Installation >40', Add</i>	29.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.94	
26 05 33 13-0183	EA	5"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....69.38		29.23
			<i>For Work In Restricted Working Space, Add</i>	17.53	
			<i>For Elevated Installation >10' To 15', Add</i>	5.84	
			<i>For Elevated Installation >15' To 20', Add</i>	11.69	
			<i>For Elevated Installation >20' To 25', Add</i>	14.61	
			<i>For Elevated Installation >25' To 30', Add</i>	20.45	
			<i>For Elevated Installation >30' To 35', Add</i>	23.38	
			<i>For Elevated Installation >35' To 40', Add</i>	29.22	
			<i>For Elevated Installation >40', Add</i>	32.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.53	
26 05 33 13-0184	EA	6"	Rigid Galvanized Steel (RGS) Plastic Insulating Bushing.....91.45		31.88
			<i>For Work In Restricted Working Space, Add</i>	19.13	
			<i>For Elevated Installation >10' To 15', Add</i>	6.38	
			<i>For Elevated Installation >15' To 20', Add</i>	12.75	
			<i>For Elevated Installation >20' To 25', Add</i>	15.94	
			<i>For Elevated Installation >25' To 30', Add</i>	22.31	
			<i>For Elevated Installation >30' To 35', Add</i>	25.50	
			<i>For Elevated Installation >35' To 40', Add</i>	31.88	
			<i>For Elevated Installation >40', Add</i>	35.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.13	

26 05 33 13-0185 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0186	EA	1/2" Rigid Galvanized Steel (RGS) Steel Bushing	19.36	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33	13-0187	EA	3/4" Rigid Galvanized Steel (RGS) Steel Bushing	20.89	10.00
			<i>For Work In Restricted Working Space, Add</i>	6.00	
			<i>For Elevated Installation >10' To 15', Add</i>	2.00	
			<i>For Elevated Installation >15' To 20', Add</i>	4.00	
			<i>For Elevated Installation >20' To 25', Add</i>	5.00	
			<i>For Elevated Installation >25' To 30', Add</i>	7.00	
			<i>For Elevated Installation >30' To 35', Add</i>	8.00	
			<i>For Elevated Installation >35' To 40', Add</i>	10.00	
			<i>For Elevated Installation >40', Add</i>	11.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33	13-0188	EA	1" Rigid Galvanized Steel (RGS) Steel Bushing	24.04	11.26
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Elevated Installation >10' To 15', Add</i>	2.25	
			<i>For Elevated Installation >15' To 20', Add</i>	4.50	
			<i>For Elevated Installation >20' To 25', Add</i>	5.63	
			<i>For Elevated Installation >25' To 30', Add</i>	7.88	
			<i>For Elevated Installation >30' To 35', Add</i>	9.00	
			<i>For Elevated Installation >35' To 40', Add</i>	11.25	
			<i>For Elevated Installation >40', Add</i>	12.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33	13-0189	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	26.91	12.50
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33	13-0190	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	34.07	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33	13-0191	EA	2" Rigid Galvanized Steel (RGS) Steel Bushing	40.53	18.75
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33	13-0192	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	53.28	21.88
			<i>For Work In Restricted Working Space, Add</i>	13.13	
			<i>For Elevated Installation >10' To 15', Add</i>	4.38	
			<i>For Elevated Installation >15' To 20', Add</i>	8.75	
			<i>For Elevated Installation >20' To 25', Add</i>	10.94	
			<i>For Elevated Installation >25' To 30', Add</i>	15.32	
			<i>For Elevated Installation >30' To 35', Add</i>	17.50	
			<i>For Elevated Installation >35' To 40', Add</i>	21.88	
			<i>For Elevated Installation >40', Add</i>	24.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33	13-0193	EA	3" Rigid Galvanized Steel (RGS) Steel Bushing	62.50	25.01
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.00	
			<i>For Elevated Installation >40', Add</i>	27.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0194 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	85.44	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0195 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing.....	109.83	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0196 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing.....	140.52	34.38
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-0197 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing.....	196.15	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-0198 Rigid Galvanized Steel (RGS) Steel Insulated Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0199 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	20.08	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0200 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	21.97	10.00
For Work In Restricted Working Space, Add	6.00	
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.00	
For Elevated Installation >20' To 25', Add	5.00	
For Elevated Installation >25' To 30', Add	7.00	
For Elevated Installation >30' To 35', Add	8.00	
For Elevated Installation >35' To 40', Add	10.00	
For Elevated Installation >40', Add	11.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.00	
26 05 33 13-0201 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	25.40	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0202 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	29.22	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0203 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	36.46	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0204 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	44.78	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0205 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	59.04	21.88
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-0206 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	69.25	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0207 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	86.70	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0208 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	115.46	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0209 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	146.66	34.38
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-0210 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	198.31	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	

26 05 33 13-0211 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0212 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	27.85	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0213 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	31.11	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0214 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	35.11	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0215 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	41.10	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0216 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	50.13	19.37
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.57	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	
26 05 33 13-0217 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	62.04	23.13
For Work In Restricted Working Space, Add	13.88	
For Elevated Installation >10' To 15', Add	4.63	
For Elevated Installation >15' To 20', Add	9.25	
For Elevated Installation >20' To 25', Add	11.56	
For Elevated Installation >25' To 30', Add	16.19	
For Elevated Installation >30' To 35', Add	18.50	
For Elevated Installation >35' To 40', Add	23.13	
For Elevated Installation >40', Add	25.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.88	
26 05 33 13-0218 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	79.56	26.88
For Work In Restricted Working Space, Add	16.13	
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.13	
26 05 33 13-0219 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	89.12	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0220 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	100.49	35.01
<i>For Work In Restricted Working Space, Add</i>	21.00	
<i>For Elevated Installation >10' To 15', Add</i>	7.00	
<i>For Elevated Installation >15' To 20', Add</i>	14.00	
<i>For Elevated Installation >20' To 25', Add</i>	17.50	
<i>For Elevated Installation >25' To 30', Add</i>	24.50	
<i>For Elevated Installation >30' To 35', Add</i>	28.00	
<i>For Elevated Installation >35' To 40', Add</i>	35.01	
<i>For Elevated Installation >40', Add</i>	38.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.00	
26 05 33 13-0221 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	124.17	38.76
<i>For Work In Restricted Working Space, Add</i>	23.25	
<i>For Elevated Installation >10' To 15', Add</i>	7.75	
<i>For Elevated Installation >15' To 20', Add</i>	15.50	
<i>For Elevated Installation >20' To 25', Add</i>	19.38	
<i>For Elevated Installation >25' To 30', Add</i>	27.13	
<i>For Elevated Installation >30' To 35', Add</i>	31.00	
<i>For Elevated Installation >35' To 40', Add</i>	38.76	
<i>For Elevated Installation >40', Add</i>	42.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.25	
26 05 33 13-0222 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	165.32	42.51
<i>For Work In Restricted Working Space, Add</i>	25.50	
<i>For Elevated Installation >10' To 15', Add</i>	8.50	
<i>For Elevated Installation >15' To 20', Add</i>	17.00	
<i>For Elevated Installation >20' To 25', Add</i>	21.25	
<i>For Elevated Installation >25' To 30', Add</i>	29.75	
<i>For Elevated Installation >30' To 35', Add</i>	34.00	
<i>For Elevated Installation >35' To 40', Add</i>	42.51	
<i>For Elevated Installation >40', Add</i>	46.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.50	
26 05 33 13-0223 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	217.55	46.89
<i>For Work In Restricted Working Space, Add</i>	28.13	
<i>For Elevated Installation >10' To 15', Add</i>	9.38	
<i>For Elevated Installation >15' To 20', Add</i>	18.75	
<i>For Elevated Installation >20' To 25', Add</i>	23.44	
<i>For Elevated Installation >25' To 30', Add</i>	32.82	
<i>For Elevated Installation >30' To 35', Add</i>	37.50	
<i>For Elevated Installation >35' To 40', Add</i>	46.88	
<i>For Elevated Installation >40', Add</i>	51.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.13	
26 05 33 13-0224 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)		
26 05 33 13-0225 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	18.90	5.75
<i>For Work In Restricted Working Space, Add</i>	4.28	
<i>For Elevated Installation >10' To 15', Add</i>	1.43	
<i>For Elevated Installation >15' To 20', Add</i>	2.85	
<i>For Elevated Installation >20' To 25', Add</i>	3.57	
<i>For Elevated Installation >25' To 30', Add</i>	4.99	
<i>For Elevated Installation >30' To 35', Add</i>	5.71	
<i>For Elevated Installation >35' To 40', Add</i>	7.14	
<i>For Elevated Installation >40', Add</i>	7.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.28	
26 05 33 13-0226 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	22.95	6.62
<i>For Work In Restricted Working Space, Add</i>	4.96	
<i>For Elevated Installation >10' To 15', Add</i>	1.65	
<i>For Elevated Installation >15' To 20', Add</i>	3.30	
<i>For Elevated Installation >20' To 25', Add</i>	4.13	
<i>For Elevated Installation >25' To 30', Add</i>	5.78	
<i>For Elevated Installation >30' To 35', Add</i>	6.61	
<i>For Elevated Installation >35' To 40', Add</i>	8.26	
<i>For Elevated Installation >40', Add</i>	9.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.96	
26 05 33 13-0227 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	30.17	8.00
<i>For Work In Restricted Working Space, Add</i>	5.97	
<i>For Elevated Installation >10' To 15', Add</i>	1.99	
<i>For Elevated Installation >15' To 20', Add</i>	3.98	
<i>For Elevated Installation >20' To 25', Add</i>	4.98	
<i>For Elevated Installation >25' To 30', Add</i>	6.97	
<i>For Elevated Installation >30' To 35', Add</i>	7.96	
<i>For Elevated Installation >35' To 40', Add</i>	9.96	
<i>For Elevated Installation >40', Add</i>	10.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.97	
26 05 33 13-0228 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	44.88	9.87
<i>For Work In Restricted Working Space, Add</i>	7.43	
<i>For Elevated Installation >10' To 15', Add</i>	2.48	
<i>For Elevated Installation >15' To 20', Add</i>	4.95	
<i>For Elevated Installation >20' To 25', Add</i>	6.19	
<i>For Elevated Installation >25' To 30', Add</i>	8.67	
<i>For Elevated Installation >30' To 35', Add</i>	9.91	
<i>For Elevated Installation >35' To 40', Add</i>	12.39	
<i>For Elevated Installation >40', Add</i>	13.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0229 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	60.78	13.25
For Work In Restricted Working Space, Add	9.95	
For Elevated Installation >10' To 15', Add	3.32	
For Elevated Installation >15' To 20', Add	6.63	
For Elevated Installation >20' To 25', Add	8.29	
For Elevated Installation >25' To 30', Add	11.61	
For Elevated Installation >30' To 35', Add	13.26	
For Elevated Installation >35' To 40', Add	16.58	
For Elevated Installation >40', Add	18.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.95	
26 05 33 13-0230 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	103.81	19.87
For Work In Restricted Working Space, Add	14.90	
For Elevated Installation >10' To 15', Add	4.97	
For Elevated Installation >15' To 20', Add	9.93	
For Elevated Installation >20' To 25', Add	12.42	
For Elevated Installation >25' To 30', Add	17.38	
For Elevated Installation >30' To 35', Add	19.86	
For Elevated Installation >35' To 40', Add	24.83	
For Elevated Installation >40', Add	27.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.90	
26 05 33 13-0231 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	189.01	22.00
For Work In Restricted Working Space, Add	16.50	
For Elevated Installation >10' To 15', Add	5.50	
For Elevated Installation >15' To 20', Add	11.00	
For Elevated Installation >20' To 25', Add	13.75	
For Elevated Installation >25' To 30', Add	19.25	
For Elevated Installation >30' To 35', Add	22.00	
For Elevated Installation >35' To 40', Add	27.50	
For Elevated Installation >40', Add	30.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-0232 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	225.25	26.63
For Work In Restricted Working Space, Add	19.99	
For Elevated Installation >10' To 15', Add	6.66	
For Elevated Installation >15' To 20', Add	13.33	
For Elevated Installation >20' To 25', Add	16.66	
For Elevated Installation >25' To 30', Add	23.32	
For Elevated Installation >30' To 35', Add	26.65	
For Elevated Installation >35' To 40', Add	33.32	
For Elevated Installation >40', Add	36.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.99	
26 05 33 13-0233 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	304.93	33.38
For Work In Restricted Working Space, Add	25.02	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.68	
For Elevated Installation >20' To 25', Add	20.85	
For Elevated Installation >25' To 30', Add	29.19	
For Elevated Installation >30' To 35', Add	33.36	
For Elevated Installation >35' To 40', Add	41.71	
For Elevated Installation >40', Add	45.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.02	
26 05 33 13-0234 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	357.08	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-0235 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	630.76	44.51
For Work In Restricted Working Space, Add	33.34	
For Elevated Installation >10' To 15', Add	11.11	
For Elevated Installation >15' To 20', Add	22.23	
For Elevated Installation >20' To 25', Add	27.79	
For Elevated Installation >25' To 30', Add	38.90	
For Elevated Installation >30' To 35', Add	44.46	
For Elevated Installation >35' To 40', Add	55.57	
For Elevated Installation >40', Add	61.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.34	
26 05 33 13-0236 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	754.00	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.50	
For Elevated Installation >40', Add	68.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	

26 05 33 13-0237 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0238 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.71	8.13
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0239 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.39	9.38
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0240 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.04	11.88
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0241 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.42	13.75
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0242 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.71	15.63
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0243 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.83	8.13
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0244 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.58	9.38
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
26 05 33 13-0245 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.24	11.88
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>		
<i>For Elevated Installation >15' To 20', Add</i>		
<i>For Elevated Installation >20' To 25', Add</i>		
<i>For Elevated Installation >25' To 30', Add</i>		
<i>For Elevated Installation >30' To 35', Add</i>		
<i>For Elevated Installation >35' To 40', Add</i>		
<i>For Elevated Installation >40', Add</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0246	EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.69	13.75
	<i>For Work In Restricted Working Space, Add</i>	8.25	
	<i>For Elevated Installation >10' To 15', Add</i>	2.75	
	<i>For Elevated Installation >15' To 20', Add</i>	5.50	
	<i>For Elevated Installation >20' To 25', Add</i>	6.88	
	<i>For Elevated Installation >25' To 30', Add</i>	9.63	
	<i>For Elevated Installation >30' To 35', Add</i>	11.00	
	<i>For Elevated Installation >35' To 40', Add</i>	13.75	
	<i>For Elevated Installation >40', Add</i>	15.13	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0247	EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.15	15.63
	<i>For Work In Restricted Working Space, Add</i>	9.38	
	<i>For Elevated Installation >10' To 15', Add</i>	3.13	
	<i>For Elevated Installation >15' To 20', Add</i>	6.25	
	<i>For Elevated Installation >20' To 25', Add</i>	7.81	
	<i>For Elevated Installation >25' To 30', Add</i>	10.94	
	<i>For Elevated Installation >30' To 35', Add</i>	12.50	
	<i>For Elevated Installation >35' To 40', Add</i>	15.63	
	<i>For Elevated Installation >40', Add</i>	17.19	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0248	EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.72	17.50
	<i>For Work In Restricted Working Space, Add</i>	10.50	
	<i>For Elevated Installation >10' To 15', Add</i>	3.50	
	<i>For Elevated Installation >15' To 20', Add</i>	7.00	
	<i>For Elevated Installation >20' To 25', Add</i>	8.75	
	<i>For Elevated Installation >25' To 30', Add</i>	12.25	
	<i>For Elevated Installation >30' To 35', Add</i>	14.00	
	<i>For Elevated Installation >35' To 40', Add</i>	17.51	
	<i>For Elevated Installation >40', Add</i>	19.26	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0249	EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.95	8.13
	<i>For Work In Restricted Working Space, Add</i>	4.88	
	<i>For Elevated Installation >10' To 15', Add</i>	1.63	
	<i>For Elevated Installation >15' To 20', Add</i>	3.25	
	<i>For Elevated Installation >20' To 25', Add</i>	4.06	
	<i>For Elevated Installation >25' To 30', Add</i>	5.69	
	<i>For Elevated Installation >30' To 35', Add</i>	6.50	
	<i>For Elevated Installation >35' To 40', Add</i>	8.13	
	<i>For Elevated Installation >40', Add</i>	8.94	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-0250	EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.74	9.38
	<i>For Work In Restricted Working Space, Add</i>	5.63	
	<i>For Elevated Installation >10' To 15', Add</i>	1.88	
	<i>For Elevated Installation >15' To 20', Add</i>	3.75	
	<i>For Elevated Installation >20' To 25', Add</i>	4.69	
	<i>For Elevated Installation >25' To 30', Add</i>	6.56	
	<i>For Elevated Installation >30' To 35', Add</i>	7.50	
	<i>For Elevated Installation >35' To 40', Add</i>	9.38	
	<i>For Elevated Installation >40', Add</i>	10.31	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0251	EA 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.53	11.88
	<i>For Work In Restricted Working Space, Add</i>	7.13	
	<i>For Elevated Installation >10' To 15', Add</i>	2.38	
	<i>For Elevated Installation >15' To 20', Add</i>	4.75	
	<i>For Elevated Installation >20' To 25', Add</i>	5.94	
	<i>For Elevated Installation >25' To 30', Add</i>	8.31	
	<i>For Elevated Installation >30' To 35', Add</i>	9.50	
	<i>For Elevated Installation >35' To 40', Add</i>	11.88	
	<i>For Elevated Installation >40', Add</i>	13.06	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0252	EA 1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.94	13.75
	<i>For Work In Restricted Working Space, Add</i>	8.25	
	<i>For Elevated Installation >10' To 15', Add</i>	2.75	
	<i>For Elevated Installation >15' To 20', Add</i>	5.50	
	<i>For Elevated Installation >20' To 25', Add</i>	6.88	
	<i>For Elevated Installation >25' To 30', Add</i>	9.63	
	<i>For Elevated Installation >30' To 35', Add</i>	11.00	
	<i>For Elevated Installation >35' To 40', Add</i>	13.75	
	<i>For Elevated Installation >40', Add</i>	15.13	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0253	EA 1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.45	15.63
	<i>For Work In Restricted Working Space, Add</i>	9.38	
	<i>For Elevated Installation >10' To 15', Add</i>	3.13	
	<i>For Elevated Installation >15' To 20', Add</i>	6.25	
	<i>For Elevated Installation >20' To 25', Add</i>	7.81	
	<i>For Elevated Installation >25' To 30', Add</i>	10.94	
	<i>For Elevated Installation >30' To 35', Add</i>	12.50	
	<i>For Elevated Installation >35' To 40', Add</i>	15.63	
	<i>For Elevated Installation >40', Add</i>	17.19	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0254 EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.45	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0255 EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	53.76	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0256 EA 3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	72.58	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0257 EA 1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.12	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0258 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.83	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0259 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.90	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0260 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.41	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0261 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.07	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0262	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple	41.20	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33	13-0263	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	55.81	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33	13-0264	EA	3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	74.35	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33	13-0265	EA	1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	18.27	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33	13-0266	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	21.11	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33	13-0267	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	27.13	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-0268	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	31.64	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33	13-0269	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	36.50	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0270 EA 2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	41.85	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0271 EA 2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	56.43	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0272 EA 3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	75.66	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0273 EA 3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	86.84	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-0274 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	109.36	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0275 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.51	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0276 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.46	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0277 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.58	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0278	EA		1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.30	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0279	EA		1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.14	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0280	EA		2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.99	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0281	EA		2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	58.97	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0282	EA		3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	78.41	29.38
			<i>For Work In Restricted Working Space, Add</i>	17.63	
			<i>For Elevated Installation >10' To 15', Add</i>	5.88	
			<i>For Elevated Installation >15' To 20', Add</i>	11.75	
			<i>For Elevated Installation >20' To 25', Add</i>	14.69	
			<i>For Elevated Installation >25' To 30', Add</i>	20.56	
			<i>For Elevated Installation >30' To 35', Add</i>	23.50	
			<i>For Elevated Installation >35' To 40', Add</i>	29.38	
			<i>For Elevated Installation >40', Add</i>	32.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-0283	EA		3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	89.57	33.12
			<i>For Work In Restricted Working Space, Add</i>	19.88	
			<i>For Elevated Installation >10' To 15', Add</i>	6.63	
			<i>For Elevated Installation >15' To 20', Add</i>	13.25	
			<i>For Elevated Installation >20' To 25', Add</i>	16.56	
			<i>For Elevated Installation >25' To 30', Add</i>	23.19	
			<i>For Elevated Installation >30' To 35', Add</i>	26.50	
			<i>For Elevated Installation >35' To 40', Add</i>	33.13	
			<i>For Elevated Installation >40', Add</i>	36.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-0284	EA		4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	113.35	43.13
			<i>For Work In Restricted Working Space, Add</i>	25.88	
			<i>For Elevated Installation >10' To 15', Add</i>	8.63	
			<i>For Elevated Installation >15' To 20', Add</i>	17.25	
			<i>For Elevated Installation >20' To 25', Add</i>	21.56	
			<i>For Elevated Installation >25' To 30', Add</i>	30.19	
			<i>For Elevated Installation >30' To 35', Add</i>	34.50	
			<i>For Elevated Installation >35' To 40', Add</i>	43.13	
			<i>For Elevated Installation >40', Add</i>	47.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0285	EA		5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	171.36	59.38
			<i>For Work In Restricted Working Space, Add</i>	35.63	
			<i>For Elevated Installation >10' To 15', Add</i>	11.88	
			<i>For Elevated Installation >15' To 20', Add</i>	23.75	
			<i>For Elevated Installation >20' To 25', Add</i>	29.69	
			<i>For Elevated Installation >25' To 30', Add</i>	41.57	
			<i>For Elevated Installation >30' To 35', Add</i>	47.50	
			<i>For Elevated Installation >35' To 40', Add</i>	59.38	
			<i>For Elevated Installation >40', Add</i>	65.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0286 EA 6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	217.92	76.13
For Work In Restricted Working Space, Add	45.71	
For Elevated Installation >10' To 15', Add	15.24	
For Elevated Installation >15' To 20', Add	30.47	
For Elevated Installation >20' To 25', Add	38.09	
For Elevated Installation >25' To 30', Add	53.33	
For Elevated Installation >30' To 35', Add	60.94	
For Elevated Installation >35' To 40', Add	76.18	
For Elevated Installation >40', Add	83.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 33 13-0287 EA 1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	18.95	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0288 EA 3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.91	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0289 EA 1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	27.94	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0290 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.90	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0291 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	38.49	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0292 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	44.14	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0293 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	61.19	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	

26 Electrical

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0294	EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.20 17.63 5.88 11.75 14.69 20.56 23.50 29.38 32.31 17.63	29.38
26 05 33 13-0295	EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.90 19.88 6.63 13.25 16.56 23.19 26.50 33.13 36.44 19.88	33.12
26 05 33 13-0296	EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.51 25.88 8.63 17.25 21.56 30.19 34.50 43.13 47.44 25.88	43.13
26 05 33 13-0297	EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.00 35.63 11.88 23.75 29.69 41.57 47.50 59.38 65.32 35.63	59.38
26 05 33 13-0298	EA 6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.70 45.71 15.24 30.47 38.09 53.33 60.94 76.18 83.80 45.71	76.13
26 05 33 13-0299	EA 1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.56 4.88 1.63 3.25 4.06 5.69 6.50 8.13 8.94 4.88	8.13
26 05 33 13-0300	EA 3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.97 5.63 1.88 3.75 4.69 6.56 7.50 9.38 10.31 5.63	9.38
26 05 33 13-0301	EA 1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.35 7.13 2.38 4.75 5.94 8.31 9.50 11.88 13.06 7.13	11.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0302 EA 1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.34	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-0303 EA 1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.32	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0304 EA 2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	48.18	17.50
For Work In Restricted Working Space, Add	10.50	
For Elevated Installation >10' To 15', Add	3.50	
For Elevated Installation >15' To 20', Add	7.00	
For Elevated Installation >20' To 25', Add	8.75	
For Elevated Installation >25' To 30', Add	12.25	
For Elevated Installation >30' To 35', Add	14.00	
For Elevated Installation >35' To 40', Add	17.50	
For Elevated Installation >40', Add	19.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 33 13-0305 EA 2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	67.08	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.75	
26 05 33 13-0306 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	87.96	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0307 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	99.64	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-0308 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	123.97	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0309 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	186.74	59.38
For Work In Restricted Working Space, Add	35.63	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.75	
For Elevated Installation >20' To 25', Add	29.69	
For Elevated Installation >25' To 30', Add	41.57	
For Elevated Installation >30' To 35', Add	47.50	
For Elevated Installation >35' To 40', Add	59.38	
For Elevated Installation >40', Add	65.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0310	EA		6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	236.77	76.13
			<i>For Work In Restricted Working Space, Add</i>	45.71	
			<i>For Elevated Installation >10' To 15', Add</i>	15.24	
			<i>For Elevated Installation >15' To 20', Add</i>	30.47	
			<i>For Elevated Installation >20' To 25', Add</i>	38.09	
			<i>For Elevated Installation >25' To 30', Add</i>	53.33	
			<i>For Elevated Installation >30' To 35', Add</i>	60.94	
			<i>For Elevated Installation >35' To 40', Add</i>	76.18	
			<i>For Elevated Installation >40', Add</i>	83.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.71	
26 05 33 13-0311	EA		1 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	21.64	8.13
			<i>For Work In Restricted Working Space, Add</i>	4.88	
			<i>For Elevated Installation >10' To 15', Add</i>	1.63	
			<i>For Elevated Installation >15' To 20', Add</i>	3.25	
			<i>For Elevated Installation >20' To 25', Add</i>	4.06	
			<i>For Elevated Installation >25' To 30', Add</i>	5.69	
			<i>For Elevated Installation >30' To 35', Add</i>	6.50	
			<i>For Elevated Installation >35' To 40', Add</i>	8.13	
			<i>For Elevated Installation >40', Add</i>	8.94	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-0312	EA		3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	25.01	9.38
			<i>For Work In Restricted Working Space, Add</i>	5.63	
			<i>For Elevated Installation >10' To 15', Add</i>	1.88	
			<i>For Elevated Installation >15' To 20', Add</i>	3.75	
			<i>For Elevated Installation >20' To 25', Add</i>	4.69	
			<i>For Elevated Installation >25' To 30', Add</i>	6.56	
			<i>For Elevated Installation >30' To 35', Add</i>	7.50	
			<i>For Elevated Installation >35' To 40', Add</i>	9.38	
			<i>For Elevated Installation >40', Add</i>	10.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-0313	EA		1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	32.27	11.88
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Elevated Installation >10' To 15', Add</i>	2.38	
			<i>For Elevated Installation >15' To 20', Add</i>	4.75	
			<i>For Elevated Installation >20' To 25', Add</i>	5.94	
			<i>For Elevated Installation >25' To 30', Add</i>	8.31	
			<i>For Elevated Installation >30' To 35', Add</i>	9.50	
			<i>For Elevated Installation >35' To 40', Add</i>	11.88	
			<i>For Elevated Installation >40', Add</i>	13.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0314	EA		1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	38.63	13.75
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0315	EA		1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	44.57	15.63
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.81	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0316	EA		2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	50.79	17.50
			<i>For Work In Restricted Working Space, Add</i>	10.50	
			<i>For Elevated Installation >10' To 15', Add</i>	3.50	
			<i>For Elevated Installation >15' To 20', Add</i>	7.00	
			<i>For Elevated Installation >20' To 25', Add</i>	8.75	
			<i>For Elevated Installation >25' To 30', Add</i>	12.25	
			<i>For Elevated Installation >30' To 35', Add</i>	14.00	
			<i>For Elevated Installation >35' To 40', Add</i>	17.50	
			<i>For Elevated Installation >40', Add</i>	19.25	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0317	EA		2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	71.04	21.25
			<i>For Work In Restricted Working Space, Add</i>	12.75	
			<i>For Elevated Installation >10' To 15', Add</i>	4.25	
			<i>For Elevated Installation >15' To 20', Add</i>	8.50	
			<i>For Elevated Installation >20' To 25', Add</i>	10.63	
			<i>For Elevated Installation >25' To 30', Add</i>	14.88	
			<i>For Elevated Installation >30' To 35', Add</i>	17.00	
			<i>For Elevated Installation >35' To 40', Add</i>	21.26	
			<i>For Elevated Installation >40', Add</i>	23.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0318 EA 3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	93.28	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.56	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.63	
26 05 33 13-0319 EA 3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	106.64	33.12
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.56	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.50	
For Elevated Installation >35' To 40', Add	33.13	
For Elevated Installation >40', Add	36.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.88	
26 05 33 13-0320 EA 4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	132.83	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0321 EA 5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	198.46	59.38
For Work In Restricted Working Space, Add	35.63	
For Elevated Installation >10' To 15', Add	11.88	
For Elevated Installation >15' To 20', Add	23.75	
For Elevated Installation >20' To 25', Add	29.69	
For Elevated Installation >25' To 30', Add	41.57	
For Elevated Installation >30' To 35', Add	47.50	
For Elevated Installation >35' To 40', Add	59.38	
For Elevated Installation >40', Add	65.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.63	
26 05 33 13-0322 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	257.85	76.13
For Work In Restricted Working Space, Add	45.71	
For Elevated Installation >10' To 15', Add	15.24	
For Elevated Installation >15' To 20', Add	30.47	
For Elevated Installation >20' To 25', Add	38.09	
For Elevated Installation >25' To 30', Add	53.33	
For Elevated Installation >30' To 35', Add	60.94	
For Elevated Installation >35' To 40', Add	76.18	
For Elevated Installation >40', Add	83.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 33 13-0323 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.47	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0324 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	25.79	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0325 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	33.43	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0326	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....40.45	40.45	13.75
		<i>For Work In Restricted Working Space, Add</i>	8.25	
		<i>For Elevated Installation >10' To 15', Add</i>	2.75	
		<i>For Elevated Installation >15' To 20', Add</i>	5.50	
		<i>For Elevated Installation >20' To 25', Add</i>	6.88	
		<i>For Elevated Installation >25' To 30', Add</i>	9.63	
		<i>For Elevated Installation >30' To 35', Add</i>	11.00	
		<i>For Elevated Installation >35' To 40', Add</i>	13.75	
		<i>For Elevated Installation >40', Add</i>	15.13	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-0327	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....45.70	45.70	15.63
		<i>For Work In Restricted Working Space, Add</i>	9.38	
		<i>For Elevated Installation >10' To 15', Add</i>	3.13	
		<i>For Elevated Installation >15' To 20', Add</i>	6.25	
		<i>For Elevated Installation >20' To 25', Add</i>	7.81	
		<i>For Elevated Installation >25' To 30', Add</i>	10.94	
		<i>For Elevated Installation >30' To 35', Add</i>	12.50	
		<i>For Elevated Installation >35' To 40', Add</i>	15.63	
		<i>For Elevated Installation >40', Add</i>	17.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-0328	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....52.97	52.97	17.50
		<i>For Work In Restricted Working Space, Add</i>	10.50	
		<i>For Elevated Installation >10' To 15', Add</i>	3.50	
		<i>For Elevated Installation >15' To 20', Add</i>	7.00	
		<i>For Elevated Installation >20' To 25', Add</i>	8.75	
		<i>For Elevated Installation >25' To 30', Add</i>	12.25	
		<i>For Elevated Installation >30' To 35', Add</i>	14.00	
		<i>For Elevated Installation >35' To 40', Add</i>	17.50	
		<i>For Elevated Installation >40', Add</i>	19.25	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-0329	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....75.69	75.69	21.25
		<i>For Work In Restricted Working Space, Add</i>	12.75	
		<i>For Elevated Installation >10' To 15', Add</i>	4.25	
		<i>For Elevated Installation >15' To 20', Add</i>	8.50	
		<i>For Elevated Installation >20' To 25', Add</i>	10.63	
		<i>For Elevated Installation >25' To 30', Add</i>	14.88	
		<i>For Elevated Installation >30' To 35', Add</i>	17.00	
		<i>For Elevated Installation >35' To 40', Add</i>	21.26	
		<i>For Elevated Installation >40', Add</i>	23.38	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-0330	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....100.67	100.67	29.38
		<i>For Work In Restricted Working Space, Add</i>	17.63	
		<i>For Elevated Installation >10' To 15', Add</i>	5.88	
		<i>For Elevated Installation >15' To 20', Add</i>	11.75	
		<i>For Elevated Installation >20' To 25', Add</i>	14.69	
		<i>For Elevated Installation >25' To 30', Add</i>	20.56	
		<i>For Elevated Installation >30' To 35', Add</i>	23.50	
		<i>For Elevated Installation >35' To 40', Add</i>	29.38	
		<i>For Elevated Installation >40', Add</i>	32.31	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-0331	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....113.46	113.46	33.12
		<i>For Work In Restricted Working Space, Add</i>	19.88	
		<i>For Elevated Installation >10' To 15', Add</i>	6.63	
		<i>For Elevated Installation >15' To 20', Add</i>	13.25	
		<i>For Elevated Installation >20' To 25', Add</i>	16.56	
		<i>For Elevated Installation >25' To 30', Add</i>	23.19	
		<i>For Elevated Installation >30' To 35', Add</i>	26.50	
		<i>For Elevated Installation >35' To 40', Add</i>	33.13	
		<i>For Elevated Installation >40', Add</i>	36.44	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-0332	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....141.71	141.71	43.13
		<i>For Work In Restricted Working Space, Add</i>	25.88	
		<i>For Elevated Installation >10' To 15', Add</i>	8.63	
		<i>For Elevated Installation >15' To 20', Add</i>	17.25	
		<i>For Elevated Installation >20' To 25', Add</i>	21.56	
		<i>For Elevated Installation >25' To 30', Add</i>	30.19	
		<i>For Elevated Installation >30' To 35', Add</i>	34.50	
		<i>For Elevated Installation >35' To 40', Add</i>	43.13	
		<i>For Elevated Installation >40', Add</i>	47.44	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-0333	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....215.31	215.31	59.38
		<i>For Work In Restricted Working Space, Add</i>	35.63	
		<i>For Elevated Installation >10' To 15', Add</i>	11.88	
		<i>For Elevated Installation >15' To 20', Add</i>	23.75	
		<i>For Elevated Installation >20' To 25', Add</i>	29.69	
		<i>For Elevated Installation >25' To 30', Add</i>	41.57	
		<i>For Elevated Installation >30' To 35', Add</i>	47.50	
		<i>For Elevated Installation >35' To 40', Add</i>	59.38	
		<i>For Elevated Installation >40', Add</i>	65.32	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0334 EA 6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	269.57	76.13
For Work In Restricted Working Space, Add	45.71	
For Elevated Installation >10' To 15', Add	15.24	
For Elevated Installation >15' To 20', Add	30.47	
For Elevated Installation >20' To 25', Add	38.09	
For Elevated Installation >25' To 30', Add	53.33	
For Elevated Installation >30' To 35', Add	60.94	
For Elevated Installation >35' To 40', Add	76.18	
For Elevated Installation >40', Add	83.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.71	
26 05 33 13-0335 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0059)		
26 05 33 13-0336 EA 1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	18.85	6.50
For Work In Restricted Working Space, Add	4.91	
For Elevated Installation >10' To 15', Add	1.64	
For Elevated Installation >15' To 20', Add	3.28	
For Elevated Installation >20' To 25', Add	4.10	
For Elevated Installation >25' To 30', Add	5.73	
For Elevated Installation >30' To 35', Add	6.55	
For Elevated Installation >35' To 40', Add	8.19	
For Elevated Installation >40', Add	9.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.91	
26 05 33 13-0337 EA 3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	22.43	7.50
For Work In Restricted Working Space, Add	5.60	
For Elevated Installation >10' To 15', Add	1.87	
For Elevated Installation >15' To 20', Add	3.73	
For Elevated Installation >20' To 25', Add	4.66	
For Elevated Installation >25' To 30', Add	6.53	
For Elevated Installation >30' To 35', Add	7.46	
For Elevated Installation >35' To 40', Add	9.33	
For Elevated Installation >40', Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.60	
26 05 33 13-0338 EA 1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	28.17	9.50
For Work In Restricted Working Space, Add	7.16	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.77	
For Elevated Installation >20' To 25', Add	5.96	
For Elevated Installation >25' To 30', Add	8.35	
For Elevated Installation >30' To 35', Add	9.54	
For Elevated Installation >35' To 40', Add	11.93	
For Elevated Installation >40', Add	13.12	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.16	
26 05 33 13-0339 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	35.55	11.38
For Work In Restricted Working Space, Add	8.57	
For Elevated Installation >10' To 15', Add	2.86	
For Elevated Installation >15' To 20', Add	5.72	
For Elevated Installation >20' To 25', Add	7.15	
For Elevated Installation >25' To 30', Add	10.00	
For Elevated Installation >30' To 35', Add	11.43	
For Elevated Installation >35' To 40', Add	14.29	
For Elevated Installation >40', Add	15.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 05 33 13-0340 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	38.93	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.26	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.95	
For Elevated Installation >30' To 35', Add	12.51	
For Elevated Installation >35' To 40', Add	15.64	
For Elevated Installation >40', Add	17.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0341 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	50.67	15.37
For Work In Restricted Working Space, Add	11.56	
For Elevated Installation >10' To 15', Add	3.85	
For Elevated Installation >15' To 20', Add	7.71	
For Elevated Installation >20' To 25', Add	9.63	
For Elevated Installation >25' To 30', Add	13.49	
For Elevated Installation >30' To 35', Add	15.41	
For Elevated Installation >35' To 40', Add	19.27	
For Elevated Installation >40', Add	21.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.56	
26 05 33 13-0342 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated.....	82.75	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0343 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	132.23	34.51
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.57	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.88	
26 05 33 13-0344 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	163.40	40.75
For Work In Restricted Working Space, Add	30.40	
For Elevated Installation >10' To 15', Add	10.13	
For Elevated Installation >15' To 20', Add	20.27	
For Elevated Installation >20' To 25', Add	25.33	
For Elevated Installation >25' To 30', Add	35.47	
For Elevated Installation >30' To 35', Add	40.53	
For Elevated Installation >35' To 40', Add	50.67	
For Elevated Installation >40', Add	55.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.40	
26 05 33 13-0345 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	195.62	47.01
For Work In Restricted Working Space, Add	35.26	
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.51	
For Elevated Installation >20' To 25', Add	29.38	
For Elevated Installation >25' To 30', Add	41.14	
For Elevated Installation >30' To 35', Add	47.01	
For Elevated Installation >35' To 40', Add	58.77	
For Elevated Installation >40', Add	64.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.26	
26 05 33 13-0346 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0059)		
Note: Erickson fittings.		
26 05 33 13-0347 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	51.73	20.00
For Work In Restricted Working Space, Add	15.02	
For Elevated Installation >10' To 15', Add	5.01	
For Elevated Installation >15' To 20', Add	10.01	
For Elevated Installation >20' To 25', Add	12.52	
For Elevated Installation >25' To 30', Add	17.52	
For Elevated Installation >30' To 35', Add	20.02	
For Elevated Installation >35' To 40', Add	25.03	
For Elevated Installation >40', Add	27.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	
26 05 33 13-0348 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.02	22.38
For Work In Restricted Working Space, Add	16.76	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.18	
For Elevated Installation >20' To 25', Add	13.97	
For Elevated Installation >25' To 30', Add	19.56	
For Elevated Installation >30' To 35', Add	22.35	
For Elevated Installation >35' To 40', Add	27.94	
For Elevated Installation >40', Add	30.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.76	
26 05 33 13-0349 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	66.19	24.88
For Work In Restricted Working Space, Add	18.67	
For Elevated Installation >10' To 15', Add	6.22	
For Elevated Installation >15' To 20', Add	12.45	
For Elevated Installation >20' To 25', Add	15.56	
For Elevated Installation >25' To 30', Add	21.78	
For Elevated Installation >30' To 35', Add	24.90	
For Elevated Installation >35' To 40', Add	31.12	
For Elevated Installation >40', Add	34.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.67	
26 05 33 13-0350 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	76.53	27.25
For Work In Restricted Working Space, Add	20.43	
For Elevated Installation >10' To 15', Add	6.81	
For Elevated Installation >15' To 20', Add	13.62	
For Elevated Installation >20' To 25', Add	17.03	
For Elevated Installation >25' To 30', Add	23.84	
For Elevated Installation >30' To 35', Add	27.24	
For Elevated Installation >35' To 40', Add	34.06	
For Elevated Installation >40', Add	37.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.43	
26 05 33 13-0351 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	84.62	29.76
For Work In Restricted Working Space, Add	22.36	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.63	
For Elevated Installation >25' To 30', Add	26.08	
For Elevated Installation >30' To 35', Add	29.81	
For Elevated Installation >35' To 40', Add	37.26	
For Elevated Installation >40', Add	40.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0352 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	100.92	32.25
<i>For Work In Restricted Working Space, Add</i>	24.21	
<i>For Elevated Installation >10' To 15', Add</i>	8.07	
<i>For Elevated Installation >15' To 20', Add</i>	16.14	
<i>For Elevated Installation >20' To 25', Add</i>	20.18	
<i>For Elevated Installation >25' To 30', Add</i>	28.25	
<i>For Elevated Installation >30' To 35', Add</i>	32.28	
<i>For Elevated Installation >35' To 40', Add</i>	40.35	
<i>For Elevated Installation >40', Add</i>	44.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.21	
26 05 33 13-0353 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	146.85	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-0354 EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	196.10	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0355 EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	268.48	60.01
<i>For Work In Restricted Working Space, Add</i>	45.02	
<i>For Elevated Installation >10' To 15', Add</i>	15.01	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.52	
<i>For Elevated Installation >25' To 30', Add</i>	52.52	
<i>For Elevated Installation >30' To 35', Add</i>	60.03	
<i>For Elevated Installation >35' To 40', Add</i>	75.04	
<i>For Elevated Installation >40', Add</i>	82.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.02	
26 05 33 13-0356 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	301.76	65.01
<i>For Work In Restricted Working Space, Add</i>	48.75	
<i>For Elevated Installation >10' To 15', Add</i>	16.25	
<i>For Elevated Installation >15' To 20', Add</i>	32.50	
<i>For Elevated Installation >20' To 25', Add</i>	40.63	
<i>For Elevated Installation >25' To 30', Add</i>	56.88	
<i>For Elevated Installation >30' To 35', Add</i>	65.00	
<i>For Elevated Installation >35' To 40', Add</i>	81.26	
<i>For Elevated Installation >40', Add</i>	89.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.75	
26 05 33 13-0357 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	485.78	80.01
<i>For Work In Restricted Working Space, Add</i>	60.00	
<i>For Elevated Installation >10' To 15', Add</i>	20.00	
<i>For Elevated Installation >15' To 20', Add</i>	40.00	
<i>For Elevated Installation >20' To 25', Add</i>	50.00	
<i>For Elevated Installation >25' To 30', Add</i>	70.00	
<i>For Elevated Installation >30' To 35', Add</i>	80.00	
<i>For Elevated Installation >35' To 40', Add</i>	100.00	
<i>For Elevated Installation >40', Add</i>	110.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.00	
26 05 33 13-0358 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	612.17	92.51
<i>For Work In Restricted Working Space, Add</i>	69.38	
<i>For Elevated Installation >10' To 15', Add</i>	23.13	
<i>For Elevated Installation >15' To 20', Add</i>	46.25	
<i>For Elevated Installation >20' To 25', Add</i>	57.81	
<i>For Elevated Installation >25' To 30', Add</i>	80.94	
<i>For Elevated Installation >30' To 35', Add</i>	92.50	
<i>For Elevated Installation >35' To 40', Add</i>	115.63	
<i>For Elevated Installation >40', Add</i>	127.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.38	
26 05 33 13-0359 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors		
<small>(26 05 33 13-0059)</small>		
26 05 33 13-0360 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector.....	31.64	10.00
<i>For Work In Restricted Working Space, Add</i>	7.50	
<i>For Elevated Installation >10' To 15', Add</i>	2.50	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.25	
<i>For Elevated Installation >25' To 30', Add</i>	8.75	
<i>For Elevated Installation >30' To 35', Add</i>	10.00	
<i>For Elevated Installation >35' To 40', Add</i>	12.51	
<i>For Elevated Installation >40', Add</i>	13.76	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0361 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	35.34	11.00
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
26 05 33 13-0362 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	40.60	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0363 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	46.09	13.50
For Work In Restricted Working Space, Add	10.13	
For Elevated Installation >10' To 15', Add	3.38	
For Elevated Installation >15' To 20', Add	6.75	
For Elevated Installation >20' To 25', Add	8.44	
For Elevated Installation >25' To 30', Add	11.82	
For Elevated Installation >30' To 35', Add	13.50	
For Elevated Installation >35' To 40', Add	16.88	
For Elevated Installation >40', Add	18.57	
26 05 33 13-0364 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	54.68	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0365 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	66.66	16.50
For Work In Restricted Working Space, Add	12.38	
For Elevated Installation >10' To 15', Add	4.13	
For Elevated Installation >15' To 20', Add	8.25	
For Elevated Installation >20' To 25', Add	10.32	
For Elevated Installation >25' To 30', Add	14.44	
For Elevated Installation >30' To 35', Add	16.50	
For Elevated Installation >35' To 40', Add	20.63	
For Elevated Installation >40', Add	22.69	
26 05 33 13-0366 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	90.71	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0367 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	112.19	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0368 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	134.77	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0369 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	152.23	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0370 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0371 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	25.44	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0372 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	28.33	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0373 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	35.14	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0374 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	42.79	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0375 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	55.82	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0376 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	64.03	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0377 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	75.70	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0378 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	99.44	39.38
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0379	EA	3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	118.76	47.51
		For Work In Restricted Working Space, Add	28.50	
		For Elevated Installation >10' To 15', Add	9.50	
		For Elevated Installation >15' To 20', Add	19.00	
		For Elevated Installation >20' To 25', Add	23.75	
		For Elevated Installation >25' To 30', Add	33.25	
		For Elevated Installation >30' To 35', Add	38.00	
		For Elevated Installation >35' To 40', Add	47.51	
		For Elevated Installation >40', Add	52.26	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.50	
26 05 33 13-0380	EA	4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	143.82	56.26
		For Work In Restricted Working Space, Add	33.75	
		For Elevated Installation >10' To 15', Add	11.25	
		For Elevated Installation >15' To 20', Add	22.50	
		For Elevated Installation >20' To 25', Add	28.13	
		For Elevated Installation >25' To 30', Add	39.38	
		For Elevated Installation >30' To 35', Add	45.00	
		For Elevated Installation >35' To 40', Add	56.26	
		For Elevated Installation >40', Add	61.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	
26 05 33 13-0381 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement <small>(26 05 33 13-0059)</small>				
Note: Type AX				
26 05 33 13-0382	EA	1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	126.35	20.00
		For Work In Restricted Working Space, Add	15.00	
		For Elevated Installation >10' To 15', Add	5.00	
		For Elevated Installation >15' To 20', Add	10.00	
		For Elevated Installation >20' To 25', Add	12.50	
		For Elevated Installation >25' To 30', Add	17.50	
		For Elevated Installation >30' To 35', Add	20.00	
		For Elevated Installation >35' To 40', Add	25.01	
		For Elevated Installation >40', Add	27.51	
26 05 33 13-0383	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	143.41	22.50
		For Work In Restricted Working Space, Add	16.88	
		For Elevated Installation >10' To 15', Add	5.63	
		For Elevated Installation >15' To 20', Add	11.25	
		For Elevated Installation >20' To 25', Add	14.07	
		For Elevated Installation >25' To 30', Add	19.69	
		For Elevated Installation >30' To 35', Add	22.50	
		For Elevated Installation >35' To 40', Add	28.13	
		For Elevated Installation >40', Add	30.94	
26 05 33 13-0384	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	169.73	25.01
		For Work In Restricted Working Space, Add	18.75	
		For Elevated Installation >10' To 15', Add	6.25	
		For Elevated Installation >15' To 20', Add	12.50	
		For Elevated Installation >20' To 25', Add	15.63	
		For Elevated Installation >25' To 30', Add	21.88	
		For Elevated Installation >30' To 35', Add	25.00	
		For Elevated Installation >35' To 40', Add	31.26	
		For Elevated Installation >40', Add	34.38	
26 05 33 13-0385	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	207.64	27.50
		For Work In Restricted Working Space, Add	20.63	
		For Elevated Installation >10' To 15', Add	6.88	
		For Elevated Installation >15' To 20', Add	13.75	
		For Elevated Installation >20' To 25', Add	17.19	
		For Elevated Installation >25' To 30', Add	24.07	
		For Elevated Installation >30' To 35', Add	27.50	
		For Elevated Installation >35' To 40', Add	34.38	
		For Elevated Installation >40', Add	37.82	
26 05 33 13-0386	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	260.61	30.01
		For Work In Restricted Working Space, Add	22.50	
		For Elevated Installation >10' To 15', Add	7.50	
		For Elevated Installation >15' To 20', Add	15.00	
		For Elevated Installation >20' To 25', Add	18.75	
		For Elevated Installation >25' To 30', Add	26.25	
		For Elevated Installation >30' To 35', Add	30.00	
		For Elevated Installation >35' To 40', Add	37.51	
		For Elevated Installation >40', Add	41.26	
26 05 33 13-0387	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	359.65	32.50
		For Work In Restricted Working Space, Add	24.38	
		For Elevated Installation >10' To 15', Add	8.13	
		For Elevated Installation >15' To 20', Add	16.25	
		For Elevated Installation >20' To 25', Add	20.31	
		For Elevated Installation >25' To 30', Add	28.44	
		For Elevated Installation >30' To 35', Add	32.50	
		For Elevated Installation >35' To 40', Add	40.63	
		For Elevated Installation >40', Add	44.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0388 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	550.05 30.00 10.00 20.00 25.00 35.00 40.00 50.01 55.01	40.00
26 05 33 13-0389 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	704.64 37.50 12.50 25.00 31.25 43.75 50.00 62.51 68.76	50.00
26 05 33 13-0390 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,027.78 45.01 15.00 30.01 37.51 52.51 60.01 75.02 82.52	60.01
26 05 33 13-0391 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,095.68 48.75 16.25 32.50 40.63 56.88 65.00 81.26 89.38	65.01
26 05 33 13-0392 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,676.91 60.01 20.00 40.00 50.01 70.01 80.01 100.01 110.01	80.01
26 05 33 13-0393 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	2,059.31 66.61 22.20 44.41 55.51 77.71 88.81 111.02 122.12	88.76
26 05 33 13-0394 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement ^(26 05 33 13-0394) Note: Type AX-8		
26 05 33 13-0395 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	139.12 15.00 5.00 10.00 12.50 17.50 20.00 25.01 27.51	20.00
26 05 33 13-0396 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	154.72 16.88 5.63 11.25 14.07 19.69 22.50 28.13 30.94	22.50
26 05 33 13-0397 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	187.47 18.75 6.25 12.50 15.63 21.88 25.00 31.26 34.38	25.01

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0398 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	235.58	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.07	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.82	
26 05 33 13-0399 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	316.14	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0400 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	386.18	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.31	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0401 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	722.05	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0402 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	822.09	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0403 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,259.90	60.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.02	
For Elevated Installation >40', Add	82.52	
26 05 33 13-0404 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,363.97	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	
26 05 33 13-0405 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,903.05	80.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
26 05 33 13-0406 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	2,350.27	88.76
For Work In Restricted Working Space, Add	66.61	
For Elevated Installation >10' To 15', Add	22.20	
For Elevated Installation >15' To 20', Add	44.41	
For Elevated Installation >20' To 25', Add	55.51	
For Elevated Installation >25' To 30', Add	77.71	
For Elevated Installation >30' To 35', Add	88.81	
For Elevated Installation >35' To 40', Add	111.02	
For Elevated Installation >40', Add	122.12	

26 05 33 13-0407 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0059)
 Note: Type EX



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0408 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	157.80	20.00
<i>For Work In Restricted Working Space, Add</i>	15.00	
<i>For Elevated Installation >10' To 15', Add</i>	5.00	
<i>For Elevated Installation >15' To 20', Add</i>	10.00	
<i>For Elevated Installation >20' To 25', Add</i>	12.50	
<i>For Elevated Installation >25' To 30', Add</i>	17.50	
<i>For Elevated Installation >30' To 35', Add</i>	20.00	
<i>For Elevated Installation >35' To 40', Add</i>	25.01	
<i>For Elevated Installation >40', Add</i>	27.51	
26 05 33 13-0409 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	198.76	22.50
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation >10' To 15', Add</i>	5.63	
<i>For Elevated Installation >15' To 20', Add</i>	11.25	
<i>For Elevated Installation >20' To 25', Add</i>	14.07	
<i>For Elevated Installation >25' To 30', Add</i>	19.69	
<i>For Elevated Installation >30' To 35', Add</i>	22.50	
<i>For Elevated Installation >35' To 40', Add</i>	28.13	
<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0410 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	246.97	25.01
<i>For Work In Restricted Working Space, Add</i>	18.75	
<i>For Elevated Installation >10' To 15', Add</i>	6.25	
<i>For Elevated Installation >15' To 20', Add</i>	12.50	
<i>For Elevated Installation >20' To 25', Add</i>	15.63	
<i>For Elevated Installation >25' To 30', Add</i>	21.88	
<i>For Elevated Installation >30' To 35', Add</i>	25.00	
<i>For Elevated Installation >35' To 40', Add</i>	31.26	
<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0411 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	300.00	27.50
<i>For Work In Restricted Working Space, Add</i>	20.63	
<i>For Elevated Installation >10' To 15', Add</i>	6.88	
<i>For Elevated Installation >15' To 20', Add</i>	13.75	
<i>For Elevated Installation >20' To 25', Add</i>	17.19	
<i>For Elevated Installation >25' To 30', Add</i>	24.07	
<i>For Elevated Installation >30' To 35', Add</i>	27.50	
<i>For Elevated Installation >35' To 40', Add</i>	34.38	
<i>For Elevated Installation >40', Add</i>	37.82	
26 05 33 13-0412 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	403.37	30.01
<i>For Work In Restricted Working Space, Add</i>	22.50	
<i>For Elevated Installation >10' To 15', Add</i>	7.50	
<i>For Elevated Installation >15' To 20', Add</i>	15.00	
<i>For Elevated Installation >20' To 25', Add</i>	18.75	
<i>For Elevated Installation >25' To 30', Add</i>	26.25	
<i>For Elevated Installation >30' To 35', Add</i>	30.00	
<i>For Elevated Installation >35' To 40', Add</i>	37.51	
<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0413 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	554.75	32.50
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.31	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
26 05 33 13-0414 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	860.84	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
26 05 33 13-0415 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,160.00	50.00
<i>For Work In Restricted Working Space, Add</i>	37.50	
<i>For Elevated Installation >10' To 15', Add</i>	12.50	
<i>For Elevated Installation >15' To 20', Add</i>	25.00	
<i>For Elevated Installation >20' To 25', Add</i>	31.25	
<i>For Elevated Installation >25' To 30', Add</i>	43.75	
<i>For Elevated Installation >30' To 35', Add</i>	50.00	
<i>For Elevated Installation >35' To 40', Add</i>	62.51	
<i>For Elevated Installation >40', Add</i>	68.76	
26 05 33 13-0416 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,740.51	60.01
<i>For Work In Restricted Working Space, Add</i>	45.01	
<i>For Elevated Installation >10' To 15', Add</i>	15.00	
<i>For Elevated Installation >15' To 20', Add</i>	30.01	
<i>For Elevated Installation >20' To 25', Add</i>	37.51	
<i>For Elevated Installation >25' To 30', Add</i>	52.51	
<i>For Elevated Installation >30' To 35', Add</i>	60.01	
<i>For Elevated Installation >35' To 40', Add</i>	75.02	
<i>For Elevated Installation >40', Add</i>	82.52	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0417	EA		4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,801.73	65.01
			<i>For Work In Restricted Working Space, Add</i>	48.75	
			<i>For Elevated Installation >10' To 15', Add</i>	16.25	
			<i>For Elevated Installation >15' To 20', Add</i>	32.50	
			<i>For Elevated Installation >20' To 25', Add</i>	40.63	
			<i>For Elevated Installation >25' To 30', Add</i>	56.88	
			<i>For Elevated Installation >30' To 35', Add</i>	65.00	
			<i>For Elevated Installation >35' To 40', Add</i>	81.26	
			<i>For Elevated Installation >40', Add</i>	89.38	
26 05 33 13-0418	EA		5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,710.00	80.01
			<i>For Work In Restricted Working Space, Add</i>	60.01	
			<i>For Elevated Installation >10' To 15', Add</i>	20.00	
			<i>For Elevated Installation >15' To 20', Add</i>	40.00	
			<i>For Elevated Installation >20' To 25', Add</i>	50.01	
			<i>For Elevated Installation >25' To 30', Add</i>	70.01	
			<i>For Elevated Installation >30' To 35', Add</i>	80.01	
			<i>For Elevated Installation >35' To 40', Add</i>	100.01	
			<i>For Elevated Installation >40', Add</i>	110.01	
26 05 33 13-0419	EA		6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,358.70	88.76
			<i>For Work In Restricted Working Space, Add</i>	66.61	
			<i>For Elevated Installation >10' To 15', Add</i>	22.20	
			<i>For Elevated Installation >15' To 20', Add</i>	44.41	
			<i>For Elevated Installation >20' To 25', Add</i>	55.51	
			<i>For Elevated Installation >25' To 30', Add</i>	77.71	
			<i>For Elevated Installation >30' To 35', Add</i>	88.81	
			<i>For Elevated Installation >35' To 40', Add</i>	111.02	
			<i>For Elevated Installation >40', Add</i>	122.12	
26 05 33 13-0420			Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings <small>(26 05 33 13-0059)</small> Note: Type DX		
26 05 33 13-0421	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	272.99	20.00
			<i>For Work In Restricted Working Space, Add</i>	15.00	
			<i>For Elevated Installation >10' To 15', Add</i>	5.00	
			<i>For Elevated Installation >15' To 20', Add</i>	10.00	
			<i>For Elevated Installation >20' To 25', Add</i>	12.50	
			<i>For Elevated Installation >25' To 30', Add</i>	17.50	
			<i>For Elevated Installation >30' To 35', Add</i>	20.00	
			<i>For Elevated Installation >35' To 40', Add</i>	25.01	
			<i>For Elevated Installation >40', Add</i>	27.51	
26 05 33 13-0422	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	325.08	22.50
			<i>For Work In Restricted Working Space, Add</i>	16.88	
			<i>For Elevated Installation >10' To 15', Add</i>	5.63	
			<i>For Elevated Installation >15' To 20', Add</i>	11.25	
			<i>For Elevated Installation >20' To 25', Add</i>	14.07	
			<i>For Elevated Installation >25' To 30', Add</i>	19.69	
			<i>For Elevated Installation >30' To 35', Add</i>	22.50	
			<i>For Elevated Installation >35' To 40', Add</i>	28.13	
			<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0423	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	392.74	25.01
			<i>For Work In Restricted Working Space, Add</i>	18.75	
			<i>For Elevated Installation >10' To 15', Add</i>	6.25	
			<i>For Elevated Installation >15' To 20', Add</i>	12.50	
			<i>For Elevated Installation >20' To 25', Add</i>	15.63	
			<i>For Elevated Installation >25' To 30', Add</i>	21.88	
			<i>For Elevated Installation >30' To 35', Add</i>	25.00	
			<i>For Elevated Installation >35' To 40', Add</i>	31.26	
			<i>For Elevated Installation >40', Add</i>	34.38	
26 05 33 13-0424	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	461.53	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.07	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.82	
26 05 33 13-0425	EA		1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	510.34	30.01
			<i>For Work In Restricted Working Space, Add</i>	22.50	
			<i>For Elevated Installation >10' To 15', Add</i>	7.50	
			<i>For Elevated Installation >15' To 20', Add</i>	15.00	
			<i>For Elevated Installation >20' To 25', Add</i>	18.75	
			<i>For Elevated Installation >25' To 30', Add</i>	26.25	
			<i>For Elevated Installation >30' To 35', Add</i>	30.00	
			<i>For Elevated Installation >35' To 40', Add</i>	37.51	
			<i>For Elevated Installation >40', Add</i>	41.26	
26 05 33 13-0426	EA		2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	630.29	32.50
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.31	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0427 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	832.79	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0428 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,056.07	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0429 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,188.64	60.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.02	
For Elevated Installation >40', Add	82.52	
26 05 33 13-0430 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,440.64	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	
26 05 33 13-0431 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	2,461.00	80.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
26 05 33 13-0432 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	3,909.37	88.76
For Work In Restricted Working Space, Add	66.61	
For Elevated Installation >10' To 15', Add	22.20	
For Elevated Installation >15' To 20', Add	44.41	
For Elevated Installation >20' To 25', Add	55.51	
For Elevated Installation >25' To 30', Add	77.71	
For Elevated Installation >30' To 35', Add	88.81	
For Elevated Installation >35' To 40', Add	111.02	
For Elevated Installation >40', Add	122.12	
26 05 33 13-0433 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers <small>(26 05 33 13-0059)</small>		
26 05 33 13-0434 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	70.98	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0435 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper.....	81.88	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0436 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper.....	100.89	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0437 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	141.60	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0438 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	214.52	30.01
For Work In Restricted Working Space, Add	22.51	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.76	
For Elevated Installation >25' To 30', Add	26.26	
For Elevated Installation >30' To 35', Add	30.01	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0439 EA 5" To 6" Conduit, 14" Bonding Jumper.....	365.06	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0440 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper.....	78.86	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0441 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	91.83	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0442 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	110.00	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0443 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	153.70	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0444 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	230.57	30.01
For Work In Restricted Working Space, Add	22.51	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.76	
For Elevated Installation >25' To 30', Add	26.26	
For Elevated Installation >30' To 35', Add	30.01	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0445 EA 5" To 6" Conduit, 24" Bonding Jumper.....	416.82	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	

26 05 33 13-0446 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0447 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	108.50	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0448 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	129.02	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-0449 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	156.93	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.25	
26 05 33 13-0450 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	184.31	50.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-0451 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	239.43	56.26
For Work In Restricted Working Space, Add	33.75	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	
26 05 33 13-0452 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	289.45	62.51
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 05 33 13-0453 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	405.51	75.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.01	
26 05 33 13-0454 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	487.11	87.51
For Work In Restricted Working Space, Add	52.51	
For Elevated Installation >10' To 15', Add	17.50	
For Elevated Installation >15' To 20', Add	35.00	
For Elevated Installation >20' To 25', Add	43.76	
For Elevated Installation >25' To 30', Add	61.26	
For Elevated Installation >30' To 35', Add	70.01	
For Elevated Installation >35' To 40', Add	87.51	
For Elevated Installation >40', Add	96.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.51	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0455 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	1,100.12	100.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.01	
26 05 33 13-0456 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	1,266.76	112.51
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.01	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-0457 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)		
26 05 33 13-0458 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	15.88	7.50
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
26 05 33 13-0459 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	22.34	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0460 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	29.17	13.75
For Work In Restricted Working Space, Add	8.25	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.88	
For Elevated Installation >25' To 30', Add	9.63	
For Elevated Installation >30' To 35', Add	11.00	
For Elevated Installation >35' To 40', Add	13.75	
For Elevated Installation >40', Add	15.13	
26 05 33 13-0461 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	33.36	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0462 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	40.14	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0463 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	46.44	21.25
For Work In Restricted Working Space, Add	12.75	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
26 05 33 13-0464 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	56.34	23.75
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0465 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	65.24	26.88
For Work In Restricted Working Space, Add	16.13	
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
26 05 33 13-0466 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	74.28	29.38
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.57	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.32	
26 05 33 13-0467 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	78.67	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0468 Rigid Galvanized Steel (RGS) Sealing Locknut <small>(26 05 33 13-0059)</small>		
26 05 33 13-0469 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.27	1.25
26 05 33 13-0470 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.64	1.87
26 05 33 13-0471 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	7.72	3.13
26 05 33 13-0472 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	11.05	4.38
26 05 33 13-0473 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	13.03	5.00
26 05 33 13-0474 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	15.12	5.62
26 05 33 13-0475 Rigid Galvanized Steel (RGS) Fire Stop Fittings <small>(26 05 33 13-0059)</small>		
26 05 33 13-0476 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	221.16	15.17
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0477 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	224.82	16.63
For Work In Restricted Working Space, Add	12.48	
For Elevated Installation >10' To 15', Add	4.16	
For Elevated Installation >15' To 20', Add	8.32	
For Elevated Installation >20' To 25', Add	10.40	
For Elevated Installation >25' To 30', Add	14.56	
For Elevated Installation >30' To 35', Add	16.64	
For Elevated Installation >35' To 40', Add	20.80	
For Elevated Installation >40', Add	22.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.48	
26 05 33 13-0478 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	269.80	18.25
For Work In Restricted Working Space, Add	13.66	
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.11	
For Elevated Installation >20' To 25', Add	11.39	
For Elevated Installation >25' To 30', Add	15.94	
For Elevated Installation >30' To 35', Add	18.22	
For Elevated Installation >35' To 40', Add	22.77	
For Elevated Installation >40', Add	25.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 05 33 13-0479 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	296.18	20.00
For Work In Restricted Working Space, Add	15.02	
For Elevated Installation >10' To 15', Add	5.01	
For Elevated Installation >15' To 20', Add	10.01	
For Elevated Installation >20' To 25', Add	12.51	
For Elevated Installation >25' To 30', Add	17.52	
For Elevated Installation >30' To 35', Add	20.02	
For Elevated Installation >35' To 40', Add	25.03	
For Elevated Installation >40', Add	27.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.02	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0480 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	337.95	22.50
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0481 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	500.11	25.01
For Work In Restricted Working Space, Add	18.76	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.51	
For Elevated Installation >20' To 25', Add	15.64	
For Elevated Installation >25' To 30', Add	21.89	
For Elevated Installation >30' To 35', Add	25.02	
For Elevated Installation >35' To 40', Add	31.27	
For Elevated Installation >40', Add	34.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.76	
26 05 33 13-0482 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	575.66	33.38
For Work In Restricted Working Space, Add	25.02	
For Elevated Installation >10' To 15', Add	8.34	
For Elevated Installation >15' To 20', Add	16.68	
For Elevated Installation >20' To 25', Add	20.85	
For Elevated Installation >25' To 30', Add	29.19	
For Elevated Installation >30' To 35', Add	33.36	
For Elevated Installation >35' To 40', Add	41.70	
For Elevated Installation >40', Add	45.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.02	
26 05 33 13-0483 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	638.61	36.63
For Work In Restricted Working Space, Add	27.49	
For Elevated Installation >10' To 15', Add	9.16	
For Elevated Installation >15' To 20', Add	18.33	
For Elevated Installation >20' To 25', Add	22.91	
For Elevated Installation >25' To 30', Add	32.07	
For Elevated Installation >30' To 35', Add	36.66	
For Elevated Installation >35' To 40', Add	45.82	
For Elevated Installation >40', Add	50.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.49	
26 05 33 13-0484 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	742.71	40.00
For Work In Restricted Working Space, Add	30.01	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.01	
For Elevated Installation >25' To 30', Add	35.01	
For Elevated Installation >30' To 35', Add	40.01	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.01	
26 05 33 13-0485 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	837.24	45.00
For Work In Restricted Working Space, Add	33.75	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	
26 05 33 13-0486 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,123.22	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 05 33 13-0487 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,396.78	55.50
For Work In Restricted Working Space, Add	41.63	
For Elevated Installation >10' To 15', Add	13.88	
For Elevated Installation >15' To 20', Add	27.75	
For Elevated Installation >20' To 25', Add	34.69	
For Elevated Installation >25' To 30', Add	48.57	
For Elevated Installation >30' To 35', Add	55.50	
For Elevated Installation >35' To 40', Add	69.38	
For Elevated Installation >40', Add	76.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.63	

26 05 33 13-0488 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0059)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0489 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	19.97	9.69
<i>For Work In Restricted Working Space, Add</i>	5.81	
<i>For Elevated Installation >10' To 15', Add</i>	1.94	
<i>For Elevated Installation >15' To 20', Add</i>	3.87	
<i>For Elevated Installation >20' To 25', Add</i>	4.84	
<i>For Elevated Installation >25' To 30', Add</i>	6.78	
<i>For Elevated Installation >30' To 35', Add</i>	7.75	
<i>For Elevated Installation >35' To 40', Add</i>	9.69	
<i>For Elevated Installation >40', Add</i>	10.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.81	
26 05 33 13-0490 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.73	10.31
<i>For Work In Restricted Working Space, Add</i>	6.19	
<i>For Elevated Installation >10' To 15', Add</i>	2.06	
<i>For Elevated Installation >15' To 20', Add</i>	4.13	
<i>For Elevated Installation >20' To 25', Add</i>	5.16	
<i>For Elevated Installation >25' To 30', Add</i>	7.22	
<i>For Elevated Installation >30' To 35', Add</i>	8.25	
<i>For Elevated Installation >35' To 40', Add</i>	10.32	
<i>For Elevated Installation >40', Add</i>	11.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.19	
26 05 33 13-0491 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	22.35	10.62
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.31	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.38	
26 05 33 13-0492 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.73	10.93
<i>For Work In Restricted Working Space, Add</i>	6.56	
<i>For Elevated Installation >10' To 15', Add</i>	2.19	
<i>For Elevated Installation >15' To 20', Add</i>	4.38	
<i>For Elevated Installation >20' To 25', Add</i>	5.47	
<i>For Elevated Installation >25' To 30', Add</i>	7.66	
<i>For Elevated Installation >30' To 35', Add</i>	8.75	
<i>For Elevated Installation >35' To 40', Add</i>	10.94	
<i>For Elevated Installation >40', Add</i>	12.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.56	
26 05 33 13-0493 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	25.35	11.26
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation >10' To 15', Add</i>	2.25	
<i>For Elevated Installation >15' To 20', Add</i>	4.50	
<i>For Elevated Installation >20' To 25', Add</i>	5.63	
<i>For Elevated Installation >25' To 30', Add</i>	7.88	
<i>For Elevated Installation >30' To 35', Add</i>	9.00	
<i>For Elevated Installation >35' To 40', Add</i>	11.25	
<i>For Elevated Installation >40', Add</i>	12.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0494 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	26.60	11.88
<i>For Work In Restricted Working Space, Add</i>	7.13	
<i>For Elevated Installation >10' To 15', Add</i>	2.38	
<i>For Elevated Installation >15' To 20', Add</i>	4.75	
<i>For Elevated Installation >20' To 25', Add</i>	5.94	
<i>For Elevated Installation >25' To 30', Add</i>	8.31	
<i>For Elevated Installation >30' To 35', Add</i>	9.50	
<i>For Elevated Installation >35' To 40', Add</i>	11.88	
<i>For Elevated Installation >40', Add</i>	13.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-0495 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	28.46	12.50
<i>For Work In Restricted Working Space, Add</i>	7.50	
<i>For Elevated Installation >10' To 15', Add</i>	2.50	
<i>For Elevated Installation >15' To 20', Add</i>	5.00	
<i>For Elevated Installation >20' To 25', Add</i>	6.25	
<i>For Elevated Installation >25' To 30', Add</i>	8.75	
<i>For Elevated Installation >30' To 35', Add</i>	10.00	
<i>For Elevated Installation >35' To 40', Add</i>	12.51	
<i>For Elevated Installation >40', Add</i>	13.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.50	
26 05 33 13-0496 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.08	12.82
<i>For Work In Restricted Working Space, Add</i>	7.69	
<i>For Elevated Installation >10' To 15', Add</i>	2.56	
<i>For Elevated Installation >15' To 20', Add</i>	5.13	
<i>For Elevated Installation >20' To 25', Add</i>	6.41	
<i>For Elevated Installation >25' To 30', Add</i>	8.97	
<i>For Elevated Installation >30' To 35', Add</i>	10.25	
<i>For Elevated Installation >35' To 40', Add</i>	12.82	
<i>For Elevated Installation >40', Add</i>	14.10	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.69	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0497	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	30.33	13.44	
		For Work In Restricted Working Space, Add	8.06		
		For Elevated Installation >10' To 15', Add	2.69		
		For Elevated Installation >15' To 20', Add	5.38		
		For Elevated Installation >20' To 25', Add	6.72		
		For Elevated Installation >25' To 30', Add	9.41		
		For Elevated Installation >30' To 35', Add	10.75		
		For Elevated Installation >35' To 40', Add	13.44		
		For Elevated Installation >40', Add	14.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.06		
26 05 33 13-0498	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	31.58	14.06	
		For Work In Restricted Working Space, Add	8.44		
		For Elevated Installation >10' To 15', Add	2.81		
		For Elevated Installation >15' To 20', Add	5.63		
		For Elevated Installation >20' To 25', Add	7.03		
		For Elevated Installation >25' To 30', Add	9.85		
		For Elevated Installation >30' To 35', Add	11.25		
		For Elevated Installation >35' To 40', Add	14.07		
		For Elevated Installation >40', Add	15.47		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.44		
26 05 33 13-0499	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	35.70	14.06	
		For Work In Restricted Working Space, Add	8.44		
		For Elevated Installation >10' To 15', Add	2.81		
		For Elevated Installation >15' To 20', Add	5.63		
		For Elevated Installation >20' To 25', Add	7.03		
		For Elevated Installation >25' To 30', Add	9.85		
		For Elevated Installation >30' To 35', Add	11.25		
		For Elevated Installation >35' To 40', Add	14.07		
		For Elevated Installation >40', Add	15.47		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.44		
26 05 33 13-0500	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	36.32	14.37	
		For Work In Restricted Working Space, Add	8.63		
		For Elevated Installation >10' To 15', Add	2.88		
		For Elevated Installation >15' To 20', Add	5.75		
		For Elevated Installation >20' To 25', Add	7.19		
		For Elevated Installation >25' To 30', Add	10.06		
		For Elevated Installation >30' To 35', Add	11.50		
		For Elevated Installation >35' To 40', Add	14.38		
		For Elevated Installation >40', Add	15.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63		
26 05 33 13-0501	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	37.58	15.00	
		For Work In Restricted Working Space, Add	9.00		
		For Elevated Installation >10' To 15', Add	3.00		
		For Elevated Installation >15' To 20', Add	6.00		
		For Elevated Installation >20' To 25', Add	7.50		
		For Elevated Installation >25' To 30', Add	10.50		
		For Elevated Installation >30' To 35', Add	12.00		
		For Elevated Installation >35' To 40', Add	15.01		
		For Elevated Installation >40', Add	16.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.00		
26 05 33 13-0502	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	38.82	15.63	
		For Work In Restricted Working Space, Add	9.38		
		For Elevated Installation >10' To 15', Add	3.13		
		For Elevated Installation >15' To 20', Add	6.25		
		For Elevated Installation >20' To 25', Add	7.81		
		For Elevated Installation >25' To 30', Add	10.94		
		For Elevated Installation >30' To 35', Add	12.50		
		For Elevated Installation >35' To 40', Add	15.63		
		For Elevated Installation >40', Add	17.19		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38		
26 05 33 13-0503	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	41.95	17.19	
		For Work In Restricted Working Space, Add	10.31		
		For Elevated Installation >10' To 15', Add	3.44		
		For Elevated Installation >15' To 20', Add	6.88		
		For Elevated Installation >20' To 25', Add	8.60		
		For Elevated Installation >25' To 30', Add	12.03		
		For Elevated Installation >30' To 35', Add	13.75		
		For Elevated Installation >35' To 40', Add	17.19		
		For Elevated Installation >40', Add	18.91		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.31		
26 05 33 13-0504	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	51.85	20.32	
		For Work In Restricted Working Space, Add	12.19		
		For Elevated Installation >10' To 15', Add	4.06		
		For Elevated Installation >15' To 20', Add	8.13		
		For Elevated Installation >20' To 25', Add	10.16		
		For Elevated Installation >25' To 30', Add	14.22		
		For Elevated Installation >30' To 35', Add	16.25		
		For Elevated Installation >35' To 40', Add	20.32		
		For Elevated Installation >40', Add	22.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19		

26 05 33 13-0505 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0505)



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0506 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	2.56	1.25
<i>For Work In Restricted Working Space, Add</i>	0.75	
<i>For Elevated Installation >10' To 15', Add</i>	0.25	
<i>For Elevated Installation >15' To 20', Add</i>	0.50	
<i>For Elevated Installation >20' To 25', Add</i>	0.63	
<i>For Elevated Installation >25' To 30', Add</i>	0.88	
<i>For Elevated Installation >30' To 35', Add</i>	1.00	
<i>For Elevated Installation >35' To 40', Add</i>	1.25	
<i>For Elevated Installation >40', Add</i>	1.38	
26 05 33 13-0507 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	3.83	1.87
<i>For Work In Restricted Working Space, Add</i>	1.13	
<i>For Elevated Installation >10' To 15', Add</i>	0.38	
<i>For Elevated Installation >15' To 20', Add</i>	0.75	
<i>For Elevated Installation >20' To 25', Add</i>	0.94	
<i>For Elevated Installation >25' To 30', Add</i>	1.31	
<i>For Elevated Installation >30' To 35', Add</i>	1.50	
<i>For Elevated Installation >35' To 40', Add</i>	1.88	
<i>For Elevated Installation >40', Add</i>	2.06	
26 05 33 13-0508 EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	6.38	3.13
<i>For Work In Restricted Working Space, Add</i>	1.88	
<i>For Elevated Installation >10' To 15', Add</i>	0.63	
<i>For Elevated Installation >15' To 20', Add</i>	1.25	
<i>For Elevated Installation >20' To 25', Add</i>	1.56	
<i>For Elevated Installation >25' To 30', Add</i>	2.19	
<i>For Elevated Installation >30' To 35', Add</i>	2.50	
<i>For Elevated Installation >35' To 40', Add</i>	3.13	
<i>For Elevated Installation >40', Add</i>	3.44	
26 05 33 13-0509 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	8.96	4.38
<i>For Work In Restricted Working Space, Add</i>	2.63	
<i>For Elevated Installation >10' To 15', Add</i>	0.88	
<i>For Elevated Installation >15' To 20', Add</i>	1.75	
<i>For Elevated Installation >20' To 25', Add</i>	2.19	
<i>For Elevated Installation >25' To 30', Add</i>	3.06	
<i>For Elevated Installation >30' To 35', Add</i>	3.50	
<i>For Elevated Installation >35' To 40', Add</i>	4.38	
<i>For Elevated Installation >40', Add</i>	4.81	
26 05 33 13-0510 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	10.27	5.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Elevated Installation >10' To 15', Add</i>	1.00	
<i>For Elevated Installation >15' To 20', Add</i>	2.00	
<i>For Elevated Installation >20' To 25', Add</i>	2.50	
<i>For Elevated Installation >25' To 30', Add</i>	3.50	
<i>For Elevated Installation >30' To 35', Add</i>	4.00	
<i>For Elevated Installation >35' To 40', Add</i>	5.00	
<i>For Elevated Installation >40', Add</i>	5.50	
26 05 33 13-0511 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	11.60	5.62
<i>For Work In Restricted Working Space, Add</i>	3.38	
<i>For Elevated Installation >10' To 15', Add</i>	1.13	
<i>For Elevated Installation >15' To 20', Add</i>	2.25	
<i>For Elevated Installation >20' To 25', Add</i>	2.82	
<i>For Elevated Installation >25' To 30', Add</i>	3.94	
<i>For Elevated Installation >30' To 35', Add</i>	4.50	
<i>For Elevated Installation >35' To 40', Add</i>	5.63	
<i>For Elevated Installation >40', Add</i>	6.19	
26 05 33 13-0512 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	15.90	7.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33 13-0513 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	19.74	9.38
<i>For Work In Restricted Working Space, Add</i>	5.63	
<i>For Elevated Installation >10' To 15', Add</i>	1.88	
<i>For Elevated Installation >15' To 20', Add</i>	3.75	
<i>For Elevated Installation >20' To 25', Add</i>	4.69	
<i>For Elevated Installation >25' To 30', Add</i>	6.56	
<i>For Elevated Installation >30' To 35', Add</i>	7.50	
<i>For Elevated Installation >35' To 40', Add</i>	9.38	
<i>For Elevated Installation >40', Add</i>	10.31	
26 05 33 13-0514 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	22.90	10.62
<i>For Work In Restricted Working Space, Add</i>	6.38	
<i>For Elevated Installation >10' To 15', Add</i>	2.13	
<i>For Elevated Installation >15' To 20', Add</i>	4.25	
<i>For Elevated Installation >20' To 25', Add</i>	5.31	
<i>For Elevated Installation >25' To 30', Add</i>	7.44	
<i>For Elevated Installation >30' To 35', Add</i>	8.50	
<i>For Elevated Installation >35' To 40', Add</i>	10.63	
<i>For Elevated Installation >40', Add</i>	11.69	

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0515	EA		4" Rigid Galvanized Steel (RGS) Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	25.64 7.13 2.38 4.75 5.94 8.31 9.50 11.88 13.06	11.88
26 05 33 13-0516			Rigid Galvanized Steel (RGS) Grounding Locknuts <small>(26 05 33 13-0059)</small>		
26 05 33 13-0517	EA		1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	3.32 0.75 0.25 0.50 0.63 0.88 1.00 1.25 1.38	1.25
26 05 33 13-0518	EA		3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	4.73 1.13 0.38 0.75 0.94 1.31 1.50 1.88 2.06	1.87
26 05 33 13-0519	EA		1" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	7.66 1.88 0.63 1.25 1.56 2.19 2.50 3.13 3.44	3.13
26 05 33 13-0520	EA		1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	10.71 2.63 0.88 1.75 2.19 3.06 3.50 4.38 4.81	4.38
26 05 33 13-0521	EA		1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	12.15 3.00 1.00 2.00 2.50 3.50 4.00 5.00 5.50	5.00
26 05 33 13-0522	EA		2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	14.06 3.38 1.13 2.25 2.82 3.94 4.50 5.63 6.19	5.62
26 05 33 13-0523	EA		2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	20.20 4.50 1.50 3.00 3.75 5.25 6.00 7.50 8.25	7.50
26 05 33 13-0524	EA		3" Rigid Galvanized Steel (RGS) Grounding Locknuts <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	25.36 5.63 1.88 3.75 4.69 6.56 7.50 9.38 10.31	9.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0525 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	31.97	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0526 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	37.58	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
26 05 33 13-0527 Rigid Galvanized Steel (RGS) Insulated Ground Bushing <small>(26 05 33 13-0059)</small>		
26 05 33 13-0528 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	9.55	3.75
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
26 05 33 13-0529 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	12.23	5.00
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
26 05 33 13-0530 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	15.50	6.25
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
26 05 33 13-0531 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	23.35	10.00
For Work In Restricted Working Space, Add	6.00	
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.00	
For Elevated Installation >20' To 25', Add	5.00	
For Elevated Installation >25' To 30', Add	7.00	
For Elevated Installation >30' To 35', Add	8.00	
For Elevated Installation >35' To 40', Add	10.00	
For Elevated Installation >40', Add	11.00	
26 05 33 13-0532 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	26.29	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
26 05 33 13-0533 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	29.66	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0534 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	38.99	15.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.50	
For Elevated Installation >30' To 35', Add	12.00	
For Elevated Installation >35' To 40', Add	15.01	
For Elevated Installation >40', Add	16.51	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0535 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	47.79	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0536 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	60.63	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0537 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	74.52	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0538 Rigid Galvanized Steel (RGS) Threadless Compression Connectors <small>(26 05 33 13-0059)</small>		
26 05 33 13-0539 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	25.99	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
26 05 33 13-0540 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	30.63	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0541 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	40.03	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0542 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	54.02	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0543 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	72.88	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0544 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	106.40	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0545 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	176.26	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0546 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	221.75	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
26 05 33 13-0547 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	281.68	53.13
For Work In Restricted Working Space, Add	31.88	
For Elevated Installation >10' To 15', Add	10.63	
For Elevated Installation >15' To 20', Add	21.25	
For Elevated Installation >20' To 25', Add	26.57	
For Elevated Installation >25' To 30', Add	37.19	
For Elevated Installation >30' To 35', Add	42.50	
For Elevated Installation >35' To 40', Add	53.13	
For Elevated Installation >40', Add	58.44	
26 05 33 13-0548 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	339.77	62.51
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0549 Rigid Galvanized Steel (RGS) Compression Coupling <small>(26 05 33 13-0059)</small>		
26 05 33 13-0550 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	36.88	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0551 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	46.53	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0552 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling.....	65.75	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
26 05 33 13-0553 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling.....	85.82	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0554 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	105.36	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0555 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling.....	153.89	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
26 05 33 13-0556 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	239.83	50.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0557 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling.....	271.51	43.13
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.57	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
26 05 33 13-0558 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	375.13	65.64
For Work In Restricted Working Space, Add	39.38	
For Elevated Installation >10' To 15', Add	13.13	
For Elevated Installation >15' To 20', Add	26.25	
For Elevated Installation >20' To 25', Add	32.82	
For Elevated Installation >25' To 30', Add	45.94	
For Elevated Installation >30' To 35', Add	52.51	
For Elevated Installation >35' To 40', Add	65.64	
For Elevated Installation >40', Add	72.20	
26 05 33 13-0559 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling.....	462.06	75.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
26 05 33 13-0560 Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0561 EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal.....	6.42	3.13
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0562 EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal.....	7.73	3.75
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
26 05 33 13-0563 EA 1" Zinc Plated Steel Snap-in Knock Out Seal.....	9.11	4.38
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
26 05 33 13-0564 EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal.....	11.74	5.62
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.82	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0565 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	13.16	6.25
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
26 05 33 13-0566 EA 2" Zinc Plated Steel Snap-in Knock Out Seal	15.93	7.50
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
26 05 33 13-0567 Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0059)</small>		
26 05 33 13-0568 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal	7.29	3.13
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0569 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal	8.71	3.75
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
26 05 33 13-0570 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	10.42	4.38
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
26 05 33 13-0571 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	13.41	5.62
For Work In Restricted Working Space, Add	3.38	
For Elevated Installation >10' To 15', Add	1.13	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.82	
For Elevated Installation >25' To 30', Add	3.94	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.63	
For Elevated Installation >40', Add	6.19	
26 05 33 13-0572 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	15.94	6.25
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
26 05 33 13-0573 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	19.23	7.50
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
26 05 33 13-0574 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	23.73	9.38
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0575 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal.....	27.46	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0576 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	32.50	11.88
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
26 05 33 13-0577 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal.....	37.48	13.13
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
26 05 33 13-0578 Rigid Galvanized Steel (RGS) Chase Nipples <small>(26 05 33 13-0059)</small>		
26 05 33 13-0579 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	15.27	7.50
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.50	
26 05 33 13-0580 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	17.95	8.75
For Work In Restricted Working Space, Add	5.25	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.00	
For Elevated Installation >35' To 40', Add	8.75	
For Elevated Installation >40', Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.25	
26 05 33 13-0581 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple.....	22.22	10.62
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.38	
26 05 33 13-0582 EA 1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	26.70	12.50
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0583 EA 1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	33.42	15.63
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0584 EA 2" Rigid Galvanized Steel (RGS) Chase Nipple.....	41.02	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	
26 05 33 13-0585 EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	50.46	21.88
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-0586 EA 3" Rigid Galvanized Steel (RGS) Chase Nipple.....	56.88	25.01
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0587 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	68.41	28.13
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0588 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	87.98	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0589 Rigid Galvanized Steel (RGS) Pulling Elbow <small>(26 05 33 13-0589)</small>		
26 05 33 13-0590 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	27.12	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
26 05 33 13-0591 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	31.56	13.13
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
26 05 33 13-0592 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	38.82	15.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >10' To 15', Add	3.00	
For Elevated Installation >15' To 20', Add	6.00	
For Elevated Installation >20' To 25', Add	7.50	
For Elevated Installation >25' To 30', Add	10.50	
For Elevated Installation >30' To 35', Add	12.00	
For Elevated Installation >35' To 40', Add	15.01	
For Elevated Installation >40', Add	16.51	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0593 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	49.36	18.75
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
26 05 33 13-0594 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	63.82	22.50
For Work In Restricted Working Space, Add	13.50	
For Elevated Installation >10' To 15', Add	4.50	
For Elevated Installation >15' To 20', Add	9.00	
For Elevated Installation >20' To 25', Add	11.25	
For Elevated Installation >25' To 30', Add	15.75	
For Elevated Installation >30' To 35', Add	18.00	
For Elevated Installation >35' To 40', Add	22.50	
For Elevated Installation >40', Add	24.75	
26 05 33 13-0595 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	82.30	26.25
For Work In Restricted Working Space, Add	15.75	
For Elevated Installation >10' To 15', Add	5.25	
For Elevated Installation >15' To 20', Add	10.50	
For Elevated Installation >20' To 25', Add	13.13	
For Elevated Installation >25' To 30', Add	18.38	
For Elevated Installation >30' To 35', Add	21.00	
For Elevated Installation >35' To 40', Add	26.26	
For Elevated Installation >40', Add	28.88	
26 05 33 13-0596 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	109.19	30.01
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
26 05 33 13-0597 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	179.20	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0598 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0598)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0599 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0599)		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0600 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....	6.46	2.26
For >250 To 500, Deduct	-0.04	
For >500 To 1,000, Deduct	-0.34	
For >1,000, Deduct	-0.51	
For Installation In Metal Stud Wall, Add	0.56	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.84	
For Work In Restricted Working Space, Add	1.69	
For Elevated Installation >10' To 15', Add	0.56	
For Elevated Installation >15' To 20', Add	1.12	
For Elevated Installation >20' To 25', Add	1.41	
For Elevated Installation >25' To 30', Add	1.97	
For Elevated Installation >30' To 35', Add	2.25	
For Elevated Installation >35' To 40', Add	2.81	
For Elevated Installation >40', Add	3.09	
For Factory Applied Color Coating, Add	0.25	
26 05 33 13-0601 LF 3/4" Electrical Metallic Tubing (EMT) Conduit.....	7.56	2.50
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.41	
For >1,000, Deduct	-0.60	
For Installation In Metal Stud Wall, Add	0.63	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.56	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.94	
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
For Factory Applied Color Coating, Add	0.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0602 LF 1" Electrical Metallic Tubing (EMT) Conduit.....	9.07	2.75
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.51	
For >1,000, Deduct	-0.74	
For Installation In Metal Stud Wall, Add	0.69	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.72	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.03	
For Work In Restricted Working Space, Add	2.06	
For Elevated Installation >10' To 15', Add	0.69	
For Elevated Installation >15' To 20', Add	1.38	
For Elevated Installation >20' To 25', Add	1.72	
For Elevated Installation >25' To 30', Add	2.41	
For Elevated Installation >30' To 35', Add	2.75	
For Elevated Installation >35' To 40', Add	3.44	
For Elevated Installation >40', Add	3.78	
For Factory Applied Color Coating, Add	0.66	
26 05 33 13-0603 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit	11.20	3.10
For >250 To 500, Deduct	-0.17	
For >500 To 1,000, Deduct	-0.65	
For >1,000, Deduct	-0.93	
For Installation In Metal Stud Wall, Add	0.78	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.94	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.16	
For Work In Restricted Working Space, Add	2.33	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.55	
For Elevated Installation >20' To 25', Add	1.94	
For Elevated Installation >25' To 30', Add	2.71	
For Elevated Installation >30' To 35', Add	3.10	
For Elevated Installation >35' To 40', Add	3.88	
For Elevated Installation >40', Add	4.26	
For Factory Applied Color Coating, Add	1.04	
26 05 33 13-0604 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit	13.04	3.50
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.76	
For >1,000, Deduct	-1.09	
For Installation In Metal Stud Wall, Add	0.88	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.19	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.31	
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
For Factory Applied Color Coating, Add	1.29	
26 05 33 13-0605 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	15.09	4.00
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.88	
For >1,000, Deduct	-1.26	
For Installation In Metal Stud Wall, Add	1.00	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.50	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.50	
For Work In Restricted Working Space, Add	3.00	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
For Factory Applied Color Coating, Add	1.53	
26 05 33 13-0606 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit	19.42	4.75
For >250 To 500, Deduct	-0.38	
For >500 To 1,000, Deduct	-1.16	
For >1,000, Deduct	-1.65	
For Installation In Metal Stud Wall, Add	1.19	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.97	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.78	
For Work In Restricted Working Space, Add	3.56	
For Elevated Installation >10' To 15', Add	1.19	
For Elevated Installation >15' To 20', Add	2.38	
For Elevated Installation >20' To 25', Add	2.97	
For Elevated Installation >25' To 30', Add	4.16	
For Elevated Installation >30' To 35', Add	4.75	
For Elevated Installation >35' To 40', Add	5.94	
For Elevated Installation >40', Add	6.53	
For Factory Applied Color Coating, Add	2.26	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0607	LF	3"	Electrical Metallic Tubing (EMT) Conduit.....	23.19	5.50
			For >250 To 500, Deduct	-0.47	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.98	
			For Installation In Metal Stud Wall, Add	1.38	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.44	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.06	
			For Work In Restricted Working Space, Add	4.13	
			For Elevated Installation >10' To 15', Add	1.38	
			For Elevated Installation >15' To 20', Add	2.75	
			For Elevated Installation >20' To 25', Add	3.44	
			For Elevated Installation >25' To 30', Add	4.81	
			For Elevated Installation >30' To 35', Add	5.50	
			For Elevated Installation >35' To 40', Add	6.88	
			For Elevated Installation >40', Add	7.56	
			For Factory Applied Color Coating, Add	2.83	
26 05 33 13-0608	LF	3-1/2"	Electrical Metallic Tubing (EMT) Conduit.....	28.88	6.50
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-1.76	
			For >1,000, Deduct	-2.48	
			For Installation In Metal Stud Wall, Add	1.63	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.07	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.44	
			For Work In Restricted Working Space, Add	4.88	
			For Elevated Installation >10' To 15', Add	1.63	
			For Elevated Installation >15' To 20', Add	3.25	
			For Elevated Installation >20' To 25', Add	4.07	
			For Elevated Installation >25' To 30', Add	5.69	
			For Elevated Installation >30' To 35', Add	6.50	
			For Elevated Installation >35' To 40', Add	8.13	
			For Elevated Installation >40', Add	8.94	
			For Factory Applied Color Coating, Add	3.79	
26 05 33 13-0609	LF	4"	Electrical Metallic Tubing (EMT) Conduit.....	38.12	9.56
			For >250 To 500, Deduct	-0.71	
			For >500 To 1,000, Deduct	-2.26	
			For >1,000, Deduct	-3.21	
			For Installation In Metal Stud Wall, Add	2.39	
			For Installation In Wood Stud Wall (Includes Drilling), Add	5.98	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.59	
			For Work In Restricted Working Space, Add	7.17	
			For Elevated Installation >10' To 15', Add	2.39	
			For Elevated Installation >15' To 20', Add	4.78	
			For Elevated Installation >20' To 25', Add	5.98	
			For Elevated Installation >25' To 30', Add	8.37	
			For Elevated Installation >30' To 35', Add	9.56	
			For Elevated Installation >35' To 40', Add	11.95	
			For Elevated Installation >40', Add	13.15	
			For Factory Applied Color Coating, Add	4.27	
26 05 33 13-0610			Electrical Metallic Tubing (EMT) 90 Degree Elbows <small>(26 05 33 13-0598)</small>		
			See CSI section 26 05 33 13-2224 for conduit field bending.		
26 05 33 13-0611			Electrical Metallic Tubing (EMT) Set Screw Couplings <small>(26 05 33 13-0598)</small>		
26 05 33 13-0612	EA	1/2"	Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.50	3.00
			For Work In Restricted Working Space, Add	1.88	
			For Elevated Installation >10' To 15', Add	0.63	
			For Elevated Installation >15' To 20', Add	1.25	
			For Elevated Installation >20' To 25', Add	1.56	
			For Elevated Installation >25' To 30', Add	2.19	
			For Elevated Installation >30' To 35', Add	2.50	
			For Elevated Installation >35' To 40', Add	3.13	
			For Elevated Installation >40', Add	3.44	
26 05 33 13-0613	EA	3/4"	Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.87	3.00
			For Work In Restricted Working Space, Add	2.25	
			For Elevated Installation >10' To 15', Add	0.75	
			For Elevated Installation >15' To 20', Add	1.50	
			For Elevated Installation >20' To 25', Add	1.88	
			For Elevated Installation >25' To 30', Add	2.63	
			For Elevated Installation >30' To 35', Add	3.00	
			For Elevated Installation >35' To 40', Add	3.75	
			For Elevated Installation >40', Add	4.13	
26 05 33 13-0614	EA	1"	Electrical Metallic Tubing (EMT) Set Screw Coupling.....	9.31	3.50
			For Work In Restricted Working Space, Add	2.63	
			For Elevated Installation >10' To 15', Add	0.88	
			For Elevated Installation >15' To 20', Add	1.75	
			For Elevated Installation >20' To 25', Add	2.19	
			For Elevated Installation >25' To 30', Add	3.06	
			For Elevated Installation >30' To 35', Add	3.50	
			For Elevated Installation >35' To 40', Add	4.38	
			For Elevated Installation >40', Add	4.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	12.47 3.38 1.13 2.25 2.81 3.94 4.50 5.63 6.19	4.50
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	15.37 4.13 1.38 2.75 3.44 4.81 5.50 6.88 7.56	5.50
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	20.90 5.63 1.88 3.75 4.69 6.56 7.50 9.38 10.31	7.50
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	28.78 7.50 2.50 5.00 6.25 8.75 10.00 12.51 13.76	10.00
26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	37.11 9.38 3.13 6.25 7.81 10.94 12.50 15.63 17.19	11.51
26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	42.14 11.25 3.75 7.50 9.38 13.13 15.00 18.75 20.63	12.50
26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	120.45 33.65 11.22 22.44 28.05 39.26 44.87 56.09 61.70	34.66
26 05 33 13-0622 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0598)		
26 05 33 13-0623 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	8.12 2.25 0.75 1.50 1.88 2.63 3.00 3.75 4.13	3.00
26 05 33 13-0624 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	9.43 2.63 0.88 1.75 2.19 3.06 3.50 4.38 4.81	3.50

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0625 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	13.45	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation >10' To 15', Add</i>	1.25	
<i>For Elevated Installation >15' To 20', Add</i>	2.50	
<i>For Elevated Installation >20' To 25', Add</i>	3.13	
<i>For Elevated Installation >25' To 30', Add</i>	4.38	
<i>For Elevated Installation >30' To 35', Add</i>	5.00	
<i>For Elevated Installation >35' To 40', Add</i>	6.25	
<i>For Elevated Installation >40', Add</i>	6.88	
26 05 33 13-0626 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	16.98	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Elevated Installation >10' To 15', Add</i>	1.50	
<i>For Elevated Installation >15' To 20', Add</i>	3.00	
<i>For Elevated Installation >20' To 25', Add</i>	3.75	
<i>For Elevated Installation >25' To 30', Add</i>	5.25	
<i>For Elevated Installation >30' To 35', Add</i>	6.00	
<i>For Elevated Installation >35' To 40', Add</i>	7.50	
<i>For Elevated Installation >40', Add</i>	8.25	
26 05 33 13-0627 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	20.29	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Elevated Installation >10' To 15', Add</i>	1.75	
<i>For Elevated Installation >15' To 20', Add</i>	3.50	
<i>For Elevated Installation >20' To 25', Add</i>	4.38	
<i>For Elevated Installation >25' To 30', Add</i>	6.13	
<i>For Elevated Installation >30' To 35', Add</i>	7.00	
<i>For Elevated Installation >35' To 40', Add</i>	8.75	
<i>For Elevated Installation >40', Add</i>	9.63	
26 05 33 13-0628 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	26.88	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation >10' To 15', Add</i>	2.25	
<i>For Elevated Installation >15' To 20', Add</i>	4.50	
<i>For Elevated Installation >20' To 25', Add</i>	5.63	
<i>For Elevated Installation >25' To 30', Add</i>	7.88	
<i>For Elevated Installation >30' To 35', Add</i>	9.00	
<i>For Elevated Installation >35' To 40', Add</i>	11.25	
<i>For Elevated Installation >40', Add</i>	12.38	
26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	41.46	12.00
<i>For Work In Restricted Working Space, Add</i>	9.00	
<i>For Elevated Installation >10' To 15', Add</i>	3.00	
<i>For Elevated Installation >15' To 20', Add</i>	6.00	
<i>For Elevated Installation >20' To 25', Add</i>	7.50	
<i>For Elevated Installation >25' To 30', Add</i>	10.50	
<i>For Elevated Installation >30' To 35', Add</i>	12.00	
<i>For Elevated Installation >35' To 40', Add</i>	15.01	
<i>For Elevated Installation >40', Add</i>	16.51	
26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.02	14.00
<i>For Work In Restricted Working Space, Add</i>	10.50	
<i>For Elevated Installation >10' To 15', Add</i>	3.50	
<i>For Elevated Installation >15' To 20', Add</i>	7.00	
<i>For Elevated Installation >20' To 25', Add</i>	8.75	
<i>For Elevated Installation >25' To 30', Add</i>	12.25	
<i>For Elevated Installation >30' To 35', Add</i>	14.00	
<i>For Elevated Installation >35' To 40', Add</i>	17.51	
<i>For Elevated Installation >40', Add</i>	19.26	
26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	60.04	17.50
<i>For Work In Restricted Working Space, Add</i>	13.13	
<i>For Elevated Installation >10' To 15', Add</i>	4.38	
<i>For Elevated Installation >15' To 20', Add</i>	8.75	
<i>For Elevated Installation >20' To 25', Add</i>	10.94	
<i>For Elevated Installation >25' To 30', Add</i>	15.32	
<i>For Elevated Installation >30' To 35', Add</i>	17.50	
<i>For Elevated Installation >35' To 40', Add</i>	21.88	
<i>For Elevated Installation >40', Add</i>	24.07	
26 05 33 13-0632 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	77.02	22.50
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation >10' To 15', Add</i>	5.63	
<i>For Elevated Installation >15' To 20', Add</i>	11.25	
<i>For Elevated Installation >20' To 25', Add</i>	14.07	
<i>For Elevated Installation >25' To 30', Add</i>	19.69	
<i>For Elevated Installation >30' To 35', Add</i>	22.50	
<i>For Elevated Installation >35' To 40', Add</i>	28.13	
<i>For Elevated Installation >40', Add</i>	30.94	
26 05 33 13-0633 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw ⁽²⁶		
<small>(05 33 13-0598)</small>		
26 05 33 13-0634 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.45	2.50
<i>For Work In Restricted Working Space, Add</i>	1.88	
<i>For Elevated Installation >10' To 15', Add</i>	0.63	
<i>For Elevated Installation >15' To 20', Add</i>	1.25	
<i>For Elevated Installation >20' To 25', Add</i>	1.56	
<i>For Elevated Installation >25' To 30', Add</i>	2.19	
<i>For Elevated Installation >30' To 35', Add</i>	2.50	
<i>For Elevated Installation >35' To 40', Add</i>	3.13	
<i>For Elevated Installation >40', Add</i>	3.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0635 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.82	3.00
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	
26 05 33 13-0636 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	9.31	3.50
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.63	
26 05 33 13-0637 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	13.53	5.00
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 33 13-0638 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	16.50	6.00
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.50	
26 05 33 13-0639 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	20.97	7.50
For Work In Restricted Working Space, Add	5.63	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0640 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	31.20	10.00
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0641 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	38.81	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0642 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	46.00	15.00
For Work In Restricted Working Space, Add	11.25	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.13	
For Elevated Installation >30' To 35', Add	15.00	
For Elevated Installation >35' To 40', Add	18.75	
For Elevated Installation >40', Add	20.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0643 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	53.60	17.50
<i>For Work In Restricted Working Space, Add</i>	13.13	
<i>For Elevated Installation >10' To 15', Add</i>	4.38	
<i>For Elevated Installation >15' To 20', Add</i>	8.75	
<i>For Elevated Installation >20' To 25', Add</i>	10.94	
<i>For Elevated Installation >25' To 30', Add</i>	15.32	
<i>For Elevated Installation >30' To 35', Add</i>	17.50	
<i>For Elevated Installation >35' To 40', Add</i>	21.88	
<i>For Elevated Installation >40', Add</i>	24.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.13	
26 05 33 13-0644 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw <small>(26 05 33 13-0598)</small>		
26 05 33 13-0645 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	8.71	3.38
<i>For Work In Restricted Working Space, Add</i>	2.51	
<i>For Elevated Installation >10' To 15', Add</i>	0.84	
<i>For Elevated Installation >15' To 20', Add</i>	1.68	
<i>For Elevated Installation >20' To 25', Add</i>	2.10	
<i>For Elevated Installation >25' To 30', Add</i>	2.93	
<i>For Elevated Installation >30' To 35', Add</i>	3.35	
<i>For Elevated Installation >35' To 40', Add</i>	4.19	
<i>For Elevated Installation >40', Add</i>	4.61	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.51	
26 05 33 13-0646 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.66	3.63
<i>For Work In Restricted Working Space, Add</i>	2.74	
<i>For Elevated Installation >10' To 15', Add</i>	0.91	
<i>For Elevated Installation >15' To 20', Add</i>	1.83	
<i>For Elevated Installation >20' To 25', Add</i>	2.28	
<i>For Elevated Installation >25' To 30', Add</i>	3.20	
<i>For Elevated Installation >30' To 35', Add</i>	3.65	
<i>For Elevated Installation >35' To 40', Add</i>	4.57	
<i>For Elevated Installation >40', Add</i>	5.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.74	
26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.06	4.50
<i>For Work In Restricted Working Space, Add</i>	3.34	
<i>For Elevated Installation >10' To 15', Add</i>	1.11	
<i>For Elevated Installation >15' To 20', Add</i>	2.22	
<i>For Elevated Installation >20' To 25', Add</i>	2.78	
<i>For Elevated Installation >25' To 30', Add</i>	3.89	
<i>For Elevated Installation >30' To 35', Add</i>	4.45	
<i>For Elevated Installation >35' To 40', Add</i>	5.56	
<i>For Elevated Installation >40', Add</i>	6.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.34	
26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.81	5.75
<i>For Work In Restricted Working Space, Add</i>	4.28	
<i>For Elevated Installation >10' To 15', Add</i>	1.43	
<i>For Elevated Installation >15' To 20', Add</i>	2.85	
<i>For Elevated Installation >20' To 25', Add</i>	3.56	
<i>For Elevated Installation >25' To 30', Add</i>	4.99	
<i>For Elevated Installation >30' To 35', Add</i>	5.70	
<i>For Elevated Installation >35' To 40', Add</i>	7.13	
<i>For Elevated Installation >40', Add</i>	7.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.28	
26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	18.71	6.62
<i>For Work In Restricted Working Space, Add</i>	4.99	
<i>For Elevated Installation >10' To 15', Add</i>	1.66	
<i>For Elevated Installation >15' To 20', Add</i>	3.33	
<i>For Elevated Installation >20' To 25', Add</i>	4.16	
<i>For Elevated Installation >25' To 30', Add</i>	5.82	
<i>For Elevated Installation >30' To 35', Add</i>	6.65	
<i>For Elevated Installation >35' To 40', Add</i>	8.32	
<i>For Elevated Installation >40', Add</i>	9.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.99	
26 05 33 13-0650 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	22.86	8.00
<i>For Work In Restricted Working Space, Add</i>	6.00	
<i>For Elevated Installation >10' To 15', Add</i>	2.00	
<i>For Elevated Installation >15' To 20', Add</i>	4.00	
<i>For Elevated Installation >20' To 25', Add</i>	5.00	
<i>For Elevated Installation >25' To 30', Add</i>	7.00	
<i>For Elevated Installation >30' To 35', Add</i>	8.00	
<i>For Elevated Installation >35' To 40', Add</i>	10.00	
<i>For Elevated Installation >40', Add</i>	11.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33 13-0651 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	37.12	11.12
<i>For Work In Restricted Working Space, Add</i>	8.33	
<i>For Elevated Installation >10' To 15', Add</i>	2.78	
<i>For Elevated Installation >15' To 20', Add</i>	5.55	
<i>For Elevated Installation >20' To 25', Add</i>	6.94	
<i>For Elevated Installation >25' To 30', Add</i>	9.71	
<i>For Elevated Installation >30' To 35', Add</i>	11.10	
<i>For Elevated Installation >35' To 40', Add</i>	13.88	
<i>For Elevated Installation >40', Add</i>	15.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0652 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	48.20	14.75
For Work In Restricted Working Space, Add	11.10	
For Elevated Installation >10' To 15', Add	3.70	
For Elevated Installation >15' To 20', Add	7.40	
For Elevated Installation >20' To 25', Add	9.25	
For Elevated Installation >25' To 30', Add	12.95	
For Elevated Installation >30' To 35', Add	14.80	
For Elevated Installation >35' To 40', Add	18.50	
For Elevated Installation >40', Add	20.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.10	
26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	61.63	19.00
For Work In Restricted Working Space, Add	14.29	
For Elevated Installation >10' To 15', Add	4.76	
For Elevated Installation >15' To 20', Add	9.53	
For Elevated Installation >20' To 25', Add	11.91	
For Elevated Installation >25' To 30', Add	16.67	
For Elevated Installation >30' To 35', Add	19.05	
For Elevated Installation >35' To 40', Add	23.82	
For Elevated Installation >40', Add	26.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.29	
26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	77.92	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0655 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33 13-0598)</small>		
26 05 33 13-0656 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.82	3.00
For Work In Restricted Working Space, Add	2.25	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.50	
For Elevated Installation >20' To 25', Add	1.88	
For Elevated Installation >25' To 30', Add	2.63	
For Elevated Installation >30' To 35', Add	3.00	
For Elevated Installation >35' To 40', Add	3.75	
For Elevated Installation >40', Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.25	
26 05 33 13-0657 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	9.24	3.50
For Work In Restricted Working Space, Add	2.63	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.63	
26 05 33 13-0658 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	13.19	5.00
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 33 13-0659 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	16.30	6.00
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.50	
26 05 33 13-0660 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	19.33	7.01
For Work In Restricted Working Space, Add	5.25	
For Elevated Installation >10' To 15', Add	1.75	
For Elevated Installation >15' To 20', Add	3.50	
For Elevated Installation >20' To 25', Add	4.38	
For Elevated Installation >25' To 30', Add	6.13	
For Elevated Installation >30' To 35', Add	7.00	
For Elevated Installation >35' To 40', Add	8.75	
For Elevated Installation >40', Add	9.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.25	



MINOR			TOTAL DIRECT		DEMOLITION		
CSI	UOM	DESCRIPTION	UNIT	COST	UNIT	COST	
26 05 33 13-0661	EA	2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector		25.16		9.00	
		For Work In Restricted Working Space, Add		6.75			
		For Elevated Installation >10' To 15', Add		2.25			
		For Elevated Installation >15' To 20', Add		4.50			
		For Elevated Installation >20' To 25', Add		5.63			
		For Elevated Installation >25' To 30', Add		7.88			
		For Elevated Installation >30' To 35', Add		9.00			
		For Elevated Installation >35' To 40', Add		11.25			
		For Elevated Installation >40', Add		12.38			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.75			
26 05 33 13-0662	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector		38.02		12.00	
		For Work In Restricted Working Space, Add		9.00			
		For Elevated Installation >10' To 15', Add		3.00			
		For Elevated Installation >15' To 20', Add		6.00			
		For Elevated Installation >20' To 25', Add		7.50			
		For Elevated Installation >25' To 30', Add		10.50			
		For Elevated Installation >30' To 35', Add		12.00			
		For Elevated Installation >35' To 40', Add		15.01			
		For Elevated Installation >40', Add		16.51			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		9.00			
26 05 33 13-0663	EA	3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector		47.97		15.00	
		For Work In Restricted Working Space, Add		11.25			
		For Elevated Installation >10' To 15', Add		3.75			
		For Elevated Installation >15' To 20', Add		7.50			
		For Elevated Installation >20' To 25', Add		9.38			
		For Elevated Installation >25' To 30', Add		13.13			
		For Elevated Installation >30' To 35', Add		15.00			
		For Elevated Installation >35' To 40', Add		18.75			
		For Elevated Installation >40', Add		20.63			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.25			
26 05 33 13-0664	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector		59.90		17.50	
		For Work In Restricted Working Space, Add		13.13			
		For Elevated Installation >10' To 15', Add		4.38			
		For Elevated Installation >15' To 20', Add		8.75			
		For Elevated Installation >20' To 25', Add		10.94			
		For Elevated Installation >25' To 30', Add		15.32			
		For Elevated Installation >30' To 35', Add		17.50			
		For Elevated Installation >35' To 40', Add		21.88			
		For Elevated Installation >40', Add		24.07			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.13			
26 05 33 13-0665	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector		67.50		20.00	
		For Work In Restricted Working Space, Add		15.00			
		For Elevated Installation >10' To 15', Add		5.00			
		For Elevated Installation >15' To 20', Add		10.00			
		For Elevated Installation >20' To 25', Add		12.50			
		For Elevated Installation >25' To 30', Add		17.50			
		For Elevated Installation >30' To 35', Add		20.00			
		For Elevated Installation >35' To 40', Add		25.00			
		For Elevated Installation >40', Add		27.50			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		15.00			
26 05 33 13-0666	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors						
	<small>(26 05 33 13-0598)</small>						
26 05 33 13-0667	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector		8.93		3.38	
		For Work In Restricted Working Space, Add		2.51			
		For Elevated Installation >10' To 15', Add		0.84			
		For Elevated Installation >15' To 20', Add		1.68			
		For Elevated Installation >20' To 25', Add		2.10			
		For Elevated Installation >25' To 30', Add		2.93			
		For Elevated Installation >30' To 35', Add		3.35			
		For Elevated Installation >35' To 40', Add		4.19			
		For Elevated Installation >40', Add		4.61			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.51			
26 05 33 13-0668	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector		9.89		3.63	
		For Work In Restricted Working Space, Add		2.74			
		For Elevated Installation >10' To 15', Add		0.91			
		For Elevated Installation >15' To 20', Add		1.83			
		For Elevated Installation >20' To 25', Add		2.28			
		For Elevated Installation >25' To 30', Add		3.20			
		For Elevated Installation >30' To 35', Add		3.65			
		For Elevated Installation >35' To 40', Add		4.57			
		For Elevated Installation >40', Add		5.02			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.74			
26 05 33 13-0669	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector		12.25		4.50	
		For Work In Restricted Working Space, Add		3.34			
		For Elevated Installation >10' To 15', Add		1.11			
		For Elevated Installation >15' To 20', Add		2.22			
		For Elevated Installation >20' To 25', Add		2.78			
		For Elevated Installation >25' To 30', Add		3.89			
		For Elevated Installation >30' To 35', Add		4.45			
		For Elevated Installation >35' To 40', Add		5.56			
		For Elevated Installation >40', Add		6.12			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.34			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0670 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	16.37	5.75
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	19.63	6.62
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	24.18	8.00
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0673 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	41.94	11.12
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0674 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	56.31	14.75
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0675 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	75.85	19.00
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0676 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	95.52	25.01
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
26 05 33 13-0677 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0598)		
Note: Excludes jumper.		
26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	63.99	16.63
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		
For Elevated Installation >15' To 20', Add		
For Elevated Installation >20' To 25', Add		
For Elevated Installation >25' To 30', Add		
For Elevated Installation >30' To 35', Add		
For Elevated Installation >35' To 40', Add		
For Elevated Installation >40', Add		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	77.14	20.13
For Work In Restricted Working Space, Add	15.13	
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.09	
For Elevated Installation >20' To 25', Add	12.61	
For Elevated Installation >25' To 30', Add	17.65	
For Elevated Installation >30' To 35', Add	20.17	
For Elevated Installation >35' To 40', Add	25.22	
For Elevated Installation >40', Add	27.74	
26 05 33 13-0680 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	94.93	25.26
For Work In Restricted Working Space, Add	18.91	
For Elevated Installation >10' To 15', Add	6.30	
For Elevated Installation >15' To 20', Add	12.61	
For Elevated Installation >20' To 25', Add	15.76	
For Elevated Installation >25' To 30', Add	22.06	
For Elevated Installation >30' To 35', Add	25.22	
For Elevated Installation >35' To 40', Add	31.52	
For Elevated Installation >40', Add	34.67	
26 05 33 13-0681 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	122.22	31.00
For Work In Restricted Working Space, Add	23.27	
For Elevated Installation >10' To 15', Add	7.76	
For Elevated Installation >15' To 20', Add	15.51	
For Elevated Installation >20' To 25', Add	19.39	
For Elevated Installation >25' To 30', Add	27.14	
For Elevated Installation >30' To 35', Add	31.02	
For Elevated Installation >35' To 40', Add	38.78	
For Elevated Installation >40', Add	42.65	
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	151.15	36.38
For Work In Restricted Working Space, Add	27.29	
For Elevated Installation >10' To 15', Add	9.10	
For Elevated Installation >15' To 20', Add	18.19	
For Elevated Installation >20' To 25', Add	22.74	
For Elevated Installation >25' To 30', Add	31.83	
For Elevated Installation >30' To 35', Add	36.38	
For Elevated Installation >35' To 40', Add	45.48	
For Elevated Installation >40', Add	50.02	
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	189.03	44.26
For Work In Restricted Working Space, Add	33.23	
For Elevated Installation >10' To 15', Add	11.08	
For Elevated Installation >15' To 20', Add	22.15	
For Elevated Installation >20' To 25', Add	27.69	
For Elevated Installation >25' To 30', Add	38.76	
For Elevated Installation >30' To 35', Add	44.30	
For Elevated Installation >35' To 40', Add	55.38	
For Elevated Installation >40', Add	60.91	
26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	351.78	56.88
For Work In Restricted Working Space, Add	42.67	
For Elevated Installation >10' To 15', Add	14.22	
For Elevated Installation >15' To 20', Add	28.45	
For Elevated Installation >20' To 25', Add	35.56	
For Elevated Installation >25' To 30', Add	49.78	
For Elevated Installation >30' To 35', Add	56.90	
For Elevated Installation >35' To 40', Add	71.12	
For Elevated Installation >40', Add	78.23	
26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	429.25	66.51
For Work In Restricted Working Space, Add	49.90	
For Elevated Installation >10' To 15', Add	16.63	
For Elevated Installation >15' To 20', Add	33.26	
For Elevated Installation >20' To 25', Add	41.58	
For Elevated Installation >25' To 30', Add	58.21	
For Elevated Installation >30' To 35', Add	66.53	
For Elevated Installation >35' To 40', Add	83.16	
For Elevated Installation >40', Add	91.48	
26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	524.19	72.51
For Work In Restricted Working Space, Add	54.40	
For Elevated Installation >10' To 15', Add	18.13	
For Elevated Installation >15' To 20', Add	36.27	
For Elevated Installation >20' To 25', Add	45.33	
For Elevated Installation >25' To 30', Add	63.47	
For Elevated Installation >30' To 35', Add	72.53	
For Elevated Installation >35' To 40', Add	90.67	
For Elevated Installation >40', Add	99.73	
26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	567.86	80.01
For Work In Restricted Working Space, Add	60.03	
For Elevated Installation >10' To 15', Add	20.01	
For Elevated Installation >15' To 20', Add	40.02	
For Elevated Installation >20' To 25', Add	50.02	
For Elevated Installation >25' To 30', Add	70.03	
For Elevated Installation >30' To 35', Add	80.04	
For Elevated Installation >35' To 40', Add	100.05	
For Elevated Installation >40', Add	110.05	

26 05 33 13-0688 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters

(26 05 33 13-0598)



Electrical 26
Common Work Results for Electrical 26 05
Raceway and Boxes for Electrical Systems 26 05 33

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0689 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.45	4.50
For Work In Restricted Working Space, Add	3.33	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.22	
For Elevated Installation >20' To 25', Add	2.78	
For Elevated Installation >25' To 30', Add	3.89	
For Elevated Installation >30' To 35', Add	4.44	
For Elevated Installation >35' To 40', Add	5.55	
For Elevated Installation >40', Add	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.33	
26 05 33 13-0690 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	13.18	4.50
For Work In Restricted Working Space, Add	3.33	
For Elevated Installation >10' To 15', Add	1.11	
For Elevated Installation >15' To 20', Add	2.22	
For Elevated Installation >20' To 25', Add	2.78	
For Elevated Installation >25' To 30', Add	3.89	
For Elevated Installation >30' To 35', Add	4.44	
For Elevated Installation >35' To 40', Add	5.55	
For Elevated Installation >40', Add	6.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.33	
26 05 33 13-0691 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.73	4.87
For Work In Restricted Working Space, Add	3.70	
For Elevated Installation >10' To 15', Add	1.23	
For Elevated Installation >15' To 20', Add	2.47	
For Elevated Installation >20' To 25', Add	3.09	
For Elevated Installation >25' To 30', Add	4.32	
For Elevated Installation >30' To 35', Add	4.94	
For Elevated Installation >35' To 40', Add	6.17	
For Elevated Installation >40', Add	6.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.70	
26 05 33 13-0692 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.11	5.62
For Work In Restricted Working Space, Add	4.21	
For Elevated Installation >10' To 15', Add	1.40	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.51	
For Elevated Installation >25' To 30', Add	4.91	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.02	
For Elevated Installation >40', Add	7.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.21	
26 05 33 13-0693 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	23.93	6.76
For Work In Restricted Working Space, Add	5.09	
For Elevated Installation >10' To 15', Add	1.70	
For Elevated Installation >15' To 20', Add	3.40	
For Elevated Installation >20' To 25', Add	4.25	
For Elevated Installation >25' To 30', Add	5.94	
For Elevated Installation >30' To 35', Add	6.79	
For Elevated Installation >35' To 40', Add	8.49	
For Elevated Installation >40', Add	9.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.09	
26 05 33 13-0694 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	29.07	7.75
For Work In Restricted Working Space, Add	5.82	
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.88	
For Elevated Installation >20' To 25', Add	4.85	
For Elevated Installation >25' To 30', Add	6.79	
For Elevated Installation >30' To 35', Add	7.76	
For Elevated Installation >35' To 40', Add	9.70	
For Elevated Installation >40', Add	10.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.82	
26 05 33 13-0695 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	37.74	9.75
For Work In Restricted Working Space, Add	7.28	
For Elevated Installation >10' To 15', Add	2.43	
For Elevated Installation >15' To 20', Add	4.85	
For Elevated Installation >20' To 25', Add	6.06	
For Elevated Installation >25' To 30', Add	8.49	
For Elevated Installation >30' To 35', Add	9.70	
For Elevated Installation >35' To 40', Add	12.13	
For Elevated Installation >40', Add	13.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.28	
26 05 33 13-0696 Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0698)		
26 05 33 13-0697 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	26.01	11.26
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >15' To 20', Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0698 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	30.32	13.13
For Work In Restricted Working Space, Add	7.88	
For Elevated Installation >15' To 20', Add	5.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.88	
26 05 33 13-0699 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	37.28	15.00
For Work In Restricted Working Space, Add	9.00	
For Elevated Installation >15' To 20', Add	6.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0700	EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	47.51	18.75
	<i>For Work In Restricted Working Space, Add</i>	11.25	
	<i>For Elevated Installation >15' To 20', Add</i>	7.50	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.25	
26 05 33 13-0701	Intermediate Metal Conduit (IMC) <small>(26 05 33 13-0058)</small>		
	Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0702	Intermediate Metal Conduit (IMC) Conduit <small>(26 05 33 13-0701)</small>		
	Note: Includes field bending conduit up to 1".		
26 05 33 13-0703	LF 1/2" Intermediate Metal Conduit (IMC) Conduit	8.77	2.50
	<i>For >250 To 500, Deduct</i>	-0.11	
	<i>For >500 To 1,000, Deduct</i>	-0.17	
	<i>For >1,000, Deduct</i>	-0.23	
	<i>For Installation In Metal Stub Wall, Add</i>	0.65	
	<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.63	
	<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.98	
	<i>For Work In Restricted Working Space, Add</i>	1.95	
	<i>For Elevated Installation >10' To 15', Add</i>	0.65	
	<i>For Elevated Installation >15' To 20', Add</i>	1.30	
	<i>For Elevated Installation >20' To 25', Add</i>	1.63	
	<i>For Elevated Installation >25' To 30', Add</i>	2.28	
	<i>For Elevated Installation >30' To 35', Add</i>	2.60	
	<i>For Elevated Installation >35' To 40', Add</i>	3.25	
	<i>For Elevated Installation >40', Add</i>	3.58	
26 05 33 13-0704	LF 3/4" Intermediate Metal Conduit (IMC) Conduit	10.45	2.75
	<i>For >250 To 500, Deduct</i>	-0.14	
	<i>For >500 To 1,000, Deduct</i>	-0.20	
	<i>For >1,000, Deduct</i>	-0.27	
	<i>For Installation In Metal Stub Wall, Add</i>	0.78	
	<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.94	
	<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.16	
	<i>For Work In Restricted Working Space, Add</i>	2.33	
	<i>For Elevated Installation >10' To 15', Add</i>	0.78	
	<i>For Elevated Installation >15' To 20', Add</i>	1.55	
	<i>For Elevated Installation >20' To 25', Add</i>	1.94	
	<i>For Elevated Installation >25' To 30', Add</i>	2.71	
	<i>For Elevated Installation >30' To 35', Add</i>	3.10	
	<i>For Elevated Installation >35' To 40', Add</i>	3.88	
	<i>For Elevated Installation >40', Add</i>	4.26	
26 05 33 13-0705	LF 1" Intermediate Metal Conduit (IMC) Conduit	13.93	3.00
	<i>For >250 To 500, Deduct</i>	-0.21	
	<i>For >500 To 1,000, Deduct</i>	-0.31	
	<i>For >1,000, Deduct</i>	-0.42	
	<i>For Installation In Metal Stub Wall, Add</i>	0.98	
	<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.44	
	<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.46	
	<i>For Work In Restricted Working Space, Add</i>	2.93	
	<i>For Elevated Installation >10' To 15', Add</i>	0.98	
	<i>For Elevated Installation >15' To 20', Add</i>	1.95	
	<i>For Elevated Installation >20' To 25', Add</i>	2.44	
	<i>For Elevated Installation >25' To 30', Add</i>	3.41	
	<i>For Elevated Installation >30' To 35', Add</i>	3.90	
	<i>For Elevated Installation >35' To 40', Add</i>	4.88	
	<i>For Elevated Installation >40', Add</i>	5.36	
26 05 33 13-0706	LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit	16.04	6.00
	<i>For >250 To 500, Deduct</i>	-0.26	
	<i>For >500 To 1,000, Deduct</i>	-0.40	
	<i>For >1,000, Deduct</i>	-0.53	
	<i>For Installation In Metal Stub Wall, Add</i>	1.08	
	<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.69	
	<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.61	
	<i>For Work In Restricted Working Space, Add</i>	3.23	
	<i>For Elevated Installation >10' To 15', Add</i>	1.08	
	<i>For Elevated Installation >15' To 20', Add</i>	2.15	
	<i>For Elevated Installation >20' To 25', Add</i>	2.69	
	<i>For Elevated Installation >25' To 30', Add</i>	3.76	
	<i>For Elevated Installation >30' To 35', Add</i>	4.30	
	<i>For Elevated Installation >35' To 40', Add</i>	5.38	
	<i>For Elevated Installation >40', Add</i>	5.91	
26 05 33 13-0707	LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit	18.00	4.00
	<i>For >250 To 500, Deduct</i>	-0.31	
	<i>For >500 To 1,000, Deduct</i>	-0.47	
	<i>For >1,000, Deduct</i>	-0.63	
	<i>For Installation In Metal Stub Wall, Add</i>	1.18	
	<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	2.94	
	<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.76	
	<i>For Work In Restricted Working Space, Add</i>	3.53	
	<i>For Elevated Installation >10' To 15', Add</i>	1.18	
	<i>For Elevated Installation >15' To 20', Add</i>	2.35	
	<i>For Elevated Installation >20' To 25', Add</i>	2.94	
	<i>For Elevated Installation >25' To 30', Add</i>	4.11	
	<i>For Elevated Installation >30' To 35', Add</i>	4.70	
	<i>For Elevated Installation >35' To 40', Add</i>	5.88	
	<i>For Elevated Installation >40', Add</i>	6.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0708 LF 2" Intermediate Metal Conduit (IMC) Conduit	22.72	4.50
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.64	
For >1,000, Deduct	-0.85	
For Installation In Metal Stub Wall, Add	1.43	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.56	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.14	
For Work In Restricted Working Space, Add	4.28	
For Elevated Installation >10' To 15', Add	1.43	
For Elevated Installation >15' To 20', Add	2.85	
For Elevated Installation >20' To 25', Add	3.56	
For Elevated Installation >25' To 30', Add	4.99	
For Elevated Installation >30' To 35', Add	5.70	
For Elevated Installation >35' To 40', Add	7.13	
For Elevated Installation >40', Add	7.84	
26 05 33 13-0709 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit	37.65	6.00
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.41	
For >1,000, Deduct	-1.88	
For Installation In Metal Stub Wall, Add	1.89	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.72	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.83	
For Work In Restricted Working Space, Add	5.66	
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.77	
For Elevated Installation >20' To 25', Add	4.72	
For Elevated Installation >25' To 30', Add	6.60	
For Elevated Installation >30' To 35', Add	7.55	
For Elevated Installation >35' To 40', Add	9.44	
For Elevated Installation >40', Add	10.38	
26 05 33 13-0710 LF 3" Intermediate Metal Conduit (IMC) Conduit	48.12	7.50
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.73	
For >1,000, Deduct	-2.31	
For Installation In Metal Stub Wall, Add	2.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.25	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.75	
For Work In Restricted Working Space, Add	7.50	
For Elevated Installation >10' To 15', Add	2.50	
For Elevated Installation >15' To 20', Add	5.00	
For Elevated Installation >20' To 25', Add	6.25	
For Elevated Installation >25' To 30', Add	8.75	
For Elevated Installation >30' To 35', Add	10.00	
For Elevated Installation >35' To 40', Add	12.51	
For Elevated Installation >40', Add	13.76	
26 05 33 13-0711 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit	55.39	9.00
For >250 To 500, Deduct	-1.34	
For >500 To 1,000, Deduct	-2.01	
For >1,000, Deduct	-2.68	
For Installation In Metal Stub Wall, Add	2.86	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.16	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.29	
For Work In Restricted Working Space, Add	8.59	
For Elevated Installation >10' To 15', Add	2.86	
For Elevated Installation >15' To 20', Add	5.72	
For Elevated Installation >20' To 25', Add	7.16	
For Elevated Installation >25' To 30', Add	10.02	
For Elevated Installation >30' To 35', Add	11.45	
For Elevated Installation >35' To 40', Add	14.31	
For Elevated Installation >40', Add	15.74	
26 05 33 13-0712 LF 4" Intermediate Metal Conduit (IMC) Conduit	64.88	10.50
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.36	
For >1,000, Deduct	-3.15	
For Installation In Metal Stub Wall, Add	3.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.01	
For Work In Restricted Working Space, Add	10.01	
For Elevated Installation >10' To 15', Add	3.34	
For Elevated Installation >15' To 20', Add	6.68	
For Elevated Installation >20' To 25', Add	8.35	
For Elevated Installation >25' To 30', Add	11.68	
For Elevated Installation >30' To 35', Add	13.35	
For Elevated Installation >35' To 40', Add	16.69	
For Elevated Installation >40', Add	18.36	

26 05 33 13-0713 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0701)
 See CSI section 26 05 33 13-2224 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0714 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	66.29	18.87
For Work In Restricted Working Space, Add	14.12	
For Elevated Installation >10' To 15', Add	4.71	
For Elevated Installation >15' To 20', Add	9.41	
For Elevated Installation >20' To 25', Add	11.77	
For Elevated Installation >25' To 30', Add	16.47	
For Elevated Installation >30' To 35', Add	18.83	
For Elevated Installation >35' To 40', Add	23.54	
For Elevated Installation >40', Add	25.89	
26 05 33 13-0715 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	81.60	21.88
For Work In Restricted Working Space, Add	16.40	
For Elevated Installation >10' To 15', Add	5.47	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.13	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.33	
For Elevated Installation >40', Add	30.06	
26 05 33 13-0716 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	96.81	25.13
For Work In Restricted Working Space, Add	18.82	
For Elevated Installation >10' To 15', Add	6.27	
For Elevated Installation >15' To 20', Add	12.54	
For Elevated Installation >20' To 25', Add	15.68	
For Elevated Installation >25' To 30', Add	21.95	
For Elevated Installation >30' To 35', Add	25.09	
For Elevated Installation >35' To 40', Add	31.36	
For Elevated Installation >40', Add	34.50	
26 05 33 13-0717 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	118.07	27.63
For Work In Restricted Working Space, Add	20.70	
For Elevated Installation >10' To 15', Add	6.90	
For Elevated Installation >15' To 20', Add	13.80	
For Elevated Installation >20' To 25', Add	17.25	
For Elevated Installation >25' To 30', Add	24.15	
For Elevated Installation >30' To 35', Add	27.60	
For Elevated Installation >35' To 40', Add	34.50	
For Elevated Installation >40', Add	37.95	
26 05 33 13-0718 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	169.57	34.51
For Work In Restricted Working Space, Add	25.88	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.25	
For Elevated Installation >20' To 25', Add	21.56	
For Elevated Installation >25' To 30', Add	30.19	
For Elevated Installation >30' To 35', Add	34.50	
For Elevated Installation >35' To 40', Add	43.13	
For Elevated Installation >40', Add	47.44	
26 05 33 13-0719 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	245.05	47.01
For Work In Restricted Working Space, Add	35.25	
For Elevated Installation >10' To 15', Add	11.75	
For Elevated Installation >15' To 20', Add	23.50	
For Elevated Installation >20' To 25', Add	29.38	
For Elevated Installation >25' To 30', Add	41.13	
For Elevated Installation >30' To 35', Add	47.00	
For Elevated Installation >35' To 40', Add	58.75	
For Elevated Installation >40', Add	64.63	
26 05 33 13-0720 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	357.71	53.01
For Work In Restricted Working Space, Add	39.76	
For Elevated Installation >10' To 15', Add	13.25	
For Elevated Installation >15' To 20', Add	26.51	
For Elevated Installation >20' To 25', Add	33.13	
For Elevated Installation >25' To 30', Add	46.39	
For Elevated Installation >30' To 35', Add	53.01	
For Elevated Installation >35' To 40', Add	66.27	
For Elevated Installation >40', Add	72.89	
26 05 33 13-0721 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	433.70	69.01
For Work In Restricted Working Space, Add	51.75	
For Elevated Installation >10' To 15', Add	17.25	
For Elevated Installation >15' To 20', Add	34.50	
For Elevated Installation >20' To 25', Add	43.12	
For Elevated Installation >25' To 30', Add	60.37	
For Elevated Installation >30' To 35', Add	69.00	
For Elevated Installation >35' To 40', Add	86.25	
For Elevated Installation >40', Add	94.87	
26 05 33 13-0722 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut <small>(26 05 33 13-0701)</small>		
26 05 33 13-0723 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	17.09	6.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0724 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	20.18	0.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.63	
26 05 33 13-0725 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	26.13	9.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-0726 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	31.92	11.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63	
26 05 33 13-0727 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	35.77	12.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0728 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	46.21	15.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.63	
26 05 33 13-0729 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	85.74	25.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-0730 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	105.66	34.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.50	
26 05 33 13-0731 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	138.61	40.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.38	
26 05 33 13-0732 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	163.69	47.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.25	
26 05 33 13-0733 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0701)		
Note: 3-Piece coupling.		
26 05 33 13-0734 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	56.52	20.00
<i>For Work In Restricted Working Space, Add</i>	15.02	
<i>For Elevated Installation >10' To 15', Add</i>	5.01	
<i>For Elevated Installation >15' To 20', Add</i>	10.01	
<i>For Elevated Installation >20' To 25', Add</i>	12.52	
<i>For Elevated Installation >25' To 30', Add</i>	17.52	
<i>For Elevated Installation >30' To 35', Add</i>	20.02	
<i>For Elevated Installation >35' To 40', Add</i>	25.03	
<i>For Elevated Installation >40', Add</i>	27.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.02	
26 05 33 13-0735 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	64.20	22.38
<i>For Work In Restricted Working Space, Add</i>	16.76	
<i>For Elevated Installation >10' To 15', Add</i>	5.59	
<i>For Elevated Installation >15' To 20', Add</i>	11.18	
<i>For Elevated Installation >20' To 25', Add</i>	13.97	
<i>For Elevated Installation >25' To 30', Add</i>	19.56	
<i>For Elevated Installation >30' To 35', Add</i>	22.35	
<i>For Elevated Installation >35' To 40', Add</i>	27.94	
<i>For Elevated Installation >40', Add</i>	30.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.76	
26 05 33 13-0736 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	78.29	24.88
<i>For Work In Restricted Working Space, Add</i>	18.67	
<i>For Elevated Installation >10' To 15', Add</i>	6.22	
<i>For Elevated Installation >15' To 20', Add</i>	12.45	
<i>For Elevated Installation >20' To 25', Add</i>	15.56	
<i>For Elevated Installation >25' To 30', Add</i>	21.78	
<i>For Elevated Installation >30' To 35', Add</i>	24.90	
<i>For Elevated Installation >35' To 40', Add</i>	31.12	
<i>For Elevated Installation >40', Add</i>	34.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.67	
26 05 33 13-0737 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	97.64	27.25
<i>For Work In Restricted Working Space, Add</i>	20.43	
<i>For Elevated Installation >10' To 15', Add</i>	6.81	
<i>For Elevated Installation >15' To 20', Add</i>	13.62	
<i>For Elevated Installation >20' To 25', Add</i>	17.03	
<i>For Elevated Installation >25' To 30', Add</i>	23.84	
<i>For Elevated Installation >30' To 35', Add</i>	27.24	
<i>For Elevated Installation >35' To 40', Add</i>	34.06	
<i>For Elevated Installation >40', Add</i>	37.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.43	
26 05 33 13-0738 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	111.58	29.76
<i>For Work In Restricted Working Space, Add</i>	22.36	
<i>For Elevated Installation >10' To 15', Add</i>	7.45	
<i>For Elevated Installation >15' To 20', Add</i>	14.90	
<i>For Elevated Installation >20' To 25', Add</i>	18.63	
<i>For Elevated Installation >25' To 30', Add</i>	26.08	
<i>For Elevated Installation >30' To 35', Add</i>	29.81	
<i>For Elevated Installation >35' To 40', Add</i>	37.26	
<i>For Elevated Installation >40', Add</i>	40.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.36	
26 05 33 13-0739 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	154.82	32.25
<i>For Work In Restricted Working Space, Add</i>	24.21	
<i>For Elevated Installation >10' To 15', Add</i>	8.07	
<i>For Elevated Installation >15' To 20', Add</i>	16.14	
<i>For Elevated Installation >20' To 25', Add</i>	20.18	
<i>For Elevated Installation >25' To 30', Add</i>	28.25	
<i>For Elevated Installation >30' To 35', Add</i>	32.28	
<i>For Elevated Installation >35' To 40', Add</i>	40.35	
<i>For Elevated Installation >40', Add</i>	44.39	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.21	
26 05 33 13-0740 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	258.56	40.00
<i>For Work In Restricted Working Space, Add</i>	30.00	
<i>For Elevated Installation >10' To 15', Add</i>	10.00	
<i>For Elevated Installation >15' To 20', Add</i>	20.00	
<i>For Elevated Installation >20' To 25', Add</i>	25.00	
<i>For Elevated Installation >25' To 30', Add</i>	35.00	
<i>For Elevated Installation >30' To 35', Add</i>	40.00	
<i>For Elevated Installation >35' To 40', Add</i>	50.01	
<i>For Elevated Installation >40', Add</i>	55.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0741	EA		3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	366.80	50.00
			<i>For Work In Restricted Working Space, Add</i>	37.50	
			<i>For Elevated Installation >10' To 15', Add</i>	12.50	
			<i>For Elevated Installation >15' To 20', Add</i>	25.00	
			<i>For Elevated Installation >20' To 25', Add</i>	31.25	
			<i>For Elevated Installation >25' To 30', Add</i>	43.75	
			<i>For Elevated Installation >30' To 35', Add</i>	50.00	
			<i>For Elevated Installation >35' To 40', Add</i>	62.51	
			<i>For Elevated Installation >40', Add</i>	68.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-0742	EA		3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	538.52	60.01
			<i>For Work In Restricted Working Space, Add</i>	45.02	
			<i>For Elevated Installation >10' To 15', Add</i>	15.01	
			<i>For Elevated Installation >15' To 20', Add</i>	30.01	
			<i>For Elevated Installation >20' To 25', Add</i>	37.52	
			<i>For Elevated Installation >25' To 30', Add</i>	52.52	
			<i>For Elevated Installation >30' To 35', Add</i>	60.03	
			<i>For Elevated Installation >35' To 40', Add</i>	75.04	
			<i>For Elevated Installation >40', Add</i>	82.54	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.02	
26 05 33 13-0743	EA		4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	622.31	65.01
			<i>For Work In Restricted Working Space, Add</i>	48.75	
			<i>For Elevated Installation >10' To 15', Add</i>	16.25	
			<i>For Elevated Installation >15' To 20', Add</i>	32.50	
			<i>For Elevated Installation >20' To 25', Add</i>	40.63	
			<i>For Elevated Installation >25' To 30', Add</i>	56.88	
			<i>For Elevated Installation >30' To 35', Add</i>	65.00	
			<i>For Elevated Installation >35' To 40', Add</i>	81.26	
			<i>For Elevated Installation >40', Add</i>	89.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.75	
26 05 33 13-0744 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0701)</small>					
26 05 33 13-0745	EA		1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	32.05	10.00
			<i>For Work In Restricted Working Space, Add</i>	7.50	
			<i>For Elevated Installation >10' To 15', Add</i>	2.50	
			<i>For Elevated Installation >15' To 20', Add</i>	5.00	
			<i>For Elevated Installation >20' To 25', Add</i>	6.25	
			<i>For Elevated Installation >25' To 30', Add</i>	8.75	
			<i>For Elevated Installation >30' To 35', Add</i>	10.00	
			<i>For Elevated Installation >35' To 40', Add</i>	12.51	
			<i>For Elevated Installation >40', Add</i>	13.76	
26 05 33 13-0746	EA		3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	35.82	11.00
			<i>For Work In Restricted Working Space, Add</i>	8.25	
			<i>For Elevated Installation >10' To 15', Add</i>	2.75	
			<i>For Elevated Installation >15' To 20', Add</i>	5.50	
			<i>For Elevated Installation >20' To 25', Add</i>	6.88	
			<i>For Elevated Installation >25' To 30', Add</i>	9.63	
			<i>For Elevated Installation >30' To 35', Add</i>	11.00	
			<i>For Elevated Installation >35' To 40', Add</i>	13.75	
			<i>For Elevated Installation >40', Add</i>	15.13	
26 05 33 13-0747	EA		1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	41.17	12.50
			<i>For Work In Restricted Working Space, Add</i>	9.38	
			<i>For Elevated Installation >10' To 15', Add</i>	3.13	
			<i>For Elevated Installation >15' To 20', Add</i>	6.25	
			<i>For Elevated Installation >20' To 25', Add</i>	7.82	
			<i>For Elevated Installation >25' To 30', Add</i>	10.94	
			<i>For Elevated Installation >30' To 35', Add</i>	12.50	
			<i>For Elevated Installation >35' To 40', Add</i>	15.63	
			<i>For Elevated Installation >40', Add</i>	17.19	
26 05 33 13-0748	EA		1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	46.84	13.50
			<i>For Work In Restricted Working Space, Add</i>	10.13	
			<i>For Elevated Installation >10' To 15', Add</i>	3.38	
			<i>For Elevated Installation >15' To 20', Add</i>	6.75	
			<i>For Elevated Installation >20' To 25', Add</i>	8.44	
			<i>For Elevated Installation >25' To 30', Add</i>	11.82	
			<i>For Elevated Installation >30' To 35', Add</i>	13.50	
			<i>For Elevated Installation >35' To 40', Add</i>	16.88	
			<i>For Elevated Installation >40', Add</i>	18.57	
26 05 33 13-0749	EA		1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	55.73	15.00
			<i>For Work In Restricted Working Space, Add</i>	11.25	
			<i>For Elevated Installation >10' To 15', Add</i>	3.75	
			<i>For Elevated Installation >15' To 20', Add</i>	7.50	
			<i>For Elevated Installation >20' To 25', Add</i>	9.38	
			<i>For Elevated Installation >25' To 30', Add</i>	13.13	
			<i>For Elevated Installation >30' To 35', Add</i>	15.00	
			<i>For Elevated Installation >35' To 40', Add</i>	18.75	
			<i>For Elevated Installation >40', Add</i>	20.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0750	EA		2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	68.21	16.50
			For Work In Restricted Working Space, Add	12.38	
			For Elevated Installation >10' To 15', Add	4.13	
			For Elevated Installation >15' To 20', Add	8.25	
			For Elevated Installation >20' To 25', Add	10.32	
			For Elevated Installation >25' To 30', Add	14.44	
			For Elevated Installation >30' To 35', Add	16.50	
			For Elevated Installation >35' To 40', Add	20.63	
			For Elevated Installation >40', Add	22.69	
26 05 33 13-0751	EA		2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	93.21	20.00
			For Work In Restricted Working Space, Add	15.00	
			For Elevated Installation >10' To 15', Add	5.00	
			For Elevated Installation >15' To 20', Add	10.00	
			For Elevated Installation >20' To 25', Add	12.50	
			For Elevated Installation >25' To 30', Add	17.50	
			For Elevated Installation >30' To 35', Add	20.00	
			For Elevated Installation >35' To 40', Add	25.00	
			For Elevated Installation >40', Add	27.50	
26 05 33 13-0752	EA		3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	115.23	25.01
			For Work In Restricted Working Space, Add	18.75	
			For Elevated Installation >10' To 15', Add	6.25	
			For Elevated Installation >15' To 20', Add	12.50	
			For Elevated Installation >20' To 25', Add	15.63	
			For Elevated Installation >25' To 30', Add	21.88	
			For Elevated Installation >30' To 35', Add	25.00	
			For Elevated Installation >35' To 40', Add	31.26	
			For Elevated Installation >40', Add	34.38	
26 05 33 13-0753	EA		3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	138.43	30.01
			For Work In Restricted Working Space, Add	22.50	
			For Elevated Installation >10' To 15', Add	7.50	
			For Elevated Installation >15' To 20', Add	15.00	
			For Elevated Installation >20' To 25', Add	18.75	
			For Elevated Installation >25' To 30', Add	26.25	
			For Elevated Installation >30' To 35', Add	30.00	
			For Elevated Installation >35' To 40', Add	37.51	
			For Elevated Installation >40', Add	41.26	
26 05 33 13-0754	EA		4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	156.57	32.50
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.50	
			For Elevated Installation >35' To 40', Add	40.63	
			For Elevated Installation >40', Add	44.69	
26 05 33 13-0755			Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0701)		
26 05 33 13-0756	EA		1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	27.94	10.00
			For Work In Restricted Working Space, Add	7.50	
			For Elevated Installation >10' To 15', Add	2.50	
			For Elevated Installation >15' To 20', Add	5.00	
			For Elevated Installation >20' To 25', Add	6.25	
			For Elevated Installation >25' To 30', Add	8.75	
			For Elevated Installation >30' To 35', Add	10.00	
			For Elevated Installation >35' To 40', Add	12.51	
			For Elevated Installation >40', Add	13.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.50	
26 05 33 13-0757	EA		3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	35.65	12.50
			For Work In Restricted Working Space, Add	9.38	
			For Elevated Installation >10' To 15', Add	3.13	
			For Elevated Installation >15' To 20', Add	6.25	
			For Elevated Installation >20' To 25', Add	7.81	
			For Elevated Installation >25' To 30', Add	10.94	
			For Elevated Installation >30' To 35', Add	12.50	
			For Elevated Installation >35' To 40', Add	15.63	
			For Elevated Installation >40', Add	17.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-0758	EA		1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	44.00	15.00
			For Work In Restricted Working Space, Add	11.25	
			For Elevated Installation >10' To 15', Add	3.75	
			For Elevated Installation >15' To 20', Add	7.50	
			For Elevated Installation >20' To 25', Add	9.38	
			For Elevated Installation >25' To 30', Add	13.13	
			For Elevated Installation >30' To 35', Add	15.00	
			For Elevated Installation >35' To 40', Add	18.75	
			For Elevated Installation >40', Add	20.63	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.25	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0759 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	52.96	17.50
For Work In Restricted Working Space, Add	13.13	
For Elevated Installation >10' To 15', Add	4.38	
For Elevated Installation >15' To 20', Add	8.75	
For Elevated Installation >20' To 25', Add	10.94	
For Elevated Installation >25' To 30', Add	15.32	
For Elevated Installation >30' To 35', Add	17.50	
For Elevated Installation >35' To 40', Add	21.88	
For Elevated Installation >40', Add	24.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.13	
26 05 33 13-0760 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	61.85	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.00	
For Elevated Installation >40', Add	27.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.00	
26 05 33 13-0761 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	73.37	22.50
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.88	
26 05 33 13-0762 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	91.21	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0763 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	107.40	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-0764 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	131.36	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0765 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	150.72	35.01
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.75	
For Elevated Installation >40', Add	48.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.25	
26 05 33 13-0766 Intermediate Metal Conduit (IMC) Expansion Fittings <small>(26 05 33 13-0701)</small>		
26 05 33 13-0767 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	176.85	20.00
For Work In Restricted Working Space, Add	15.00	
For Elevated Installation >10' To 15', Add	5.00	
For Elevated Installation >15' To 20', Add	10.00	
For Elevated Installation >20' To 25', Add	12.50	
For Elevated Installation >25' To 30', Add	17.50	
For Elevated Installation >30' To 35', Add	20.00	
For Elevated Installation >35' To 40', Add	25.01	
For Elevated Installation >40', Add	27.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0768 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	195.78	22.50
For Work In Restricted Working Space, Add	16.88	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.69	
For Elevated Installation >30' To 35', Add	22.50	
For Elevated Installation >35' To 40', Add	28.13	
For Elevated Installation >40', Add	30.94	
26 05 33 13-0769 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting	217.57	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
26 05 33 13-0770 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	262.19	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.07	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.82	
26 05 33 13-0771 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	320.37	30.01
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
26 05 33 13-0772 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting	419.60	32.50
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.31	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
26 05 33 13-0773 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	631.47	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
26 05 33 13-0774 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting	759.61	50.00
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
26 05 33 13-0775 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	1,056.62	60.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.01	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.02	
For Elevated Installation >40', Add	82.52	
26 05 33 13-0776 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting	1,221.00	65.01
For Work In Restricted Working Space, Add	48.75	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.50	
For Elevated Installation >20' To 25', Add	40.63	
For Elevated Installation >25' To 30', Add	56.88	
For Elevated Installation >30' To 35', Add	65.00	
For Elevated Installation >35' To 40', Add	81.26	
For Elevated Installation >40', Add	89.38	

26 05 33 13-0777 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0701)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0778 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	111.32	31.25
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-0779 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	132.33	37.50
For Work In Restricted Working Space, Add	22.50	
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.50	
26 05 33 13-0780 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	161.18	43.76
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.25	
26 05 33 13-0781 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	189.47	50.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-0782 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	247.20	56.26
For Work In Restricted Working Space, Add	33.75	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.75	
26 05 33 13-0783 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	299.52	62.51
For Work In Restricted Working Space, Add	37.50	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	25.00	
For Elevated Installation >20' To 25', Add	31.25	
For Elevated Installation >25' To 30', Add	43.75	
For Elevated Installation >30' To 35', Add	50.00	
For Elevated Installation >35' To 40', Add	62.51	
For Elevated Installation >40', Add	68.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 05 33 13-0784 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	421.15	75.01
For Work In Restricted Working Space, Add	45.01	
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.01	
26 05 33 13-0785 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	506.22	87.51
For Work In Restricted Working Space, Add	52.51	
For Elevated Installation >10' To 15', Add	17.50	
For Elevated Installation >15' To 20', Add	35.00	
For Elevated Installation >20' To 25', Add	43.76	
For Elevated Installation >25' To 30', Add	61.26	
For Elevated Installation >30' To 35', Add	70.01	
For Elevated Installation >35' To 40', Add	87.51	
For Elevated Installation >40', Add	96.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0786 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,155.23	100.01
For Work In Restricted Working Space, Add	60.01	
For Elevated Installation >10' To 15', Add	20.00	
For Elevated Installation >15' To 20', Add	40.00	
For Elevated Installation >20' To 25', Add	50.01	
For Elevated Installation >25' To 30', Add	70.01	
For Elevated Installation >30' To 35', Add	80.01	
For Elevated Installation >35' To 40', Add	100.01	
For Elevated Installation >40', Add	110.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.01	
26 05 33 13-0787 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,330.54	112.51
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.01	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-0788 Intermediate Metal Conduit (IMC) Threaded Couplings <small>(26 05 33 13-0701)</small>		
26 05 33 13-0789 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	16.66	6.00
For Work In Restricted Working Space, Add	4.50	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.24	
26 05 33 13-0790 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	23.28	8.50
For Work In Restricted Working Space, Add	6.38	
For Elevated Installation >10' To 15', Add	2.13	
For Elevated Installation >15' To 20', Add	4.25	
For Elevated Installation >20' To 25', Add	5.32	
For Elevated Installation >25' To 30', Add	7.44	
For Elevated Installation >30' To 35', Add	8.50	
For Elevated Installation >35' To 40', Add	10.63	
For Elevated Installation >40', Add	11.69	
26 05 33 13-0791 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling	30.49	11.00
For Work In Restricted Working Space, Add	8.24	
For Elevated Installation >10' To 15', Add	2.75	
For Elevated Installation >15' To 20', Add	5.50	
For Elevated Installation >20' To 25', Add	6.87	
For Elevated Installation >25' To 30', Add	9.62	
For Elevated Installation >30' To 35', Add	10.99	
For Elevated Installation >35' To 40', Add	13.74	
For Elevated Installation >40', Add	15.11	
26 05 33 13-0792 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling.....	35.03	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.82	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
26 05 33 13-0793 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling.....	42.24	15.00
For Work In Restricted Working Space, Add	11.24	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.50	
For Elevated Installation >20' To 25', Add	9.37	
For Elevated Installation >25' To 30', Add	13.12	
For Elevated Installation >30' To 35', Add	14.99	
For Elevated Installation >35' To 40', Add	18.74	
For Elevated Installation >40', Add	20.61	
26 05 33 13-0794 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	48.78	17.00
For Work In Restricted Working Space, Add	12.76	
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.01	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.39	
26 05 33 13-0795 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling.....	61.37	19.00
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.75	
For Elevated Installation >40', Add	26.13	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0796 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	72.71	21.50
For Work In Restricted Working Space, Add	16.13	
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
26 05 33 13-0797 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	84.10	23.50
For Work In Restricted Working Space, Add	17.63	
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.57	
For Elevated Installation >30' To 35', Add	23.51	
For Elevated Installation >35' To 40', Add	29.39	
For Elevated Installation >40', Add	32.32	
26 05 33 13-0798 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	88.02	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.62	
For Elevated Installation >25' To 30', Add	21.87	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.25	
For Elevated Installation >40', Add	34.37	
26 05 33 13-0799 Intermediate Metal Conduit (IMC) Reducer Bushings <small>(26 05 33 13-0701)</small>		
26 05 33 13-0800 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.11	2.50
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0801 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.18	2.50
For Work In Restricted Working Space, Add	1.88	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.25	
For Elevated Installation >20' To 25', Add	1.56	
For Elevated Installation >25' To 30', Add	2.19	
For Elevated Installation >30' To 35', Add	2.50	
For Elevated Installation >35' To 40', Add	3.13	
For Elevated Installation >40', Add	3.44	
26 05 33 13-0802 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0058)</small>		
Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0803 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0802)</small>		
Note: Includes field bending for conduit up to 1".		
26 05 33 13-0804 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	14.38	3.50
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.86	
For >1,000, Deduct	-1.22	
For Elevated Installation >10' To 15', Add	0.88	
For Elevated Installation >15' To 20', Add	1.75	
For Elevated Installation >20' To 25', Add	2.19	
For Elevated Installation >25' To 30', Add	3.06	
For Elevated Installation >30' To 35', Add	3.50	
For Elevated Installation >35' To 40', Add	4.38	
For Elevated Installation >40', Add	4.81	
For Work In Restricted Working Space, Add	2.63	
26 05 33 13-0805 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit	16.53	4.00
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.40	
For Elevated Installation >10' To 15', Add	1.00	
For Elevated Installation >15' To 20', Add	2.00	
For Elevated Installation >20' To 25', Add	2.50	
For Elevated Installation >25' To 30', Add	3.50	
For Elevated Installation >30' To 35', Add	4.00	
For Elevated Installation >35' To 40', Add	5.00	
For Elevated Installation >40', Add	5.50	
For Work In Restricted Working Space, Add	3.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0806 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	20.95	5.00
For >250 To 500, Deduct	-0.74	
For >500 To 1,000, Deduct	-1.26	
For >1,000, Deduct	-1.78	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.25	
For Elevated Installation >40', Add	6.88	
For Work In Restricted Working Space, Add	3.75	
26 05 33 13-0807 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	25.71	6.00
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.20	
For Elevated Installation >10' To 15', Add	1.50	
For Elevated Installation >15' To 20', Add	3.00	
For Elevated Installation >20' To 25', Add	3.75	
For Elevated Installation >25' To 30', Add	5.25	
For Elevated Installation >30' To 35', Add	6.00	
For Elevated Installation >35' To 40', Add	7.50	
For Elevated Installation >40', Add	8.25	
For Work In Restricted Working Space, Add	4.50	
26 05 33 13-0808 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	31.78	7.50
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.91	
For >1,000, Deduct	-2.71	
For Elevated Installation >10' To 15', Add	1.88	
For Elevated Installation >15' To 20', Add	3.75	
For Elevated Installation >20' To 25', Add	4.69	
For Elevated Installation >25' To 30', Add	6.56	
For Elevated Installation >30' To 35', Add	7.50	
For Elevated Installation >35' To 40', Add	9.38	
For Elevated Installation >40', Add	10.31	
For Work In Restricted Working Space, Add	5.63	
26 05 33 13-0809 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	39.48	9.00
For >250 To 500, Deduct	-1.41	
For >500 To 1,000, Deduct	-2.40	
For >1,000, Deduct	-3.39	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.88	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.38	
For Work In Restricted Working Space, Add	6.75	
26 05 33 13-0810 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	51.99	10.50
For >250 To 500, Deduct	-1.94	
For >500 To 1,000, Deduct	-3.24	
For >1,000, Deduct	-4.54	
For Elevated Installation >10' To 15', Add	2.63	
For Elevated Installation >15' To 20', Add	5.25	
For Elevated Installation >20' To 25', Add	6.56	
For Elevated Installation >25' To 30', Add	9.19	
For Elevated Installation >30' To 35', Add	10.50	
For Elevated Installation >35' To 40', Add	13.13	
For Elevated Installation >40', Add	14.44	
For Work In Restricted Working Space, Add	7.88	
26 05 33 13-0811 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	64.96	13.00
For >250 To 500, Deduct	-2.44	
For >500 To 1,000, Deduct	-4.06	
For >1,000, Deduct	-5.68	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.25	
For Elevated Installation >40', Add	17.88	
For Work In Restricted Working Space, Add	9.75	
26 05 33 13-0812 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	79.71	16.01
For >250 To 500, Deduct	-2.99	
For >500 To 1,000, Deduct	-4.98	
For >1,000, Deduct	-6.97	
For Elevated Installation >10' To 15', Add	4.00	
For Elevated Installation >15' To 20', Add	8.00	
For Elevated Installation >20' To 25', Add	10.00	
For Elevated Installation >25' To 30', Add	14.00	
For Elevated Installation >30' To 35', Add	16.00	
For Elevated Installation >35' To 40', Add	20.00	
For Elevated Installation >40', Add	22.00	
For Work In Restricted Working Space, Add	12.00	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0813	LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	94.32	19.00
	<i>For >250 To 500, Deduct</i>	-3.53	
	<i>For >500 To 1,000, Deduct</i>	-5.89	
	<i>For >1,000, Deduct</i>	-8.24	
	<i>For Elevated Installation >10' To 15', Add</i>	4.75	
	<i>For Elevated Installation >15' To 20', Add</i>	9.50	
	<i>For Elevated Installation >20' To 25', Add</i>	11.88	
	<i>For Elevated Installation >25' To 30', Add</i>	16.63	
	<i>For Elevated Installation >30' To 35', Add</i>	19.00	
	<i>For Elevated Installation >35' To 40', Add</i>	23.76	
	<i>For Elevated Installation >40', Add</i>	26.13	
	<i>For Work In Restricted Working Space, Add</i>	14.25	
26 05 33 13-0814	LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	139.21	22.50
	<i>For >250 To 500, Deduct</i>	-5.55	
	<i>For >500 To 1,000, Deduct</i>	-9.03	
	<i>For >1,000, Deduct</i>	-12.51	
	<i>For Elevated Installation >10' To 15', Add</i>	5.63	
	<i>For Elevated Installation >15' To 20', Add</i>	11.25	
	<i>For Elevated Installation >20' To 25', Add</i>	14.07	
	<i>For Elevated Installation >25' To 30', Add</i>	19.69	
	<i>For Elevated Installation >30' To 35', Add</i>	22.50	
	<i>For Elevated Installation >35' To 40', Add</i>	28.13	
	<i>For Elevated Installation >40', Add</i>	30.94	
	<i>For Work In Restricted Working Space, Add</i>	16.88	
26 05 33 13-0815	LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	188.68	30.01
	<i>For >250 To 500, Deduct</i>	-7.56	
	<i>For >500 To 1,000, Deduct</i>	-12.28	
	<i>For >1,000, Deduct</i>	-16.99	
	<i>For Elevated Installation >10' To 15', Add</i>	7.50	
	<i>For Elevated Installation >15' To 20', Add</i>	15.00	
	<i>For Elevated Installation >20' To 25', Add</i>	18.75	
	<i>For Elevated Installation >25' To 30', Add</i>	26.25	
	<i>For Elevated Installation >30' To 35', Add</i>	30.00	
	<i>For Elevated Installation >35' To 40', Add</i>	37.51	
	<i>For Elevated Installation >40', Add</i>	41.26	
	<i>For Work In Restricted Working Space, Add</i>	22.50	
26 05 33 13-0816	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings		
	<small>(26 05 33 13-0802)</small>		
26 05 33 13-0817	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	20.95	7.50
	<i>For Elevated Installation >10' To 15', Add</i>	1.50	
	<i>For Elevated Installation >15' To 20', Add</i>	3.00	
	<i>For Elevated Installation >20' To 25', Add</i>	3.75	
	<i>For Elevated Installation >25' To 30', Add</i>	5.25	
	<i>For Elevated Installation >30' To 35', Add</i>	6.00	
	<i>For Elevated Installation >35' To 40', Add</i>	7.50	
	<i>For Elevated Installation >40', Add</i>	8.25	
	<i>For Work In Restricted Working Space, Add</i>	4.50	
26 05 33 13-0818	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	27.49	10.62
	<i>For Elevated Installation >10' To 15', Add</i>	2.13	
	<i>For Elevated Installation >15' To 20', Add</i>	4.25	
	<i>For Elevated Installation >20' To 25', Add</i>	5.31	
	<i>For Elevated Installation >25' To 30', Add</i>	7.44	
	<i>For Elevated Installation >30' To 35', Add</i>	8.50	
	<i>For Elevated Installation >35' To 40', Add</i>	10.63	
	<i>For Elevated Installation >40', Add</i>	11.69	
	<i>For Work In Restricted Working Space, Add</i>	6.38	
26 05 33 13-0819	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	35.59	13.75
	<i>For Elevated Installation >10' To 15', Add</i>	2.75	
	<i>For Elevated Installation >15' To 20', Add</i>	5.50	
	<i>For Elevated Installation >20' To 25', Add</i>	6.88	
	<i>For Elevated Installation >25' To 30', Add</i>	9.63	
	<i>For Elevated Installation >30' To 35', Add</i>	11.00	
	<i>For Elevated Installation >35' To 40', Add</i>	13.75	
	<i>For Elevated Installation >40', Add</i>	15.13	
	<i>For Work In Restricted Working Space, Add</i>	8.25	
26 05 33 13-0820	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	40.69	15.63
	<i>For Elevated Installation >10' To 15', Add</i>	3.13	
	<i>For Elevated Installation >15' To 20', Add</i>	6.25	
	<i>For Elevated Installation >20' To 25', Add</i>	7.81	
	<i>For Elevated Installation >25' To 30', Add</i>	10.94	
	<i>For Elevated Installation >30' To 35', Add</i>	12.50	
	<i>For Elevated Installation >35' To 40', Add</i>	15.63	
	<i>For Elevated Installation >40', Add</i>	17.19	
	<i>For Work In Restricted Working Space, Add</i>	9.38	
26 05 33 13-0821	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	48.72	18.75
	<i>For Elevated Installation >10' To 15', Add</i>	3.75	
	<i>For Elevated Installation >15' To 20', Add</i>	7.50	
	<i>For Elevated Installation >20' To 25', Add</i>	9.38	
	<i>For Elevated Installation >25' To 30', Add</i>	13.13	
	<i>For Elevated Installation >30' To 35', Add</i>	15.00	
	<i>For Elevated Installation >35' To 40', Add</i>	18.75	
	<i>For Elevated Installation >40', Add</i>	20.63	
	<i>For Work In Restricted Working Space, Add</i>	11.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0822 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	58.93	21.25
For Elevated Installation >10' To 15', Add	4.25	
For Elevated Installation >15' To 20', Add	8.50	
For Elevated Installation >20' To 25', Add	10.63	
For Elevated Installation >25' To 30', Add	14.88	
For Elevated Installation >30' To 35', Add	17.00	
For Elevated Installation >35' To 40', Add	21.26	
For Elevated Installation >40', Add	23.38	
For Work In Restricted Working Space, Add	12.75	
26 05 33 13-0823 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	88.15	21.25
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
For Work In Restricted Working Space, Add	14.25	
26 05 33 13-0824 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	103.12	29.38
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
For Work In Restricted Working Space, Add	16.13	
26 05 33 13-0825 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	122.09	29.38
For Elevated Installation >10' To 15', Add	5.88	
For Elevated Installation >15' To 20', Add	11.75	
For Elevated Installation >20' To 25', Add	14.69	
For Elevated Installation >25' To 30', Add	20.57	
For Elevated Installation >30' To 35', Add	23.50	
For Elevated Installation >35' To 40', Add	29.38	
For Elevated Installation >40', Add	32.32	
For Work In Restricted Working Space, Add	17.63	
26 05 33 13-0826 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	136.55	31.25
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Work In Restricted Working Space, Add	18.75	
26 05 33 13-0827 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	316.28	37.50
For Elevated Installation >10' To 15', Add	7.50	
For Elevated Installation >15' To 20', Add	15.00	
For Elevated Installation >20' To 25', Add	18.75	
For Elevated Installation >25' To 30', Add	26.25	
For Elevated Installation >30' To 35', Add	30.00	
For Elevated Installation >35' To 40', Add	37.51	
For Elevated Installation >40', Add	41.26	
For Work In Restricted Working Space, Add	22.50	
26 05 33 13-0828 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	357.02	43.76
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Work In Restricted Working Space, Add	26.25	
26 05 33 13-0829 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
(RGS) Standard Radius Elbows <small>(26 05 33 13-0802)</small>		
Note: 90, 45, or 30 degree.		
26 05 33 13-0830 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	61.48	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-0831 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	72.03	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0832 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	86.58	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0833 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	102.02	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0834 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	118.75	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0835 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	141.71	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0836 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	210.72	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0837 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	310.29	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0838 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	378.96	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0839 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	442.76	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0840 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	892.19	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0841	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,395.66	274.66
			For Elevated Installation >10' To 15', Add	54.93	
			For Elevated Installation >15' To 20', Add	109.86	
			For Elevated Installation >20' To 25', Add	137.33	
			For Elevated Installation >25' To 30', Add	192.26	
			For Elevated Installation >30' To 35', Add	219.73	
			For Elevated Installation >35' To 40', Add	274.66	
			For Elevated Installation >40', Add	302.13	
			For Work In Restricted Working Space, Add	164.80	
26 05 33 13-0842			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0843	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	135.73	30.88
			For Elevated Installation >10' To 15', Add	6.18	
			For Elevated Installation >15' To 20', Add	12.35	
			For Elevated Installation >20' To 25', Add	15.44	
			For Elevated Installation >25' To 30', Add	21.62	
			For Elevated Installation >30' To 35', Add	24.70	
			For Elevated Installation >35' To 40', Add	30.88	
			For Elevated Installation >40', Add	33.97	
			For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0844	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	153.33	35.75
			For Elevated Installation >10' To 15', Add	7.15	
			For Elevated Installation >15' To 20', Add	14.30	
			For Elevated Installation >20' To 25', Add	17.88	
			For Elevated Installation >25' To 30', Add	25.03	
			For Elevated Installation >30' To 35', Add	28.60	
			For Elevated Installation >35' To 40', Add	35.76	
			For Elevated Installation >40', Add	39.33	
			For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0845	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	174.93	40.63
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.50	
			For Elevated Installation >35' To 40', Add	40.63	
			For Elevated Installation >40', Add	44.69	
			For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0846	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	206.53	44.69
			For Elevated Installation >10' To 15', Add	8.94	
			For Elevated Installation >15' To 20', Add	17.88	
			For Elevated Installation >20' To 25', Add	22.35	
			For Elevated Installation >25' To 30', Add	31.29	
			For Elevated Installation >30' To 35', Add	35.76	
			For Elevated Installation >35' To 40', Add	44.70	
			For Elevated Installation >40', Add	49.16	
			For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0847	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	284.08	56.07
			For Elevated Installation >10' To 15', Add	11.21	
			For Elevated Installation >15' To 20', Add	22.43	
			For Elevated Installation >20' To 25', Add	28.04	
			For Elevated Installation >25' To 30', Add	39.25	
			For Elevated Installation >30' To 35', Add	44.86	
			For Elevated Installation >35' To 40', Add	56.07	
			For Elevated Installation >40', Add	61.68	
			For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0848			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0849	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	149.02	30.88
			For Elevated Installation >10' To 15', Add	6.18	
			For Elevated Installation >15' To 20', Add	12.35	
			For Elevated Installation >20' To 25', Add	15.44	
			For Elevated Installation >25' To 30', Add	21.62	
			For Elevated Installation >30' To 35', Add	24.70	
			For Elevated Installation >35' To 40', Add	30.88	
			For Elevated Installation >40', Add	33.97	
			For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0850	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	175.29	35.75
			For Elevated Installation >10' To 15', Add	7.15	
			For Elevated Installation >15' To 20', Add	14.30	
			For Elevated Installation >20' To 25', Add	17.88	
			For Elevated Installation >25' To 30', Add	25.03	
			For Elevated Installation >30' To 35', Add	28.60	
			For Elevated Installation >35' To 40', Add	35.76	
			For Elevated Installation >40', Add	39.33	
			For Work In Restricted Working Space, Add	21.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0851 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	190.67	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0852 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	240.87	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0853 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	317.19	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0854 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	408.48	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0855 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0856 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	164.91	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0857 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	186.73	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0858 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	210.87	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0859 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	252.26	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0860 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	355.24	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0861 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	453.15	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-0862 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	566.03	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0863 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow	646.56	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0864 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0865 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	192.36	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0866 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	213.57	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0867 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	241.36	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0868 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	296.15	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0869 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	423.33	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-0870 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	528.83	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.55	
<i>For Elevated Installation >20' To 25', Add</i>	38.19	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.02	
<i>For Work In Restricted Working Space, Add</i>	45.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0871 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	612.23	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-0872 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	731.39	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0873 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0874 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	213.72	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0875 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	238.57	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0876 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	271.36	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0877 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	334.36	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0878 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	460.48	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0879 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	589.36	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0880 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	724.58	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0881 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	809.26	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0882 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	1,346.80	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-0883 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows		
<small>(26 05 33 13-0802)</small>		
26 05 33 13-0884 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	241.65	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0885 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	268.76	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0886 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	304.25	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0887 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	376.74	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0888 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	522.39	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0889 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	666.49	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0890 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	780.88	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0891 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	909.79	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0892 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,417.25	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-0893 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,952.35	274.66
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
For Work In Restricted Working Space, Add	164.80	
26 05 33 13-0894 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-0895 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	280.54	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-0896 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	295.68	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-0897 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	348.27	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0898 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	435.74	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-0899 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	605.87	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-0900 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	770.46	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0901 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	937.39	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-0902 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,105.35	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-0903 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,647.06	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-0904 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	2,057.84	274.66
<i>For Elevated Installation >10' To 15', Add</i>	54.93	
<i>For Elevated Installation >15' To 20', Add</i>	109.86	
<i>For Elevated Installation >20' To 25', Add</i>	137.33	
<i>For Elevated Installation >25' To 30', Add</i>	192.26	
<i>For Elevated Installation >30' To 35', Add</i>	219.73	
<i>For Elevated Installation >35' To 40', Add</i>	274.66	
<i>For Elevated Installation >40', Add</i>	302.13	
<i>For Work In Restricted Working Space, Add</i>	164.80	
26 05 33 13-0905 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows <small>(26 05 33 13-0902)</small>		
26 05 33 13-0906 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	289.90	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-0907 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	341.21	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-0908 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	386.33	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-0909 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	453.48	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-0910 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	626.72	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0911 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	802.43	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-0912 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,022.63	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-0913 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,149.70	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-0914 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,708.79	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-0915 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	2,111.44	274.66
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
For Work In Restricted Working Space, Add	164.80	
26 05 33 13-0916 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings (26 05 33 13-0902)		
26 05 33 13-0917 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	110.75	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0918 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	136.32	26.82
For Elevated Installation >10' To 15', Add	5.36	
For Elevated Installation >15' To 20', Add	10.73	
For Elevated Installation >20' To 25', Add	13.41	
For Elevated Installation >25' To 30', Add	18.77	
For Elevated Installation >30' To 35', Add	21.45	
For Elevated Installation >35' To 40', Add	26.82	
For Elevated Installation >40', Add	29.50	
For Work In Restricted Working Space, Add	16.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.09	
26 05 33 13-0919 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting.....	179.84	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0920 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	289.54	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0921 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	320.14	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0922 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	401.92	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.28	
<i>For Elevated Installation >30' To 35', Add</i>	35.75	
<i>For Elevated Installation >35' To 40', Add</i>	44.69	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0923 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,069.52	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0924 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,280.21	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.56	
<i>For Elevated Installation >20' To 25', Add</i>	38.20	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.03	
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0925 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,705.14	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.70	
<i>For Elevated Installation >35' To 40', Add</i>	112.13	
<i>For Elevated Installation >40', Add</i>	123.34	
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0926 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings <small>(26 05 33 13-0802)</small>		
26 05 33 13-0927 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	106.48	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0928 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	131.50	26.82
<i>For Elevated Installation >10' To 15', Add</i>	5.36	
<i>For Elevated Installation >15' To 20', Add</i>	10.73	
<i>For Elevated Installation >20' To 25', Add</i>	13.41	
<i>For Elevated Installation >25' To 30', Add</i>	18.77	
<i>For Elevated Installation >30' To 35', Add</i>	21.45	
<i>For Elevated Installation >35' To 40', Add</i>	26.82	
<i>For Elevated Installation >40', Add</i>	29.50	
<i>For Work In Restricted Working Space, Add</i>	16.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0929	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	179.84	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0930	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	287.06	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0931	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	310.15	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0932	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	402.04	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0933	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,026.87	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0934	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,249.10	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.56	
			<i>For Elevated Installation >20' To 25', Add</i>	38.20	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.03	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0935	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,705.06	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.70	
			<i>For Elevated Installation >35' To 40', Add</i>	112.13	
			<i>For Elevated Installation >40', Add</i>	123.34	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0936			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings <small>(26 05 33 13-0902)</small>		
26 05 33 13-0937	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	97.05	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0938 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.17 5.36 10.73 13.41 18.77 21.45 26.82 29.50 16.09 16.09	26.82
26 05 33 13-0939 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.97 6.18 12.35 15.44 21.62 24.70 30.88 33.97 18.53 18.53	30.88
26 05 33 13-0940 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	192.84 7.15 14.30 17.88 25.03 28.60 35.76 39.33 21.45 21.45	35.75
26 05 33 13-0941 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.82 8.13 16.25 20.32 28.44 32.50 40.63 44.69 24.38 24.38	40.63
26 05 33 13-0942 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	340.37 8.94 17.88 22.35 31.28 35.75 44.69 49.16 26.81 26.81	44.69
26 05 33 13-0943 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	908.12 11.21 22.43 28.03 39.25 44.85 56.07 61.67 33.64 33.64	56.07
26 05 33 13-0944 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,027.29 15.28 30.56 38.20 53.47 61.11 76.39 84.03 45.83 45.83	76.38
26 05 33 13-0945 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,317.50 22.43 44.85 56.07 78.49 89.70 112.13 123.34 67.28 67.28	112.14

26 05 33 13-0946 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0902)

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0947	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	160.18	20.32
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
			For Work In Restricted Working Space, Add	12.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0948	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	239.95	26.82
			For Elevated Installation >10' To 15', Add	5.36	
			For Elevated Installation >15' To 20', Add	10.73	
			For Elevated Installation >20' To 25', Add	13.41	
			For Elevated Installation >25' To 30', Add	18.77	
			For Elevated Installation >30' To 35', Add	21.45	
			For Elevated Installation >35' To 40', Add	26.82	
			For Elevated Installation >40', Add	29.50	
			For Work In Restricted Working Space, Add	16.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.09	
26 05 33 13-0949	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	300.57	30.88
			For Elevated Installation >10' To 15', Add	6.18	
			For Elevated Installation >15' To 20', Add	12.35	
			For Elevated Installation >20' To 25', Add	15.44	
			For Elevated Installation >25' To 30', Add	21.62	
			For Elevated Installation >30' To 35', Add	24.70	
			For Elevated Installation >35' To 40', Add	30.88	
			For Elevated Installation >40', Add	33.97	
			For Work In Restricted Working Space, Add	18.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.53	
26 05 33 13-0950	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	346.99	35.75
			For Elevated Installation >10' To 15', Add	7.15	
			For Elevated Installation >15' To 20', Add	14.30	
			For Elevated Installation >20' To 25', Add	17.88	
			For Elevated Installation >25' To 30', Add	25.03	
			For Elevated Installation >30' To 35', Add	28.60	
			For Elevated Installation >35' To 40', Add	35.76	
			For Elevated Installation >40', Add	39.33	
			For Work In Restricted Working Space, Add	21.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.45	
26 05 33 13-0951	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	394.09	40.63
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.50	
			For Elevated Installation >35' To 40', Add	40.63	
			For Elevated Installation >40', Add	44.69	
			For Work In Restricted Working Space, Add	24.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0952	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	515.23	44.69
			For Elevated Installation >10' To 15', Add	8.94	
			For Elevated Installation >15' To 20', Add	17.88	
			For Elevated Installation >20' To 25', Add	22.35	
			For Elevated Installation >25' To 30', Add	31.28	
			For Elevated Installation >30' To 35', Add	35.75	
			For Elevated Installation >35' To 40', Add	44.69	
			For Elevated Installation >40', Add	49.16	
			For Work In Restricted Working Space, Add	26.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.81	
26 05 33 13-0953	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded		
			Sealtight Fitting.....	1,588.60	56.07
			For Elevated Installation >10' To 15', Add	11.21	
			For Elevated Installation >15' To 20', Add	22.43	
			For Elevated Installation >20' To 25', Add	28.03	
			For Elevated Installation >25' To 30', Add	39.25	
			For Elevated Installation >30' To 35', Add	44.85	
			For Elevated Installation >35' To 40', Add	56.07	
			For Elevated Installation >40', Add	61.67	
			For Work In Restricted Working Space, Add	33.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0954 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	1,859.13	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.56	
<i>For Elevated Installation >20' To 25', Add</i>	38.20	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.03	
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0955 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealight Fitting.....	2,292.87	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.70	
<i>For Elevated Installation >35' To 40', Add</i>	112.13	
<i>For Elevated Installation >40', Add</i>	123.34	
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0956 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fittings <small>(26 05 33 13-0802)</small>		
26 05 33 13-0957 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	176.94	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0958 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	255.77	26.82
<i>For Elevated Installation >10' To 15', Add</i>	5.36	
<i>For Elevated Installation >15' To 20', Add</i>	10.73	
<i>For Elevated Installation >20' To 25', Add</i>	13.41	
<i>For Elevated Installation >25' To 30', Add</i>	18.77	
<i>For Elevated Installation >30' To 35', Add</i>	21.45	
<i>For Elevated Installation >35' To 40', Add</i>	26.82	
<i>For Elevated Installation >40', Add</i>	29.50	
<i>For Work In Restricted Working Space, Add</i>	16.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	
26 05 33 13-0959 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	303.58	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	
26 05 33 13-0960 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	351.95	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0961 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	407.69	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0962	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	634.81	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0963	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,769.02	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.03	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.85	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.67	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0964	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,489.02	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.56	
			<i>For Elevated Installation >20' To 25', Add</i>	38.20	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.03	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0965	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,611.74	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.70	
			<i>For Elevated Installation >35' To 40', Add</i>	112.13	
			<i>For Elevated Installation >40', Add</i>	123.34	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0966			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings <small>(26 05 33 13-0802)</small>		
26 05 33 13-0967	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	141.71	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-0968	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	179.27	26.82
			<i>For Elevated Installation >10' To 15', Add</i>	5.36	
			<i>For Elevated Installation >15' To 20', Add</i>	10.73	
			<i>For Elevated Installation >20' To 25', Add</i>	13.41	
			<i>For Elevated Installation >25' To 30', Add</i>	18.77	
			<i>For Elevated Installation >30' To 35', Add</i>	21.45	
			<i>For Elevated Installation >35' To 40', Add</i>	26.82	
			<i>For Elevated Installation >40', Add</i>	29.50	
			<i>For Work In Restricted Working Space, Add</i>	16.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.09	
26 05 33 13-0969	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	214.30	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0970 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	238.06	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45	
26 05 33 13-0971 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	317.64	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-0972 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	443.96	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.28	
<i>For Elevated Installation >30' To 35', Add</i>	35.75	
<i>For Elevated Installation >35' To 40', Add</i>	44.69	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0973 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,439.17	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-0974 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,625.47	76.38
<i>For Elevated Installation >10' To 15', Add</i>	15.28	
<i>For Elevated Installation >15' To 20', Add</i>	30.56	
<i>For Elevated Installation >20' To 25', Add</i>	38.20	
<i>For Elevated Installation >25' To 30', Add</i>	53.47	
<i>For Elevated Installation >30' To 35', Add</i>	61.11	
<i>For Elevated Installation >35' To 40', Add</i>	76.39	
<i>For Elevated Installation >40', Add</i>	84.03	
<i>For Work In Restricted Working Space, Add</i>	45.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.83	
26 05 33 13-0975 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	1,940.07	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.70	
<i>For Elevated Installation >35' To 40', Add</i>	112.13	
<i>For Elevated Installation >40', Add</i>	123.34	
<i>For Work In Restricted Working Space, Add</i>	67.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.28	
26 05 33 13-0976 Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0902)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0977 EA 1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	136.41	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.51	
<i>For Elevated Installation >25' To 30', Add</i>	27.31	
<i>For Elevated Installation >30' To 35', Add</i>	31.21	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0978	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	154.13	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.28	
			<i>For Elevated Installation >30' To 35', Add</i>	35.75	
			<i>For Elevated Installation >35' To 40', Add</i>	44.69	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.81	
26 05 33 13-0979	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	189.02	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-0980	EA		1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	244.40	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-0981	EA		1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	283.58	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.50	
			<i>For Elevated Installation >25' To 30', Add</i>	45.50	
			<i>For Elevated Installation >30' To 35', Add</i>	52.00	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.00	
26 05 33 13-0982	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	382.43	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-0983	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	634.91	109.70
			<i>For Elevated Installation >10' To 15', Add</i>	21.94	
			<i>For Elevated Installation >15' To 20', Add</i>	43.88	
			<i>For Elevated Installation >20' To 25', Add</i>	54.85	
			<i>For Elevated Installation >25' To 30', Add</i>	76.79	
			<i>For Elevated Installation >30' To 35', Add</i>	87.76	
			<i>For Elevated Installation >35' To 40', Add</i>	109.71	
			<i>For Elevated Installation >40', Add</i>	120.68	
			<i>For Work In Restricted Working Space, Add</i>	65.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.82	
26 05 33 13-0984	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	815.22	146.27
			<i>For Elevated Installation >10' To 15', Add</i>	29.26	
			<i>For Elevated Installation >15' To 20', Add</i>	58.51	
			<i>For Elevated Installation >20' To 25', Add</i>	73.14	
			<i>For Elevated Installation >25' To 30', Add</i>	102.39	
			<i>For Elevated Installation >30' To 35', Add</i>	117.02	
			<i>For Elevated Installation >35' To 40', Add</i>	146.28	
			<i>For Elevated Installation >40', Add</i>	160.90	
			<i>For Work In Restricted Working Space, Add</i>	87.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0985 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,125.06	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.70	
26 05 33 13-0986 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	1,296.53	222.65
<i>For Elevated Installation >10' To 15', Add</i>	44.53	
<i>For Elevated Installation >15' To 20', Add</i>	89.06	
<i>For Elevated Installation >20' To 25', Add</i>	111.33	
<i>For Elevated Installation >25' To 30', Add</i>	155.86	
<i>For Elevated Installation >30' To 35', Add</i>	178.12	
<i>For Elevated Installation >35' To 40', Add</i>	222.66	
<i>For Elevated Installation >40', Add</i>	244.92	
<i>For Work In Restricted Working Space, Add</i>	133.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59	
26 05 33 13-0987 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0802)</small>		
<i>Note: Suitable for use in hazardous locations. Class I, Div 2.</i>		
26 05 33 13-0988 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	178.30	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.83	
<i>For Elevated Installation >30' To 35', Add</i>	40.95	
<i>For Elevated Installation >35' To 40', Add</i>	51.19	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.71	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.71	
26 05 33 13-0989 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	202.67	56.88
<i>For Elevated Installation >10' To 15', Add</i>	11.38	
<i>For Elevated Installation >15' To 20', Add</i>	22.75	
<i>For Elevated Installation >20' To 25', Add</i>	28.44	
<i>For Elevated Installation >25' To 30', Add</i>	39.82	
<i>For Elevated Installation >30' To 35', Add</i>	45.51	
<i>For Elevated Installation >35' To 40', Add</i>	56.89	
<i>For Elevated Installation >40', Add</i>	62.57	
<i>For Work In Restricted Working Space, Add</i>	34.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.13	
26 05 33 13-0990 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	244.88	62.57
<i>For Elevated Installation >10' To 15', Add</i>	12.51	
<i>For Elevated Installation >15' To 20', Add</i>	25.03	
<i>For Elevated Installation >20' To 25', Add</i>	31.29	
<i>For Elevated Installation >25' To 30', Add</i>	43.80	
<i>For Elevated Installation >30' To 35', Add</i>	50.06	
<i>For Elevated Installation >35' To 40', Add</i>	62.57	
<i>For Elevated Installation >40', Add</i>	68.83	
<i>For Work In Restricted Working Space, Add</i>	37.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.54	
26 05 33 13-0991 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	324.44	71.51
<i>For Elevated Installation >10' To 15', Add</i>	14.30	
<i>For Elevated Installation >15' To 20', Add</i>	28.60	
<i>For Elevated Installation >20' To 25', Add</i>	35.75	
<i>For Elevated Installation >25' To 30', Add</i>	50.05	
<i>For Elevated Installation >30' To 35', Add</i>	57.20	
<i>For Elevated Installation >35' To 40', Add</i>	71.51	
<i>For Elevated Installation >40', Add</i>	78.66	
<i>For Work In Restricted Working Space, Add</i>	42.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.90	
26 05 33 13-0992 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	380.91	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	
26 05 33 13-0993 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	514.81	95.89
<i>For Elevated Installation >10' To 15', Add</i>	19.18	
<i>For Elevated Installation >15' To 20', Add</i>	38.35	
<i>For Elevated Installation >20' To 25', Add</i>	47.94	
<i>For Elevated Installation >25' To 30', Add</i>	67.12	
<i>For Elevated Installation >30' To 35', Add</i>	76.71	
<i>For Elevated Installation >35' To 40', Add</i>	95.89	
<i>For Elevated Installation >40', Add</i>	105.47	
<i>For Work In Restricted Working Space, Add</i>	57.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.53	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0994			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover <small>(26 05 33 13-0802)</small> Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-0995	EA		1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	156.79	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-0996	EA		3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	179.28	52.01
			<i>For Elevated Installation >10' To 15', Add</i>	10.40	
			<i>For Elevated Installation >15' To 20', Add</i>	20.80	
			<i>For Elevated Installation >20' To 25', Add</i>	26.00	
			<i>For Elevated Installation >25' To 30', Add</i>	36.40	
			<i>For Elevated Installation >30' To 35', Add</i>	41.60	
			<i>For Elevated Installation >35' To 40', Add</i>	52.01	
			<i>For Elevated Installation >40', Add</i>	57.21	
			<i>For Work In Restricted Working Space, Add</i>	31.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.20	
26 05 33 13-0997	EA		1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	214.61	56.88
			<i>For Elevated Installation >10' To 15', Add</i>	11.38	
			<i>For Elevated Installation >15' To 20', Add</i>	22.75	
			<i>For Elevated Installation >20' To 25', Add</i>	28.44	
			<i>For Elevated Installation >25' To 30', Add</i>	39.82	
			<i>For Elevated Installation >30' To 35', Add</i>	45.51	
			<i>For Elevated Installation >35' To 40', Add</i>	56.89	
			<i>For Elevated Installation >40', Add</i>	62.57	
			<i>For Work In Restricted Working Space, Add</i>	34.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.13	
26 05 33 13-0998	EA		1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	271.99	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-0999	EA		1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	320.31	71.51
			<i>For Elevated Installation >10' To 15', Add</i>	14.30	
			<i>For Elevated Installation >15' To 20', Add</i>	28.60	
			<i>For Elevated Installation >20' To 25', Add</i>	35.76	
			<i>For Elevated Installation >25' To 30', Add</i>	50.06	
			<i>For Elevated Installation >30' To 35', Add</i>	57.21	
			<i>For Elevated Installation >35' To 40', Add</i>	71.51	
			<i>For Elevated Installation >40', Add</i>	78.66	
			<i>For Work In Restricted Working Space, Add</i>	42.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.91	
26 05 33 13-1000	EA		2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	424.85	83.70
			<i>For Elevated Installation >10' To 15', Add</i>	16.74	
			<i>For Elevated Installation >15' To 20', Add</i>	33.48	
			<i>For Elevated Installation >20' To 25', Add</i>	41.85	
			<i>For Elevated Installation >25' To 30', Add</i>	58.59	
			<i>For Elevated Installation >30' To 35', Add</i>	66.96	
			<i>For Elevated Installation >35' To 40', Add</i>	83.70	
			<i>For Elevated Installation >40', Add</i>	92.07	
			<i>For Work In Restricted Working Space, Add</i>	50.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.22	
26 05 33 13-1001	EA		2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	678.67	121.89
			<i>For Elevated Installation >10' To 15', Add</i>	24.38	
			<i>For Elevated Installation >15' To 20', Add</i>	48.76	
			<i>For Elevated Installation >20' To 25', Add</i>	60.95	
			<i>For Elevated Installation >25' To 30', Add</i>	85.33	
			<i>For Elevated Installation >30' To 35', Add</i>	97.52	
			<i>For Elevated Installation >35' To 40', Add</i>	121.90	
			<i>For Elevated Installation >40', Add</i>	134.08	
			<i>For Work In Restricted Working Space, Add</i>	73.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1002 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	897.22	158.46
<i>For Elevated Installation >10' To 15', Add</i>	31.69	
<i>For Elevated Installation >15' To 20', Add</i>	63.38	
<i>For Elevated Installation >20' To 25', Add</i>	79.23	
<i>For Elevated Installation >25' To 30', Add</i>	110.92	
<i>For Elevated Installation >30' To 35', Add</i>	126.76	
<i>For Elevated Installation >35' To 40', Add</i>	158.45	
<i>For Elevated Installation >40', Add</i>	174.30	
<i>For Work In Restricted Working Space, Add</i>	95.07	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.07	
26 05 33 13-1003 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,224.14	195.03
<i>For Elevated Installation >10' To 15', Add</i>	39.00	
<i>For Elevated Installation >15' To 20', Add</i>	78.01	
<i>For Elevated Installation >20' To 25', Add</i>	97.51	
<i>For Elevated Installation >25' To 30', Add</i>	136.51	
<i>For Elevated Installation >30' To 35', Add</i>	156.02	
<i>For Elevated Installation >35' To 40', Add</i>	195.02	
<i>For Elevated Installation >40', Add</i>	214.52	
<i>For Work In Restricted Working Space, Add</i>	117.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.01	
26 05 33 13-1004 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,374.59	234.84
<i>For Elevated Installation >10' To 15', Add</i>	46.97	
<i>For Elevated Installation >15' To 20', Add</i>	93.94	
<i>For Elevated Installation >20' To 25', Add</i>	117.43	
<i>For Elevated Installation >25' To 30', Add</i>	164.40	
<i>For Elevated Installation >30' To 35', Add</i>	187.88	
<i>For Elevated Installation >35' To 40', Add</i>	234.85	
<i>For Elevated Installation >40', Add</i>	258.34	
<i>For Work In Restricted Working Space, Add</i>	140.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.91	
26 05 33 13-1005 Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined <small>(26 05 33 13-0802)</small>		
26 05 33 13-1006 EA 1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	30.46	4.87
<i>For Elevated Installation >10' To 15', Add</i>	0.98	
<i>For Elevated Installation >15' To 20', Add</i>	1.95	
<i>For Elevated Installation >20' To 25', Add</i>	2.44	
<i>For Elevated Installation >25' To 30', Add</i>	3.41	
<i>For Elevated Installation >30' To 35', Add</i>	3.90	
<i>For Elevated Installation >35' To 40', Add</i>	4.88	
<i>For Elevated Installation >40', Add</i>	5.36	
<i>For Work In Restricted Working Space, Add</i>	2.93	
26 05 33 13-1007 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	34.25	5.69
<i>For Elevated Installation >10' To 15', Add</i>	1.14	
<i>For Elevated Installation >15' To 20', Add</i>	2.28	
<i>For Elevated Installation >20' To 25', Add</i>	2.85	
<i>For Elevated Installation >25' To 30', Add</i>	3.98	
<i>For Elevated Installation >30' To 35', Add</i>	4.55	
<i>For Elevated Installation >35' To 40', Add</i>	5.69	
<i>For Elevated Installation >40', Add</i>	6.26	
<i>For Work In Restricted Working Space, Add</i>	3.41	
26 05 33 13-1008 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	44.62	7.32
<i>For Elevated Installation >10' To 15', Add</i>	1.46	
<i>For Elevated Installation >15' To 20', Add</i>	2.92	
<i>For Elevated Installation >20' To 25', Add</i>	3.66	
<i>For Elevated Installation >25' To 30', Add</i>	5.12	
<i>For Elevated Installation >30' To 35', Add</i>	5.85	
<i>For Elevated Installation >35' To 40', Add</i>	7.31	
<i>For Elevated Installation >40', Add</i>	8.04	
<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33 13-1009 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	57.22	8.94
<i>For Elevated Installation >10' To 15', Add</i>	1.79	
<i>For Elevated Installation >15' To 20', Add</i>	3.58	
<i>For Elevated Installation >20' To 25', Add</i>	4.47	
<i>For Elevated Installation >25' To 30', Add</i>	6.26	
<i>For Elevated Installation >30' To 35', Add</i>	7.15	
<i>For Elevated Installation >35' To 40', Add</i>	8.94	
<i>For Elevated Installation >40', Add</i>	9.83	
<i>For Work In Restricted Working Space, Add</i>	5.36	
26 05 33 13-1010 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	64.28	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1011 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	79.22	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-1012 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	101.79	13.81
For Elevated Installation >10' To 15', Add	2.76	
For Elevated Installation >15' To 20', Add	5.53	
For Elevated Installation >20' To 25', Add	6.91	
For Elevated Installation >25' To 30', Add	9.67	
For Elevated Installation >30' To 35', Add	11.05	
For Elevated Installation >35' To 40', Add	13.82	
For Elevated Installation >40', Add	15.20	
For Work In Restricted Working Space, Add	8.29	
26 05 33 13-1013 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	113.17	19.50
For Elevated Installation >10' To 15', Add	3.90	
For Elevated Installation >15' To 20', Add	7.80	
For Elevated Installation >20' To 25', Add	9.75	
For Elevated Installation >25' To 30', Add	13.65	
For Elevated Installation >30' To 35', Add	15.60	
For Elevated Installation >35' To 40', Add	19.51	
For Elevated Installation >40', Add	21.46	
For Work In Restricted Working Space, Add	11.70	
26 05 33 13-1014 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	136.87	21.94
For Elevated Installation >10' To 15', Add	4.39	
For Elevated Installation >15' To 20', Add	8.78	
For Elevated Installation >20' To 25', Add	10.97	
For Elevated Installation >25' To 30', Add	15.36	
For Elevated Installation >30' To 35', Add	17.55	
For Elevated Installation >35' To 40', Add	21.94	
For Elevated Installation >40', Add	24.13	
For Work In Restricted Working Space, Add	13.16	
26 05 33 13-1015 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	148.24	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
26 05 33 13-1016 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1017 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	152.10	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-1018 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	169.07	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.82	
26 05 33 13-1019 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	197.04	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1020 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit		
Body	233.28	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	
26 05 33 13-1021 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit		
Body	286.72	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-1022 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	347.16	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.81	
26 05 33 13-1023 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit		
Body	501.38	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.82	
26 05 33 13-1024 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	645.22	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.76	
26 05 33 13-1025 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit		
Body	1,245.45	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.70	
26 05 33 13-1026 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,805.26	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.59	

26 05 33 13-1027 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) EYD Sealing Conduit Bodies (26 05 33 13-0802)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1028 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	248.53	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-1029 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	268.77	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.82	
26 05 33 13-1030 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	306.99	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.72	
26 05 33 13-1031 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	344.47	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	
26 05 33 13-1032 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	414.72	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-1033 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	468.92	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.81	
26 05 33 13-1034 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	659.70	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.82	
26 05 33 13-1035 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	916.34	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1036 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,324.19	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.70	
26 05 33 13-1037 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body	1,908.30	222.65
<i>For Elevated Installation >10' To 15', Add</i>	44.53	
<i>For Elevated Installation >15' To 20', Add</i>	89.06	
<i>For Elevated Installation >20' To 25', Add</i>	111.33	
<i>For Elevated Installation >25' To 30', Add</i>	155.86	
<i>For Elevated Installation >30' To 35', Add</i>	178.12	
<i>For Elevated Installation >35' To 40', Add</i>	222.66	
<i>For Elevated Installation >40', Add</i>	244.92	
<i>For Work In Restricted Working Space, Add</i>	133.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.59	
26 05 33 13-1038 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1039 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	202.11	39.01
<i>For Elevated Installation >10' To 15', Add</i>	7.80	
<i>For Elevated Installation >15' To 20', Add</i>	15.60	
<i>For Elevated Installation >20' To 25', Add</i>	19.50	
<i>For Elevated Installation >25' To 30', Add</i>	27.30	
<i>For Elevated Installation >30' To 35', Add</i>	31.20	
<i>For Elevated Installation >35' To 40', Add</i>	39.01	
<i>For Elevated Installation >40', Add</i>	42.91	
<i>For Work In Restricted Working Space, Add</i>	23.40	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1040 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	216.79	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1041 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	249.00	51.20
<i>For Elevated Installation >10' To 15', Add</i>	10.24	
<i>For Elevated Installation >15' To 20', Add</i>	20.48	
<i>For Elevated Installation >20' To 25', Add</i>	25.60	
<i>For Elevated Installation >25' To 30', Add</i>	35.84	
<i>For Elevated Installation >30' To 35', Add</i>	40.96	
<i>For Elevated Installation >35' To 40', Add</i>	51.20	
<i>For Elevated Installation >40', Add</i>	56.31	
<i>For Work In Restricted Working Space, Add</i>	30.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-1042 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	278.71	59.32
<i>For Elevated Installation >10' To 15', Add</i>	11.86	
<i>For Elevated Installation >15' To 20', Add</i>	23.73	
<i>For Elevated Installation >20' To 25', Add</i>	29.66	
<i>For Elevated Installation >25' To 30', Add</i>	41.52	
<i>For Elevated Installation >30' To 35', Add</i>	47.46	
<i>For Elevated Installation >35' To 40', Add</i>	59.32	
<i>For Elevated Installation >40', Add</i>	65.25	
<i>For Work In Restricted Working Space, Add</i>	35.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-1043 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	376.44	65.01
<i>For Elevated Installation >10' To 15', Add</i>	13.00	
<i>For Elevated Installation >15' To 20', Add</i>	26.00	
<i>For Elevated Installation >20' To 25', Add</i>	32.51	
<i>For Elevated Installation >25' To 30', Add</i>	45.51	
<i>For Elevated Installation >30' To 35', Add</i>	52.01	
<i>For Elevated Installation >35' To 40', Add</i>	65.01	
<i>For Elevated Installation >40', Add</i>	71.51	
<i>For Work In Restricted Working Space, Add</i>	39.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	
26 05 33 13-1044 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	471.23	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1045	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	727.02	109.70
			For Elevated Installation >10' To 15', Add	21.94	
			For Elevated Installation >15' To 20', Add	43.88	
			For Elevated Installation >20' To 25', Add	54.85	
			For Elevated Installation >25' To 30', Add	76.79	
			For Elevated Installation >30' To 35', Add	87.76	
			For Elevated Installation >35' To 40', Add	109.70	
			For Elevated Installation >40', Add	120.67	
			For Work In Restricted Working Space, Add	65.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.82	
26 05 33 13-1046	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,053.32	146.27
			For Elevated Installation >10' To 15', Add	29.25	
			For Elevated Installation >15' To 20', Add	58.51	
			For Elevated Installation >20' To 25', Add	73.14	
			For Elevated Installation >25' To 30', Add	102.39	
			For Elevated Installation >30' To 35', Add	117.02	
			For Elevated Installation >35' To 40', Add	146.27	
			For Elevated Installation >40', Add	160.90	
			For Work In Restricted Working Space, Add	87.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.76	
26 05 33 13-1047	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body.....	1,324.19	182.83
			For Elevated Installation >10' To 15', Add	36.57	
			For Elevated Installation >15' To 20', Add	73.13	
			For Elevated Installation >20' To 25', Add	91.42	
			For Elevated Installation >25' To 30', Add	127.98	
			For Elevated Installation >30' To 35', Add	146.27	
			For Elevated Installation >35' To 40', Add	182.84	
			For Elevated Installation >40', Add	201.12	
			For Work In Restricted Working Space, Add	109.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.70	
26 05 33 13-1048			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies <small>(26 05 33 13-0802)</small>		
26 05 33 13-1049	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	262.16	39.01
			For Elevated Installation >10' To 15', Add	7.80	
			For Elevated Installation >15' To 20', Add	15.60	
			For Elevated Installation >20' To 25', Add	19.50	
			For Elevated Installation >25' To 30', Add	27.30	
			For Elevated Installation >30' To 35', Add	31.20	
			For Elevated Installation >35' To 40', Add	39.01	
			For Elevated Installation >40', Add	42.91	
			For Work In Restricted Working Space, Add	23.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.40	
26 05 33 13-1050	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	291.51	44.69
			For Elevated Installation >10' To 15', Add	8.94	
			For Elevated Installation >15' To 20', Add	17.88	
			For Elevated Installation >20' To 25', Add	22.35	
			For Elevated Installation >25' To 30', Add	31.29	
			For Elevated Installation >30' To 35', Add	35.76	
			For Elevated Installation >35' To 40', Add	44.70	
			For Elevated Installation >40', Add	49.16	
			For Work In Restricted Working Space, Add	26.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.82	
26 05 33 13-1051	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	359.57	51.20
			For Elevated Installation >10' To 15', Add	10.24	
			For Elevated Installation >15' To 20', Add	20.48	
			For Elevated Installation >20' To 25', Add	25.60	
			For Elevated Installation >25' To 30', Add	35.84	
			For Elevated Installation >30' To 35', Add	40.96	
			For Elevated Installation >35' To 40', Add	51.20	
			For Elevated Installation >40', Add	56.31	
			For Work In Restricted Working Space, Add	30.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.72	
26 05 33 13-1052	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	441.73	59.32
			For Elevated Installation >10' To 15', Add	11.86	
			For Elevated Installation >15' To 20', Add	23.73	
			For Elevated Installation >20' To 25', Add	29.66	
			For Elevated Installation >25' To 30', Add	41.52	
			For Elevated Installation >30' To 35', Add	47.46	
			For Elevated Installation >35' To 40', Add	59.32	
			For Elevated Installation >40', Add	65.25	
			For Work In Restricted Working Space, Add	35.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1053	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	606.75	65.01
26 05 33	13-1054	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	727.21	78.01
26 05 33 13-1055 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings <small>(26 05 33 13-0802)</small>					
26 05 33	13-1056	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	53.81	15.63
26 05 33	13-1057	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	70.56	18.75
26 05 33	13-1058	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	90.14	25.01
26 05 33	13-1059	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	122.75	31.25
26 05 33	13-1060	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	159.65	37.50
26 05 33	13-1061	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	266.46	43.76

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1062 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	381.75	50.00
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Work In Restricted Working Space, Add	30.00	
26 05 33 13-1063 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	473.81	56.26
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.50	
For Elevated Installation >20' To 25', Add	28.13	
For Elevated Installation >25' To 30', Add	39.38	
For Elevated Installation >30' To 35', Add	45.00	
For Elevated Installation >35' To 40', Add	56.26	
For Elevated Installation >40', Add	61.88	
For Work In Restricted Working Space, Add	33.75	
26 05 33 13-1064 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	654.42	65.64
For Elevated Installation >10' To 15', Add	13.13	
For Elevated Installation >15' To 20', Add	26.25	
For Elevated Installation >20' To 25', Add	32.82	
For Elevated Installation >25' To 30', Add	45.94	
For Elevated Installation >30' To 35', Add	52.51	
For Elevated Installation >35' To 40', Add	65.64	
For Elevated Installation >40', Add	72.20	
For Work In Restricted Working Space, Add	39.38	
26 05 33 13-1065 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	792.70	75.01
For Elevated Installation >10' To 15', Add	15.00	
For Elevated Installation >15' To 20', Add	30.00	
For Elevated Installation >20' To 25', Add	37.51	
For Elevated Installation >25' To 30', Add	52.51	
For Elevated Installation >30' To 35', Add	60.01	
For Elevated Installation >35' To 40', Add	75.01	
For Elevated Installation >40', Add	82.51	
For Work In Restricted Working Space, Add	45.01	
26 05 33 13-1066 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,268.21	118.77
For Elevated Installation >10' To 15', Add	23.75	
For Elevated Installation >15' To 20', Add	47.51	
For Elevated Installation >20' To 25', Add	59.38	
For Elevated Installation >25' To 30', Add	83.14	
For Elevated Installation >30' To 35', Add	95.01	
For Elevated Installation >35' To 40', Add	118.77	
For Elevated Installation >40', Add	130.64	
For Work In Restricted Working Space, Add	71.26	
26 05 33 13-1067 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,741.24	181.27
For Elevated Installation >10' To 15', Add	36.26	
For Elevated Installation >15' To 20', Add	72.51	
For Elevated Installation >20' To 25', Add	90.64	
For Elevated Installation >25' To 30', Add	126.89	
For Elevated Installation >30' To 35', Add	145.02	
For Elevated Installation >35' To 40', Add	181.28	
For Elevated Installation >40', Add	199.40	
For Work In Restricted Working Space, Add	108.77	
26 05 33 13-1068 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1069 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	191.52	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
26 05 33 13-1070 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	225.18	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
26 05 33 13-1071 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	249.97	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1072 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	353.48	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1073 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	460.93	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1074 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	500.68	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1075 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,151.90	108.07
For Elevated Installation >10' To 15', Add	21.62	
For Elevated Installation >15' To 20', Add	43.23	
For Elevated Installation >20' To 25', Add	54.04	
For Elevated Installation >25' To 30', Add	75.66	
For Elevated Installation >30' To 35', Add	86.46	
For Elevated Installation >35' To 40', Add	108.08	
For Elevated Installation >40', Add	118.89	
For Work In Restricted Working Space, Add	64.85	
26 05 33 13-1076 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,228.51	146.27
For Elevated Installation >10' To 15', Add	29.26	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.28	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.77	
26 05 33 13-1077 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,986.92	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.14	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.99	
For Elevated Installation >30' To 35', Add	146.28	
For Elevated Installation >35' To 40', Add	182.85	
For Elevated Installation >40', Add	201.13	
For Work In Restricted Working Space, Add	109.71	
26 05 33 13-1078 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,082.29	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.07	
For Elevated Installation >20' To 25', Add	111.34	
For Elevated Installation >25' To 30', Add	155.87	
For Elevated Installation >30' To 35', Add	178.14	
For Elevated Installation >35' To 40', Add	222.67	
For Elevated Installation >40', Add	244.94	
For Work In Restricted Working Space, Add	133.60	
26 05 33 13-1079 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1080 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	272.30	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1081	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	310.31	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1082	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	597.49	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1083	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	629.03	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-1084	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	853.46	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
26 05 33 13-1085	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	913.77	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
26 05 33 13-1086	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,740.95	109.70
			<i>For Elevated Installation >10' To 15', Add</i>	21.94	
			<i>For Elevated Installation >15' To 20', Add</i>	43.88	
			<i>For Elevated Installation >20' To 25', Add</i>	54.85	
			<i>For Elevated Installation >25' To 30', Add</i>	76.79	
			<i>For Elevated Installation >30' To 35', Add</i>	87.76	
			<i>For Elevated Installation >35' To 40', Add</i>	109.70	
			<i>For Elevated Installation >40', Add</i>	120.67	
			<i>For Work In Restricted Working Space, Add</i>	65.82	
26 05 33 13-1087	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,844.16	146.27
			<i>For Elevated Installation >10' To 15', Add</i>	29.25	
			<i>For Elevated Installation >15' To 20', Add</i>	58.51	
			<i>For Elevated Installation >20' To 25', Add</i>	73.14	
			<i>For Elevated Installation >25' To 30', Add</i>	102.39	
			<i>For Elevated Installation >30' To 35', Add</i>	117.02	
			<i>For Elevated Installation >35' To 40', Add</i>	146.27	
			<i>For Elevated Installation >40', Add</i>	160.90	
			<i>For Work In Restricted Working Space, Add</i>	87.76	
26 05 33 13-1088	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,689.17	182.83
			<i>For Elevated Installation >10' To 15', Add</i>	36.57	
			<i>For Elevated Installation >15' To 20', Add</i>	73.13	
			<i>For Elevated Installation >20' To 25', Add</i>	91.42	
			<i>For Elevated Installation >25' To 30', Add</i>	127.98	
			<i>For Elevated Installation >30' To 35', Add</i>	146.27	
			<i>For Elevated Installation >35' To 40', Add</i>	182.84	
			<i>For Elevated Installation >40', Add</i>	201.12	
			<i>For Work In Restricted Working Space, Add</i>	109.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1089 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,051.26	222.65
<i>For Elevated Installation >10' To 15', Add</i>	44.53	
<i>For Elevated Installation >15' To 20', Add</i>	89.06	
<i>For Elevated Installation >20' To 25', Add</i>	111.33	
<i>For Elevated Installation >25' To 30', Add</i>	155.86	
<i>For Elevated Installation >30' To 35', Add</i>	178.12	
<i>For Elevated Installation >35' To 40', Add</i>	222.66	
<i>For Elevated Installation >40', Add</i>	244.92	
<i>For Work In Restricted Working Space, Add</i>	133.59	
26 05 33 13-1090 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1091 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	106.58	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1092 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	124.64	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1093 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	148.83	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1094 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	175.41	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1095 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1096 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	85.54	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1097 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	99.38	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1098	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	136.52	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1099	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	175.51	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1100	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	212.78	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1101	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	300.85	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1102	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	409.27	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1103			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1104	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	106.63	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1105	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	127.55	25.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.08	
			<i>For Elevated Installation >20' To 25', Add</i>	12.60	
			<i>For Elevated Installation >25' To 30', Add</i>	17.63	
			<i>For Elevated Installation >30' To 35', Add</i>	20.15	
			<i>For Elevated Installation >35' To 40', Add</i>	25.19	
			<i>For Elevated Installation >40', Add</i>	27.71	
			<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1106	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	148.85	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1107 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	175.46	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1108 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows <small>(26 05 33 13-0802)</small>		
26 05 33 13-1109 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	85.61	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1110 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	99.38	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1111 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	127.81	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1112 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	158.58	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1113 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	185.21	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1114 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	212.55	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1115 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	386.76	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1116	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	447.78	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.55	
			<i>For Elevated Installation >20' To 25', Add</i>	38.19	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.02	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-1117	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	484.50	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	
26 05 33 13-1118	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	599.92	112.14
			<i>For Elevated Installation >10' To 15', Add</i>	22.43	
			<i>For Elevated Installation >15' To 20', Add</i>	44.85	
			<i>For Elevated Installation >20' To 25', Add</i>	56.07	
			<i>For Elevated Installation >25' To 30', Add</i>	78.49	
			<i>For Elevated Installation >30' To 35', Add</i>	89.71	
			<i>For Elevated Installation >35' To 40', Add</i>	112.14	
			<i>For Elevated Installation >40', Add</i>	123.35	
			<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-1119 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0802)</small>					
26 05 33 13-1120	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	177.89	39.01
			<i>For Elevated Installation >10' To 15', Add</i>	7.80	
			<i>For Elevated Installation >15' To 20', Add</i>	15.60	
			<i>For Elevated Installation >20' To 25', Add</i>	19.50	
			<i>For Elevated Installation >25' To 30', Add</i>	27.30	
			<i>For Elevated Installation >30' To 35', Add</i>	31.20	
			<i>For Elevated Installation >35' To 40', Add</i>	39.01	
			<i>For Elevated Installation >40', Add</i>	42.91	
			<i>For Work In Restricted Working Space, Add</i>	23.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.40	
26 05 33 13-1121	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	193.19	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.82	
26 05 33 13-1122	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	212.33	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.72	
26 05 33 13-1123	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	281.65	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.59	
26 05 33 13-1124	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	354.46	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1125 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1126 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	211.24	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	
26 05 33 13-1127 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	228.59	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1128 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	266.80	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1129 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	376.18	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1130 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	599.41	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1131 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	650.57	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1132 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1133 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	230.16	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.50	
For Elevated Installation >25' To 30', Add	27.30	
For Elevated Installation >30' To 35', Add	31.20	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1134	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	260.15	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1135	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	284.81	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	
26 05 33 13-1136	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	394.48	59.32
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.73	
			<i>For Elevated Installation >20' To 25', Add</i>	29.66	
			<i>For Elevated Installation >25' To 30', Add</i>	41.52	
			<i>For Elevated Installation >30' To 35', Add</i>	47.46	
			<i>For Elevated Installation >35' To 40', Add</i>	59.32	
			<i>For Elevated Installation >40', Add</i>	65.25	
			<i>For Work In Restricted Working Space, Add</i>	35.59	
26 05 33 13-1137	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	643.06	65.01
			<i>For Elevated Installation >10' To 15', Add</i>	13.00	
			<i>For Elevated Installation >15' To 20', Add</i>	26.00	
			<i>For Elevated Installation >20' To 25', Add</i>	32.51	
			<i>For Elevated Installation >25' To 30', Add</i>	45.51	
			<i>For Elevated Installation >30' To 35', Add</i>	52.01	
			<i>For Elevated Installation >35' To 40', Add</i>	65.01	
			<i>For Elevated Installation >40', Add</i>	71.51	
			<i>For Work In Restricted Working Space, Add</i>	39.01	
26 05 33 13-1138	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover.....	690.64	78.01
			<i>For Elevated Installation >10' To 15', Add</i>	15.60	
			<i>For Elevated Installation >15' To 20', Add</i>	31.20	
			<i>For Elevated Installation >20' To 25', Add</i>	39.01	
			<i>For Elevated Installation >25' To 30', Add</i>	54.61	
			<i>For Elevated Installation >30' To 35', Add</i>	62.41	
			<i>For Elevated Installation >35' To 40', Add</i>	78.01	
			<i>For Elevated Installation >40', Add</i>	85.81	
			<i>For Work In Restricted Working Space, Add</i>	46.81	
26 05 33 13-1139			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover <small>(26 05 33 13-0802)</small>		
26 05 33 13-1140	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	230.32	39.01
			<i>For Elevated Installation >10' To 15', Add</i>	7.80	
			<i>For Elevated Installation >15' To 20', Add</i>	15.60	
			<i>For Elevated Installation >20' To 25', Add</i>	19.51	
			<i>For Elevated Installation >25' To 30', Add</i>	27.31	
			<i>For Elevated Installation >30' To 35', Add</i>	31.21	
			<i>For Elevated Installation >35' To 40', Add</i>	39.01	
			<i>For Elevated Installation >40', Add</i>	42.91	
			<i>For Work In Restricted Working Space, Add</i>	23.41	
26 05 33 13-1141	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	254.57	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1142	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover.....	302.19	51.20
			<i>For Elevated Installation >10' To 15', Add</i>	10.24	
			<i>For Elevated Installation >15' To 20', Add</i>	20.48	
			<i>For Elevated Installation >20' To 25', Add</i>	25.60	
			<i>For Elevated Installation >25' To 30', Add</i>	35.84	
			<i>For Elevated Installation >30' To 35', Add</i>	40.96	
			<i>For Elevated Installation >35' To 40', Add</i>	51.20	
			<i>For Elevated Installation >40', Add</i>	56.31	
			<i>For Work In Restricted Working Space, Add</i>	30.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1143 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	408.42	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1144 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	663.86	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1145 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	716.28	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1146 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0802)		
26 05 33 13-1147 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	282.71	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1148 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	312.81	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1149 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	340.07	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1150 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	831.87	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	

26 05 33 13-1151 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0802)
 Note: Excludes cover.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1152 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	143.01	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1153 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	157.89	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1154 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	176.77	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1155 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	157.21	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1156 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	170.32	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1157 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box	194.03	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1158 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes <small>(26 05 33 13-0802)</small>		
Note: Excludes cover.		
26 05 33 13-1159 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	149.73	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1160 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	165.45	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1161 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box	181.99	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1162 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	166.82	39.01
For Elevated Installation >10' To 15', Add	7.80	
For Elevated Installation >15' To 20', Add	15.60	
For Elevated Installation >20' To 25', Add	19.51	
For Elevated Installation >25' To 30', Add	27.31	
For Elevated Installation >30' To 35', Add	31.21	
For Elevated Installation >35' To 40', Add	39.01	
For Elevated Installation >40', Add	42.91	
For Work In Restricted Working Space, Add	23.41	
26 05 33 13-1163 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	182.72	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1164 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	206.79	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers		
<small>(26 05 33 13-0802)</small>		
26 05 33 13-1166 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	49.96	4.87
For Elevated Installation >10' To 15', Add	0.98	
For Elevated Installation >15' To 20', Add	1.95	
For Elevated Installation >20' To 25', Add	2.44	
For Elevated Installation >25' To 30', Add	3.41	
For Elevated Installation >30' To 35', Add	3.90	
For Elevated Installation >35' To 40', Add	4.88	
For Elevated Installation >40', Add	5.36	
For Work In Restricted Working Space, Add	2.93	
26 05 33 13-1167 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	67.63	5.69
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.98	
For Elevated Installation >30' To 35', Add	4.55	
For Elevated Installation >35' To 40', Add	5.69	
For Elevated Installation >40', Add	6.26	
For Work In Restricted Working Space, Add	3.41	
26 05 33 13-1168 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	63.94	5.69
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.98	
For Elevated Installation >30' To 35', Add	4.55	
For Elevated Installation >35' To 40', Add	5.69	
For Elevated Installation >40', Add	6.26	
For Work In Restricted Working Space, Add	3.41	
26 05 33 13-1169 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	57.06	5.69
For Elevated Installation >10' To 15', Add	1.14	
For Elevated Installation >15' To 20', Add	2.28	
For Elevated Installation >20' To 25', Add	2.85	
For Elevated Installation >25' To 30', Add	3.98	
For Elevated Installation >30' To 35', Add	4.55	
For Elevated Installation >35' To 40', Add	5.69	
For Elevated Installation >40', Add	6.26	
For Work In Restricted Working Space, Add	3.41	
26 05 33 13-1170 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	271.49	8.13
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Work In Restricted Working Space, Add	4.88	
26 05 33 13-1171 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover.....	241.63	8.13
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Work In Restricted Working Space, Add	4.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1172		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies <small>(26 05 33 13-0802)</small>			
		Note: Includes covers.			
26 05 33 13-1173	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	298.34		51.20
		For Elevated Installation >10' To 15', Add	10.24		
		For Elevated Installation >15' To 20', Add	20.48		
		For Elevated Installation >20' To 25', Add	25.60		
		For Elevated Installation >25' To 30', Add	35.84		
		For Elevated Installation >30' To 35', Add	40.96		
		For Elevated Installation >35' To 40', Add	51.20		
		For Elevated Installation >40', Add	56.31		
		For Work In Restricted Working Space, Add	30.72		
26 05 33 13-1174	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	335.73		59.32
		For Elevated Installation >10' To 15', Add	11.86		
		For Elevated Installation >15' To 20', Add	23.73		
		For Elevated Installation >20' To 25', Add	29.66		
		For Elevated Installation >25' To 30', Add	41.52		
		For Elevated Installation >30' To 35', Add	47.46		
		For Elevated Installation >35' To 40', Add	59.32		
		For Elevated Installation >40', Add	65.25		
		For Work In Restricted Working Space, Add	35.59		
26 05 33 13-1175	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	457.75		65.01
		For Elevated Installation >10' To 15', Add	13.00		
		For Elevated Installation >15' To 20', Add	26.00		
		For Elevated Installation >20' To 25', Add	32.51		
		For Elevated Installation >25' To 30', Add	45.51		
		For Elevated Installation >30' To 35', Add	52.01		
		For Elevated Installation >35' To 40', Add	65.01		
		For Elevated Installation >40', Add	71.51		
		For Work In Restricted Working Space, Add	39.01		
26 05 33 13-1176	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	545.63		78.01
		For Elevated Installation >10' To 15', Add	15.60		
		For Elevated Installation >15' To 20', Add	31.20		
		For Elevated Installation >20' To 25', Add	39.01		
		For Elevated Installation >25' To 30', Add	54.61		
		For Elevated Installation >30' To 35', Add	62.41		
		For Elevated Installation >35' To 40', Add	78.01		
		For Elevated Installation >40', Add	85.81		
		For Work In Restricted Working Space, Add	46.81		
26 05 33 13-1177	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	787.22		109.70
		For Elevated Installation >10' To 15', Add	21.94		
		For Elevated Installation >15' To 20', Add	43.88		
		For Elevated Installation >20' To 25', Add	54.85		
		For Elevated Installation >25' To 30', Add	76.79		
		For Elevated Installation >30' To 35', Add	87.76		
		For Elevated Installation >35' To 40', Add	109.70		
		For Elevated Installation >40', Add	120.67		
		For Work In Restricted Working Space, Add	65.82		
26 05 33 13-1178	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	996.02		146.27
		For Elevated Installation >10' To 15', Add	29.25		
		For Elevated Installation >15' To 20', Add	58.51		
		For Elevated Installation >20' To 25', Add	73.14		
		For Elevated Installation >25' To 30', Add	102.39		
		For Elevated Installation >30' To 35', Add	117.02		
		For Elevated Installation >35' To 40', Add	146.27		
		For Elevated Installation >40', Add	160.90		
		For Work In Restricted Working Space, Add	87.76		
26 05 33 13-1179	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,449.11		182.83
		For Elevated Installation >10' To 15', Add	36.57		
		For Elevated Installation >15' To 20', Add	73.13		
		For Elevated Installation >20' To 25', Add	91.42		
		For Elevated Installation >25' To 30', Add	127.98		
		For Elevated Installation >30' To 35', Add	146.27		
		For Elevated Installation >35' To 40', Add	182.84		
		For Elevated Installation >40', Add	201.12		
		For Work In Restricted Working Space, Add	109.70		
26 05 33 13-1180	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body.....	1,796.62		222.65
		For Elevated Installation >10' To 15', Add	44.53		
		For Elevated Installation >15' To 20', Add	89.06		
		For Elevated Installation >20' To 25', Add	111.33		
		For Elevated Installation >25' To 30', Add	155.86		
		For Elevated Installation >30' To 35', Add	178.12		
		For Elevated Installation >35' To 40', Add	222.66		
		For Elevated Installation >40', Add	244.92		
		For Work In Restricted Working Space, Add	133.59		
26 05 33 13-1181	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	298.34		51.20
		For Elevated Installation >10' To 15', Add	10.24		
		For Elevated Installation >15' To 20', Add	20.48		
		For Elevated Installation >20' To 25', Add	25.60		
		For Elevated Installation >25' To 30', Add	35.84		
		For Elevated Installation >30' To 35', Add	40.96		
		For Elevated Installation >35' To 40', Add	51.20		
		For Elevated Installation >40', Add	56.31		
		For Work In Restricted Working Space, Add	30.72		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1182 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	335.73	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1183 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	456.55	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1184 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	533.47	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1185 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	798.42	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1186 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,046.25	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1187 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,509.74	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1188 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,834.38	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1189 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	298.34	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1190 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	335.73	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1191 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	456.55	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	
26 05 33 13-1192 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	533.47	78.01
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.01	
For Elevated Installation >25' To 30', Add	54.61	
For Elevated Installation >30' To 35', Add	62.41	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Work In Restricted Working Space, Add	46.81	
26 05 33 13-1193 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	798.42	109.70
For Elevated Installation >10' To 15', Add	21.94	
For Elevated Installation >15' To 20', Add	43.88	
For Elevated Installation >20' To 25', Add	54.85	
For Elevated Installation >25' To 30', Add	76.79	
For Elevated Installation >30' To 35', Add	87.76	
For Elevated Installation >35' To 40', Add	109.70	
For Elevated Installation >40', Add	120.67	
For Work In Restricted Working Space, Add	65.82	
26 05 33 13-1194 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,046.25	146.27
For Elevated Installation >10' To 15', Add	29.25	
For Elevated Installation >15' To 20', Add	58.51	
For Elevated Installation >20' To 25', Add	73.14	
For Elevated Installation >25' To 30', Add	102.39	
For Elevated Installation >30' To 35', Add	117.02	
For Elevated Installation >35' To 40', Add	146.27	
For Elevated Installation >40', Add	160.90	
For Work In Restricted Working Space, Add	87.76	
26 05 33 13-1195 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,509.74	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1196 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body.....	1,834.38	222.65
For Elevated Installation >10' To 15', Add	44.53	
For Elevated Installation >15' To 20', Add	89.06	
For Elevated Installation >20' To 25', Add	111.33	
For Elevated Installation >25' To 30', Add	155.86	
For Elevated Installation >30' To 35', Add	178.12	
For Elevated Installation >35' To 40', Add	222.66	
For Elevated Installation >40', Add	244.92	
For Work In Restricted Working Space, Add	133.59	
26 05 33 13-1197 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	298.34	51.20
For Elevated Installation >10' To 15', Add	10.24	
For Elevated Installation >15' To 20', Add	20.48	
For Elevated Installation >20' To 25', Add	25.60	
For Elevated Installation >25' To 30', Add	35.84	
For Elevated Installation >30' To 35', Add	40.96	
For Elevated Installation >35' To 40', Add	51.20	
For Elevated Installation >40', Add	56.31	
For Work In Restricted Working Space, Add	30.72	
26 05 33 13-1198 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	335.73	59.32
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.73	
For Elevated Installation >20' To 25', Add	29.66	
For Elevated Installation >25' To 30', Add	41.52	
For Elevated Installation >30' To 35', Add	47.46	
For Elevated Installation >35' To 40', Add	59.32	
For Elevated Installation >40', Add	65.25	
For Work In Restricted Working Space, Add	35.59	
26 05 33 13-1199 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	457.75	65.01
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.00	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.01	
For Elevated Installation >40', Add	71.51	
For Work In Restricted Working Space, Add	39.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1200 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	540.02	78.01
<i>For Elevated Installation >10' To 15', Add</i>	15.60	
<i>For Elevated Installation >15' To 20', Add</i>	31.20	
<i>For Elevated Installation >20' To 25', Add</i>	39.01	
<i>For Elevated Installation >25' To 30', Add</i>	54.61	
<i>For Elevated Installation >30' To 35', Add</i>	62.41	
<i>For Elevated Installation >35' To 40', Add</i>	78.01	
<i>For Elevated Installation >40', Add</i>	85.81	
<i>For Work In Restricted Working Space, Add</i>	46.81	
26 05 33 13-1201 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	787.22	109.70
<i>For Elevated Installation >10' To 15', Add</i>	21.94	
<i>For Elevated Installation >15' To 20', Add</i>	43.88	
<i>For Elevated Installation >20' To 25', Add</i>	54.85	
<i>For Elevated Installation >25' To 30', Add</i>	76.79	
<i>For Elevated Installation >30' To 35', Add</i>	87.76	
<i>For Elevated Installation >35' To 40', Add</i>	109.70	
<i>For Elevated Installation >40', Add</i>	120.67	
<i>For Work In Restricted Working Space, Add</i>	65.82	
26 05 33 13-1202 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	996.02	146.27
<i>For Elevated Installation >10' To 15', Add</i>	29.25	
<i>For Elevated Installation >15' To 20', Add</i>	58.51	
<i>For Elevated Installation >20' To 25', Add</i>	73.14	
<i>For Elevated Installation >25' To 30', Add</i>	102.39	
<i>For Elevated Installation >30' To 35', Add</i>	117.02	
<i>For Elevated Installation >35' To 40', Add</i>	146.27	
<i>For Elevated Installation >40', Add</i>	160.90	
<i>For Work In Restricted Working Space, Add</i>	87.76	
26 05 33 13-1203 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,449.11	182.83
<i>For Elevated Installation >10' To 15', Add</i>	36.57	
<i>For Elevated Installation >15' To 20', Add</i>	73.13	
<i>For Elevated Installation >20' To 25', Add</i>	91.42	
<i>For Elevated Installation >25' To 30', Add</i>	127.98	
<i>For Elevated Installation >30' To 35', Add</i>	146.27	
<i>For Elevated Installation >35' To 40', Add</i>	182.84	
<i>For Elevated Installation >40', Add</i>	201.12	
<i>For Work In Restricted Working Space, Add</i>	109.70	
26 05 33 13-1204 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,812.34	222.65
<i>For Elevated Installation >10' To 15', Add</i>	44.53	
<i>For Elevated Installation >15' To 20', Add</i>	89.06	
<i>For Elevated Installation >20' To 25', Add</i>	111.33	
<i>For Elevated Installation >25' To 30', Add</i>	155.86	
<i>For Elevated Installation >30' To 35', Add</i>	178.12	
<i>For Elevated Installation >35' To 40', Add</i>	222.66	
<i>For Elevated Installation >40', Add</i>	244.92	
<i>For Work In Restricted Working Space, Add</i>	133.59	
26 05 33 13-1205 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers <small>(26 05 33 13-0802)</small>		
26 05 33 13-1206 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	142.28	7.32
<i>For Elevated Installation >10' To 15', Add</i>	1.46	
<i>For Elevated Installation >15' To 20', Add</i>	2.92	
<i>For Elevated Installation >20' To 25', Add</i>	3.66	
<i>For Elevated Installation >25' To 30', Add</i>	5.12	
<i>For Elevated Installation >30' To 35', Add</i>	5.85	
<i>For Elevated Installation >35' To 40', Add</i>	7.31	
<i>For Elevated Installation >40', Add</i>	8.04	
<i>For Work In Restricted Working Space, Add</i>	4.39	
26 05 33 13-1207 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	143.92	8.13
<i>For Elevated Installation >10' To 15', Add</i>	1.63	
<i>For Elevated Installation >15' To 20', Add</i>	3.25	
<i>For Elevated Installation >20' To 25', Add</i>	4.07	
<i>For Elevated Installation >25' To 30', Add</i>	5.69	
<i>For Elevated Installation >30' To 35', Add</i>	6.50	
<i>For Elevated Installation >35' To 40', Add</i>	8.13	
<i>For Elevated Installation >40', Add</i>	8.94	
<i>For Work In Restricted Working Space, Add</i>	4.88	
26 05 33 13-1208 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	203.41	11.38
<i>For Elevated Installation >10' To 15', Add</i>	2.28	
<i>For Elevated Installation >15' To 20', Add</i>	4.55	
<i>For Elevated Installation >20' To 25', Add</i>	5.69	
<i>For Elevated Installation >25' To 30', Add</i>	7.96	
<i>For Elevated Installation >30' To 35', Add</i>	9.10	
<i>For Elevated Installation >35' To 40', Add</i>	11.38	
<i>For Elevated Installation >40', Add</i>	12.51	
<i>For Work In Restricted Working Space, Add</i>	6.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1209	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	206.66	13.00
			<i>For Elevated Installation >10' To 15', Add</i>	2.60	
			<i>For Elevated Installation >15' To 20', Add</i>	5.20	
			<i>For Elevated Installation >20' To 25', Add</i>	6.50	
			<i>For Elevated Installation >25' To 30', Add</i>	9.10	
			<i>For Elevated Installation >30' To 35', Add</i>	10.40	
			<i>For Elevated Installation >35' To 40', Add</i>	13.00	
			<i>For Elevated Installation >40', Add</i>	14.30	
			<i>For Work In Restricted Working Space, Add</i>	7.80	
26 05 33 13-1210	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	358.71	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
26 05 33 13-1211	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	366.84	19.50
			<i>For Elevated Installation >10' To 15', Add</i>	3.90	
			<i>For Elevated Installation >15' To 20', Add</i>	7.80	
			<i>For Elevated Installation >20' To 25', Add</i>	9.75	
			<i>For Elevated Installation >25' To 30', Add</i>	13.65	
			<i>For Elevated Installation >30' To 35', Add</i>	15.60	
			<i>For Elevated Installation >35' To 40', Add</i>	19.51	
			<i>For Elevated Installation >40', Add</i>	21.46	
			<i>For Work In Restricted Working Space, Add</i>	11.70	
26 05 33 13-1212	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	550.03	21.94
			<i>For Elevated Installation >10' To 15', Add</i>	4.39	
			<i>For Elevated Installation >15' To 20', Add</i>	8.78	
			<i>For Elevated Installation >20' To 25', Add</i>	10.97	
			<i>For Elevated Installation >25' To 30', Add</i>	15.36	
			<i>For Elevated Installation >30' To 35', Add</i>	17.55	
			<i>For Elevated Installation >35' To 40', Add</i>	21.94	
			<i>For Elevated Installation >40', Add</i>	24.13	
			<i>For Work In Restricted Working Space, Add</i>	13.16	
26 05 33 13-1213	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	563.03	28.44
			<i>For Elevated Installation >10' To 15', Add</i>	5.69	
			<i>For Elevated Installation >15' To 20', Add</i>	11.38	
			<i>For Elevated Installation >20' To 25', Add</i>	14.22	
			<i>For Elevated Installation >25' To 30', Add</i>	19.91	
			<i>For Elevated Installation >30' To 35', Add</i>	22.75	
			<i>For Elevated Installation >35' To 40', Add</i>	28.44	
			<i>For Elevated Installation >40', Add</i>	31.28	
			<i>For Work In Restricted Working Space, Add</i>	17.06	
26 05 33 13-1214			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings <small>(26 05 33 13-0802)</small>		
26 05 33 13-1215	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	247.61	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1216	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	292.95	25.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.08	
			<i>For Elevated Installation >20' To 25', Add</i>	12.60	
			<i>For Elevated Installation >25' To 30', Add</i>	17.63	
			<i>For Elevated Installation >30' To 35', Add</i>	20.15	
			<i>For Elevated Installation >35' To 40', Add</i>	25.19	
			<i>For Elevated Installation >40', Add</i>	27.71	
			<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1217	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	347.11	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1218 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	426.86	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1219 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	568.25	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-1220 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	782.92	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	
26 05 33 13-1221 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,115.56	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-1222 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,389.35	76.38
For Elevated Installation >10' To 15', Add	15.28	
For Elevated Installation >15' To 20', Add	30.55	
For Elevated Installation >20' To 25', Add	38.19	
For Elevated Installation >25' To 30', Add	53.47	
For Elevated Installation >30' To 35', Add	61.11	
For Elevated Installation >35' To 40', Add	76.39	
For Elevated Installation >40', Add	84.02	
For Work In Restricted Working Space, Add	45.83	
26 05 33 13-1223 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,942.33	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-1224 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,242.87	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-1225 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper <small>(26 05 33 13-0802)</small>		
26 05 33 13-1226 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	389.41	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1227	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	405.73	25.19
			<i>For Elevated Installation >10' To 15', Add</i>	5.04	
			<i>For Elevated Installation >15' To 20', Add</i>	10.08	
			<i>For Elevated Installation >20' To 25', Add</i>	12.60	
			<i>For Elevated Installation >25' To 30', Add</i>	17.63	
			<i>For Elevated Installation >30' To 35', Add</i>	20.15	
			<i>For Elevated Installation >35' To 40', Add</i>	25.19	
			<i>For Elevated Installation >40', Add</i>	27.71	
			<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1228	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	456.55	30.88
			<i>For Elevated Installation >10' To 15', Add</i>	6.18	
			<i>For Elevated Installation >15' To 20', Add</i>	12.35	
			<i>For Elevated Installation >20' To 25', Add</i>	15.44	
			<i>For Elevated Installation >25' To 30', Add</i>	21.62	
			<i>For Elevated Installation >30' To 35', Add</i>	24.70	
			<i>For Elevated Installation >35' To 40', Add</i>	30.88	
			<i>For Elevated Installation >40', Add</i>	33.97	
			<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1229	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	551.92	35.75
			<i>For Elevated Installation >10' To 15', Add</i>	7.15	
			<i>For Elevated Installation >15' To 20', Add</i>	14.30	
			<i>For Elevated Installation >20' To 25', Add</i>	17.88	
			<i>For Elevated Installation >25' To 30', Add</i>	25.03	
			<i>For Elevated Installation >30' To 35', Add</i>	28.60	
			<i>For Elevated Installation >35' To 40', Add</i>	35.76	
			<i>For Elevated Installation >40', Add</i>	39.33	
			<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1230	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	668.10	40.63
			<i>For Elevated Installation >10' To 15', Add</i>	8.13	
			<i>For Elevated Installation >15' To 20', Add</i>	16.25	
			<i>For Elevated Installation >20' To 25', Add</i>	20.32	
			<i>For Elevated Installation >25' To 30', Add</i>	28.44	
			<i>For Elevated Installation >30' To 35', Add</i>	32.50	
			<i>For Elevated Installation >35' To 40', Add</i>	40.63	
			<i>For Elevated Installation >40', Add</i>	44.69	
			<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1231	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	851.67	44.69
			<i>For Elevated Installation >10' To 15', Add</i>	8.94	
			<i>For Elevated Installation >15' To 20', Add</i>	17.88	
			<i>For Elevated Installation >20' To 25', Add</i>	22.35	
			<i>For Elevated Installation >25' To 30', Add</i>	31.29	
			<i>For Elevated Installation >30' To 35', Add</i>	35.76	
			<i>For Elevated Installation >35' To 40', Add</i>	44.70	
			<i>For Elevated Installation >40', Add</i>	49.16	
			<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1232	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,254.04	56.07
			<i>For Elevated Installation >10' To 15', Add</i>	11.21	
			<i>For Elevated Installation >15' To 20', Add</i>	22.43	
			<i>For Elevated Installation >20' To 25', Add</i>	28.04	
			<i>For Elevated Installation >25' To 30', Add</i>	39.25	
			<i>For Elevated Installation >30' To 35', Add</i>	44.86	
			<i>For Elevated Installation >35' To 40', Add</i>	56.07	
			<i>For Elevated Installation >40', Add</i>	61.68	
			<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1233	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	1,574.39	76.38
			<i>For Elevated Installation >10' To 15', Add</i>	15.28	
			<i>For Elevated Installation >15' To 20', Add</i>	30.55	
			<i>For Elevated Installation >20' To 25', Add</i>	38.19	
			<i>For Elevated Installation >25' To 30', Add</i>	53.47	
			<i>For Elevated Installation >30' To 35', Add</i>	61.11	
			<i>For Elevated Installation >35' To 40', Add</i>	76.39	
			<i>For Elevated Installation >40', Add</i>	84.02	
			<i>For Work In Restricted Working Space, Add</i>	45.83	
26 05 33 13-1234	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper.....	2,002.07	86.13
			<i>For Elevated Installation >10' To 15', Add</i>	17.23	
			<i>For Elevated Installation >15' To 20', Add</i>	34.45	
			<i>For Elevated Installation >20' To 25', Add</i>	43.07	
			<i>For Elevated Installation >25' To 30', Add</i>	60.29	
			<i>For Elevated Installation >30' To 35', Add</i>	68.91	
			<i>For Elevated Installation >35' To 40', Add</i>	86.14	
			<i>For Elevated Installation >40', Add</i>	94.75	
			<i>For Work In Restricted Working Space, Add</i>	51.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1235 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,507.44	112.14
<i>For Elevated Installation >10' To 15', Add</i>	22.43	
<i>For Elevated Installation >15' To 20', Add</i>	44.85	
<i>For Elevated Installation >20' To 25', Add</i>	56.07	
<i>For Elevated Installation >25' To 30', Add</i>	78.49	
<i>For Elevated Installation >30' To 35', Add</i>	89.71	
<i>For Elevated Installation >35' To 40', Add</i>	112.14	
<i>For Elevated Installation >40', Add</i>	123.35	
<i>For Work In Restricted Working Space, Add</i>	67.28	
26 05 33 13-1236 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs <small>(26 05 33 13-0802)</small>		
26 05 33 13-1237 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	82.83	9.75
<i>For Elevated Installation >10' To 15', Add</i>	1.95	
<i>For Elevated Installation >15' To 20', Add</i>	3.90	
<i>For Elevated Installation >20' To 25', Add</i>	4.88	
<i>For Elevated Installation >25' To 30', Add</i>	6.83	
<i>For Elevated Installation >30' To 35', Add</i>	7.80	
<i>For Elevated Installation >35' To 40', Add</i>	9.75	
<i>For Elevated Installation >40', Add</i>	10.73	
<i>For Work In Restricted Working Space, Add</i>	5.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.85	
26 05 33 13-1238 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	90.37	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1239 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	99.86	14.62
<i>For Elevated Installation >10' To 15', Add</i>	2.93	
<i>For Elevated Installation >15' To 20', Add</i>	5.85	
<i>For Elevated Installation >20' To 25', Add</i>	7.32	
<i>For Elevated Installation >25' To 30', Add</i>	10.24	
<i>For Elevated Installation >30' To 35', Add</i>	11.70	
<i>For Elevated Installation >35' To 40', Add</i>	14.63	
<i>For Elevated Installation >40', Add</i>	16.09	
<i>For Work In Restricted Working Space, Add</i>	8.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.78	
26 05 33 13-1240 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	113.43	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1241 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	151.27	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1242 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	184.12	22.75
<i>For Elevated Installation >10' To 15', Add</i>	4.55	
<i>For Elevated Installation >15' To 20', Add</i>	9.10	
<i>For Elevated Installation >20' To 25', Add</i>	11.38	
<i>For Elevated Installation >25' To 30', Add</i>	15.93	
<i>For Elevated Installation >30' To 35', Add</i>	18.20	
<i>For Elevated Installation >35' To 40', Add</i>	22.75	
<i>For Elevated Installation >40', Add</i>	25.03	
<i>For Work In Restricted Working Space, Add</i>	13.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1243 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	262.13	28.44
<i>For Elevated Installation >10' To 15', Add</i>	5.69	
<i>For Elevated Installation >15' To 20', Add</i>	11.38	
<i>For Elevated Installation >20' To 25', Add</i>	14.22	
<i>For Elevated Installation >25' To 30', Add</i>	19.91	
<i>For Elevated Installation >30' To 35', Add</i>	22.75	
<i>For Elevated Installation >35' To 40', Add</i>	28.44	
<i>For Elevated Installation >40', Add</i>	31.28	
<i>For Work In Restricted Working Space, Add</i>	17.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.06	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1244 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	342.57	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1245 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	435.41	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1246 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	548.30	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1247 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	689.26	91.01
For Elevated Installation >10' To 15', Add	18.20	
For Elevated Installation >15' To 20', Add	36.40	
For Elevated Installation >20' To 25', Add	45.51	
For Elevated Installation >25' To 30', Add	63.71	
For Elevated Installation >30' To 35', Add	72.81	
For Elevated Installation >35' To 40', Add	91.01	
For Elevated Installation >40', Add	100.11	
For Work In Restricted Working Space, Add	54.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.61	
26 05 33 13-1248 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	1,039.54	137.33
For Elevated Installation >10' To 15', Add	27.47	
For Elevated Installation >15' To 20', Add	54.93	
For Elevated Installation >20' To 25', Add	68.67	
For Elevated Installation >25' To 30', Add	96.13	
For Elevated Installation >30' To 35', Add	109.86	
For Elevated Installation >35' To 40', Add	137.33	
For Elevated Installation >40', Add	151.06	
For Work In Restricted Working Space, Add	82.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.40	
26 05 33 13-1249 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0802)		
26 05 33 13-1250 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	123.11	9.75
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.75	
For Elevated Installation >40', Add	10.73	
For Work In Restricted Working Space, Add	5.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.85	
26 05 33 13-1251 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	130.94	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1252 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	141.32	14.62
For Elevated Installation >10' To 15', Add	2.93	
For Elevated Installation >15' To 20', Add	5.85	
For Elevated Installation >20' To 25', Add	7.32	
For Elevated Installation >25' To 30', Add	10.24	
For Elevated Installation >30' To 35', Add	11.70	
For Elevated Installation >35' To 40', Add	14.63	
For Elevated Installation >40', Add	16.09	
For Work In Restricted Working Space, Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1253 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	161.78	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1254 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	174.10	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1255 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	196.83	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1256 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	297.81	28.44
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.38	
For Elevated Installation >20' To 25', Add	14.22	
For Elevated Installation >25' To 30', Add	19.91	
For Elevated Installation >30' To 35', Add	22.75	
For Elevated Installation >35' To 40', Add	28.44	
For Elevated Installation >40', Add	31.28	
For Work In Restricted Working Space, Add	17.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.06	
26 05 33 13-1257 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	357.95	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1258 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	438.74	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1259 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	569.75	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1260 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	887.67	91.01
For Elevated Installation >10' To 15', Add	18.20	
For Elevated Installation >15' To 20', Add	36.40	
For Elevated Installation >20' To 25', Add	45.51	
For Elevated Installation >25' To 30', Add	63.71	
For Elevated Installation >30' To 35', Add	72.81	
For Elevated Installation >35' To 40', Add	91.01	
For Elevated Installation >40', Add	100.11	
For Work In Restricted Working Space, Add	54.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.61	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1261 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,448.42	137.33
For Elevated Installation >10' To 15', Add	27.47	
For Elevated Installation >15' To 20', Add	54.93	
For Elevated Installation >20' To 25', Add	68.67	
For Elevated Installation >25' To 30', Add	96.13	
For Elevated Installation >30' To 35', Add	109.86	
For Elevated Installation >35' To 40', Add	137.33	
For Elevated Installation >40', Add	151.06	
For Work In Restricted Working Space, Add	82.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.40	
26 05 33 13-1262 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs <small>(26 05 33 13-0802)</small>		
26 05 33 13-1263 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	132.07	9.75
For Elevated Installation >10' To 15', Add	1.95	
For Elevated Installation >15' To 20', Add	3.90	
For Elevated Installation >20' To 25', Add	4.88	
For Elevated Installation >25' To 30', Add	6.83	
For Elevated Installation >30' To 35', Add	7.80	
For Elevated Installation >35' To 40', Add	9.75	
For Elevated Installation >40', Add	10.73	
For Work In Restricted Working Space, Add	5.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.85	
26 05 33 13-1264 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	139.44	12.19
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.87	
For Elevated Installation >20' To 25', Add	6.09	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.40	
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-1265 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	150.21	14.62
For Elevated Installation >10' To 15', Add	2.93	
For Elevated Installation >15' To 20', Add	5.85	
For Elevated Installation >20' To 25', Add	7.32	
For Elevated Installation >25' To 30', Add	10.24	
For Elevated Installation >30' To 35', Add	11.70	
For Elevated Installation >35' To 40', Add	14.63	
For Elevated Installation >40', Add	16.09	
For Work In Restricted Working Space, Add	8.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.78	
26 05 33 13-1266 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	188.74	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1267 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	206.65	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1268 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	219.30	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	

26 05 33 13-1269 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0802)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1270 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	102.78	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1271 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	113.66	25.19
<i>For Elevated Installation >10' To 15', Add</i>	5.04	
<i>For Elevated Installation >15' To 20', Add</i>	10.08	
<i>For Elevated Installation >20' To 25', Add</i>	12.60	
<i>For Elevated Installation >25' To 30', Add</i>	17.63	
<i>For Elevated Installation >30' To 35', Add</i>	20.15	
<i>For Elevated Installation >35' To 40', Add</i>	25.19	
<i>For Elevated Installation >40', Add</i>	27.71	
<i>For Work In Restricted Working Space, Add</i>	15.11	
26 05 33 13-1272 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	146.59	30.88
<i>For Elevated Installation >10' To 15', Add</i>	6.18	
<i>For Elevated Installation >15' To 20', Add</i>	12.35	
<i>For Elevated Installation >20' To 25', Add</i>	15.44	
<i>For Elevated Installation >25' To 30', Add</i>	21.62	
<i>For Elevated Installation >30' To 35', Add</i>	24.70	
<i>For Elevated Installation >35' To 40', Add</i>	30.88	
<i>For Elevated Installation >40', Add</i>	33.97	
<i>For Work In Restricted Working Space, Add</i>	18.53	
26 05 33 13-1273 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	208.04	35.75
<i>For Elevated Installation >10' To 15', Add</i>	7.15	
<i>For Elevated Installation >15' To 20', Add</i>	14.30	
<i>For Elevated Installation >20' To 25', Add</i>	17.88	
<i>For Elevated Installation >25' To 30', Add</i>	25.03	
<i>For Elevated Installation >30' To 35', Add</i>	28.60	
<i>For Elevated Installation >35' To 40', Add</i>	35.76	
<i>For Elevated Installation >40', Add</i>	39.33	
<i>For Work In Restricted Working Space, Add</i>	21.45	
26 05 33 13-1274 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	245.93	40.63
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Work In Restricted Working Space, Add</i>	24.38	
26 05 33 13-1275 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	308.84	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1276 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	409.24	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1277 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	521.74	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.04	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.86	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.68	
<i>For Work In Restricted Working Space, Add</i>	33.64	
26 05 33 13-1278 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	680.35	86.13
<i>For Elevated Installation >10' To 15', Add</i>	17.23	
<i>For Elevated Installation >15' To 20', Add</i>	34.45	
<i>For Elevated Installation >20' To 25', Add</i>	43.07	
<i>For Elevated Installation >25' To 30', Add</i>	60.29	
<i>For Elevated Installation >30' To 35', Add</i>	68.91	
<i>For Elevated Installation >35' To 40', Add</i>	86.14	
<i>For Elevated Installation >40', Add</i>	94.75	
<i>For Work In Restricted Working Space, Add</i>	51.68	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1279 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	876.65	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-1280 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,585.05	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1281 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,001.59	274.66
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
For Work In Restricted Working Space, Add	164.80	
26 05 33 13-1282 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0802)</small>		
26 05 33 13-1283 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	104.87	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
26 05 33 13-1284 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	121.65	25.19
For Elevated Installation >10' To 15', Add	5.04	
For Elevated Installation >15' To 20', Add	10.08	
For Elevated Installation >20' To 25', Add	12.60	
For Elevated Installation >25' To 30', Add	17.63	
For Elevated Installation >30' To 35', Add	20.15	
For Elevated Installation >35' To 40', Add	25.19	
For Elevated Installation >40', Add	27.71	
For Work In Restricted Working Space, Add	15.11	
26 05 33 13-1285 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	150.85	30.88
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.35	
For Elevated Installation >20' To 25', Add	15.44	
For Elevated Installation >25' To 30', Add	21.62	
For Elevated Installation >30' To 35', Add	24.70	
For Elevated Installation >35' To 40', Add	30.88	
For Elevated Installation >40', Add	33.97	
For Work In Restricted Working Space, Add	18.53	
26 05 33 13-1286 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	215.86	35.75
For Elevated Installation >10' To 15', Add	7.15	
For Elevated Installation >15' To 20', Add	14.30	
For Elevated Installation >20' To 25', Add	17.88	
For Elevated Installation >25' To 30', Add	25.03	
For Elevated Installation >30' To 35', Add	28.60	
For Elevated Installation >35' To 40', Add	35.76	
For Elevated Installation >40', Add	39.33	
For Work In Restricted Working Space, Add	21.45	
26 05 33 13-1287 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	256.79	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.50	
For Elevated Installation >35' To 40', Add	40.63	
For Elevated Installation >40', Add	44.69	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-1288 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	332.29	44.69
For Elevated Installation >10' To 15', Add	8.94	
For Elevated Installation >15' To 20', Add	17.88	
For Elevated Installation >20' To 25', Add	22.35	
For Elevated Installation >25' To 30', Add	31.29	
For Elevated Installation >30' To 35', Add	35.76	
For Elevated Installation >35' To 40', Add	44.70	
For Elevated Installation >40', Add	49.16	
For Work In Restricted Working Space, Add	26.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1289 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	459.42	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-1290 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	572.76	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.04	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.86	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.68	
For Work In Restricted Working Space, Add	33.64	
26 05 33 13-1291 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	772.60	86.13
For Elevated Installation >10' To 15', Add	17.23	
For Elevated Installation >15' To 20', Add	34.45	
For Elevated Installation >20' To 25', Add	43.07	
For Elevated Installation >25' To 30', Add	60.29	
For Elevated Installation >30' To 35', Add	68.91	
For Elevated Installation >35' To 40', Add	86.14	
For Elevated Installation >40', Add	94.75	
For Work In Restricted Working Space, Add	51.68	
26 05 33 13-1292 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	968.56	112.14
For Elevated Installation >10' To 15', Add	22.43	
For Elevated Installation >15' To 20', Add	44.85	
For Elevated Installation >20' To 25', Add	56.07	
For Elevated Installation >25' To 30', Add	78.49	
For Elevated Installation >30' To 35', Add	89.71	
For Elevated Installation >35' To 40', Add	112.14	
For Elevated Installation >40', Add	123.35	
For Work In Restricted Working Space, Add	67.28	
26 05 33 13-1293 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,753.53	182.83
For Elevated Installation >10' To 15', Add	36.57	
For Elevated Installation >15' To 20', Add	73.13	
For Elevated Installation >20' To 25', Add	91.42	
For Elevated Installation >25' To 30', Add	127.98	
For Elevated Installation >30' To 35', Add	146.27	
For Elevated Installation >35' To 40', Add	182.84	
For Elevated Installation >40', Add	201.12	
For Work In Restricted Working Space, Add	109.70	
26 05 33 13-1294 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,273.63	274.66
For Elevated Installation >10' To 15', Add	54.93	
For Elevated Installation >15' To 20', Add	109.86	
For Elevated Installation >20' To 25', Add	137.33	
For Elevated Installation >25' To 30', Add	192.26	
For Elevated Installation >30' To 35', Add	219.73	
For Elevated Installation >35' To 40', Add	274.66	
For Elevated Installation >40', Add	302.13	
For Work In Restricted Working Space, Add	164.80	
26 05 33 13-1295 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings <small>(26 05 33 13-0802)</small>		
26 05 33 13-1296 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	55.04	6.50
For Elevated Installation >10' To 15', Add	1.30	
For Elevated Installation >15' To 20', Add	2.60	
For Elevated Installation >20' To 25', Add	3.25	
For Elevated Installation >25' To 30', Add	4.55	
For Elevated Installation >30' To 35', Add	5.20	
For Elevated Installation >35' To 40', Add	6.50	
For Elevated Installation >40', Add	7.15	
For Work In Restricted Working Space, Add	3.90	
26 05 33 13-1297 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	60.83	8.13
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Work In Restricted Working Space, Add	4.88	
26 05 33 13-1298 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	68.68	8.13
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.07	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Work In Restricted Working Space, Add	4.88	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1299	EA		1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	84.38	8.94
			<i>For Elevated Installation >10' To 15', Add</i>	1.79	
			<i>For Elevated Installation >15' To 20', Add</i>	3.58	
			<i>For Elevated Installation >20' To 25', Add</i>	4.47	
			<i>For Elevated Installation >25' To 30', Add</i>	6.26	
			<i>For Elevated Installation >30' To 35', Add</i>	7.15	
			<i>For Elevated Installation >35' To 40', Add</i>	8.94	
			<i>For Elevated Installation >40', Add</i>	9.83	
			<i>For Work In Restricted Working Space, Add</i>	5.36	
26 05 33 13-1300	EA		1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	88.91	8.94
			<i>For Elevated Installation >10' To 15', Add</i>	1.79	
			<i>For Elevated Installation >15' To 20', Add</i>	3.58	
			<i>For Elevated Installation >20' To 25', Add</i>	4.47	
			<i>For Elevated Installation >25' To 30', Add</i>	6.26	
			<i>For Elevated Installation >30' To 35', Add</i>	7.15	
			<i>For Elevated Installation >35' To 40', Add</i>	8.94	
			<i>For Elevated Installation >40', Add</i>	9.83	
			<i>For Work In Restricted Working Space, Add</i>	5.36	
26 05 33 13-1301	EA		1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	77.64	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
26 05 33 13-1302	EA		1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	87.76	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
26 05 33 13-1303	EA		1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	133.24	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
26 05 33 13-1304	EA		2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	148.30	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
26 05 33 13-1305	EA		2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	144.38	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
26 05 33 13-1306	EA		2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	151.67	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
26 05 33 13-1307	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	170.02	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1308 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	169.97	14.62
<i>For Elevated Installation >10' To 15', Add</i>	2.93	
<i>For Elevated Installation >15' To 20', Add</i>	5.85	
<i>For Elevated Installation >20' To 25', Add</i>	7.32	
<i>For Elevated Installation >25' To 30', Add</i>	10.24	
<i>For Elevated Installation >30' To 35', Add</i>	11.70	
<i>For Elevated Installation >35' To 40', Add</i>	14.63	
<i>For Elevated Installation >40', Add</i>	16.09	
<i>For Work In Restricted Working Space, Add</i>	8.78	
26 05 33 13-1309 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	217.46	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
26 05 33 13-1310 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	317.41	23.56
<i>For Elevated Installation >10' To 15', Add</i>	4.71	
<i>For Elevated Installation >15' To 20', Add</i>	9.43	
<i>For Elevated Installation >20' To 25', Add</i>	11.78	
<i>For Elevated Installation >25' To 30', Add</i>	16.50	
<i>For Elevated Installation >30' To 35', Add</i>	18.85	
<i>For Elevated Installation >35' To 40', Add</i>	23.57	
<i>For Elevated Installation >40', Add</i>	25.92	
<i>For Work In Restricted Working Space, Add</i>	14.14	
26 05 33 13-1311 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	425.11	32.50
<i>For Elevated Installation >10' To 15', Add</i>	6.50	
<i>For Elevated Installation >15' To 20', Add</i>	13.00	
<i>For Elevated Installation >20' To 25', Add</i>	16.26	
<i>For Elevated Installation >25' To 30', Add</i>	22.76	
<i>For Elevated Installation >30' To 35', Add</i>	26.01	
<i>For Elevated Installation >35' To 40', Add</i>	32.51	
<i>For Elevated Installation >40', Add</i>	35.76	
<i>For Work In Restricted Working Space, Add</i>	19.51	
26 05 33 13-1312 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	533.37	44.69
<i>For Elevated Installation >10' To 15', Add</i>	8.94	
<i>For Elevated Installation >15' To 20', Add</i>	17.88	
<i>For Elevated Installation >20' To 25', Add</i>	22.35	
<i>For Elevated Installation >25' To 30', Add</i>	31.29	
<i>For Elevated Installation >30' To 35', Add</i>	35.76	
<i>For Elevated Installation >35' To 40', Add</i>	44.70	
<i>For Elevated Installation >40', Add</i>	49.16	
<i>For Work In Restricted Working Space, Add</i>	26.82	
26 05 33 13-1313 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples <small>(26 05 33 13-0802)</small>		
26 05 33 13-1314 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.13	9.75
<i>For Elevated Installation >10' To 15', Add</i>	1.95	
<i>For Elevated Installation >15' To 20', Add</i>	3.90	
<i>For Elevated Installation >20' To 25', Add</i>	4.88	
<i>For Elevated Installation >25' To 30', Add</i>	6.83	
<i>For Elevated Installation >30' To 35', Add</i>	7.80	
<i>For Elevated Installation >35' To 40', Add</i>	9.75	
<i>For Elevated Installation >40', Add</i>	10.73	
<i>For Work In Restricted Working Space, Add</i>	5.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.85	
26 05 33 13-1315 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.33	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1316 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.83	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1317	EA	1-1/4" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.06	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1318	EA	1-1/2" x 2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.70	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1319	EA	1/2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.02	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1320	EA	3/4" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.74	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1321	EA	1" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.26	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1322	EA	1-1/4" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.63	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1323	EA	1-1/2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.48	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1324	EA	2" x 2-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.55	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1325 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.19	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1326 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.91	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1327 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.57	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1328 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.97	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1329 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.81	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1330 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	74.42	22.75
<i>For Elevated Installation >10' To 15', Add</i>	4.55	
<i>For Elevated Installation >15' To 20', Add</i>	9.10	
<i>For Elevated Installation >20' To 25', Add</i>	11.38	
<i>For Elevated Installation >25' To 30', Add</i>	15.93	
<i>For Elevated Installation >30' To 35', Add</i>	18.20	
<i>For Elevated Installation >35' To 40', Add</i>	22.75	
<i>For Elevated Installation >40', Add</i>	25.03	
<i>For Work In Restricted Working Space, Add</i>	13.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1331 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.47	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1332 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.20	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1333	EA		1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.03	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1334	EA		1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.37	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1335	EA		1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.36	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1336	EA		2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	77.12	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1337	EA		2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	105.43	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.81	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.10	
			<i>For Elevated Installation >35' To 40', Add</i>	27.63	
			<i>For Elevated Installation >40', Add</i>	30.39	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1338	EA		3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	137.78	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1339	EA		1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.64	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1340	EA		3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.51	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1341 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.37	15.43
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.35	
For Elevated Installation >35' To 40', Add	15.44	
For Elevated Installation >40', Add	16.98	
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1342 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.76	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1343 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.90	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1344 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	79.81	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1345 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	107.81	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1346 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	142.91	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1347 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	169.10	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1348 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	200.91	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1349	EA		1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	43.96	10.56
			<i>For Elevated Installation >10' To 15', Add</i>	2.11	
			<i>For Elevated Installation >15' To 20', Add</i>	4.23	
			<i>For Elevated Installation >20' To 25', Add</i>	5.28	
			<i>For Elevated Installation >25' To 30', Add</i>	7.40	
			<i>For Elevated Installation >30' To 35', Add</i>	8.45	
			<i>For Elevated Installation >35' To 40', Add</i>	10.57	
			<i>For Elevated Installation >40', Add</i>	11.62	
			<i>For Work In Restricted Working Space, Add</i>	6.34	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1350	EA		3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.85	12.19
			<i>For Elevated Installation >10' To 15', Add</i>	2.44	
			<i>For Elevated Installation >15' To 20', Add</i>	4.87	
			<i>For Elevated Installation >20' To 25', Add</i>	6.09	
			<i>For Elevated Installation >25' To 30', Add</i>	8.53	
			<i>For Elevated Installation >30' To 35', Add</i>	9.75	
			<i>For Elevated Installation >35' To 40', Add</i>	12.19	
			<i>For Elevated Installation >40', Add</i>	13.40	
			<i>For Work In Restricted Working Space, Add</i>	7.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1351	EA		1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.73	15.43
			<i>For Elevated Installation >10' To 15', Add</i>	3.09	
			<i>For Elevated Installation >15' To 20', Add</i>	6.18	
			<i>For Elevated Installation >20' To 25', Add</i>	7.72	
			<i>For Elevated Installation >25' To 30', Add</i>	10.81	
			<i>For Elevated Installation >30' To 35', Add</i>	12.35	
			<i>For Elevated Installation >35' To 40', Add</i>	15.44	
			<i>For Elevated Installation >40', Add</i>	16.98	
			<i>For Work In Restricted Working Space, Add</i>	9.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1352	EA		1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.41	17.88
			<i>For Elevated Installation >10' To 15', Add</i>	3.58	
			<i>For Elevated Installation >15' To 20', Add</i>	7.15	
			<i>For Elevated Installation >20' To 25', Add</i>	8.94	
			<i>For Elevated Installation >25' To 30', Add</i>	12.51	
			<i>For Elevated Installation >30' To 35', Add</i>	14.30	
			<i>For Elevated Installation >35' To 40', Add</i>	17.88	
			<i>For Elevated Installation >40', Add</i>	19.66	
			<i>For Work In Restricted Working Space, Add</i>	10.73	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1353	EA		1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.57	20.32
			<i>For Elevated Installation >10' To 15', Add</i>	4.06	
			<i>For Elevated Installation >15' To 20', Add</i>	8.13	
			<i>For Elevated Installation >20' To 25', Add</i>	10.16	
			<i>For Elevated Installation >25' To 30', Add</i>	14.22	
			<i>For Elevated Installation >30' To 35', Add</i>	16.25	
			<i>For Elevated Installation >35' To 40', Add</i>	20.32	
			<i>For Elevated Installation >40', Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	12.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	
26 05 33 13-1354	EA		2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	81.28	22.75
			<i>For Elevated Installation >10' To 15', Add</i>	4.55	
			<i>For Elevated Installation >15' To 20', Add</i>	9.10	
			<i>For Elevated Installation >20' To 25', Add</i>	11.38	
			<i>For Elevated Installation >25' To 30', Add</i>	15.93	
			<i>For Elevated Installation >30' To 35', Add</i>	18.20	
			<i>For Elevated Installation >35' To 40', Add</i>	22.75	
			<i>For Elevated Installation >40', Add</i>	25.03	
			<i>For Work In Restricted Working Space, Add</i>	13.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.65	
26 05 33 13-1355	EA		2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	117.30	27.63
			<i>For Elevated Installation >10' To 15', Add</i>	5.53	
			<i>For Elevated Installation >15' To 20', Add</i>	11.05	
			<i>For Elevated Installation >20' To 25', Add</i>	13.81	
			<i>For Elevated Installation >25' To 30', Add</i>	19.34	
			<i>For Elevated Installation >30' To 35', Add</i>	22.10	
			<i>For Elevated Installation >35' To 40', Add</i>	27.63	
			<i>For Elevated Installation >40', Add</i>	30.39	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.58	
26 05 33 13-1356	EA		3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	150.59	38.20
			<i>For Elevated Installation >10' To 15', Add</i>	7.64	
			<i>For Elevated Installation >15' To 20', Add</i>	15.28	
			<i>For Elevated Installation >20' To 25', Add</i>	19.10	
			<i>For Elevated Installation >25' To 30', Add</i>	26.73	
			<i>For Elevated Installation >30' To 35', Add</i>	30.55	
			<i>For Elevated Installation >35' To 40', Add</i>	38.19	
			<i>For Elevated Installation >40', Add</i>	42.01	
			<i>For Work In Restricted Working Space, Add</i>	22.91	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1357 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	170.74	43.07
<i>For Elevated Installation >10' To 15', Add</i>	8.61	
<i>For Elevated Installation >15' To 20', Add</i>	17.23	
<i>For Elevated Installation >20' To 25', Add</i>	21.53	
<i>For Elevated Installation >25' To 30', Add</i>	30.15	
<i>For Elevated Installation >30' To 35', Add</i>	34.45	
<i>For Elevated Installation >35' To 40', Add</i>	43.07	
<i>For Elevated Installation >40', Add</i>	47.37	
<i>For Work In Restricted Working Space, Add</i>	25.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1358 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	205.29	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-1359 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	299.29	77.19
<i>For Elevated Installation >10' To 15', Add</i>	15.44	
<i>For Elevated Installation >15' To 20', Add</i>	30.88	
<i>For Elevated Installation >20' To 25', Add</i>	38.60	
<i>For Elevated Installation >25' To 30', Add</i>	54.04	
<i>For Elevated Installation >30' To 35', Add</i>	61.76	
<i>For Elevated Installation >35' To 40', Add</i>	77.20	
<i>For Elevated Installation >40', Add</i>	84.91	
<i>For Work In Restricted Working Space, Add</i>	46.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 05 33 13-1360 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.56	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1361 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.45	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1362 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.38	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1363 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.62	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	
26 05 33 13-1364 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.02	20.32
<i>For Elevated Installation >10' To 15', Add</i>	4.06	
<i>For Elevated Installation >15' To 20', Add</i>	8.13	
<i>For Elevated Installation >20' To 25', Add</i>	10.16	
<i>For Elevated Installation >25' To 30', Add</i>	14.22	
<i>For Elevated Installation >30' To 35', Add</i>	16.25	
<i>For Elevated Installation >35' To 40', Add</i>	20.32	
<i>For Elevated Installation >40', Add</i>	22.35	
<i>For Work In Restricted Working Space, Add</i>	12.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.19	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1365	EA	2" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.75 4.55 9.10 11.38 15.93 18.20 22.75 25.03 13.65 13.65	22.75
26 05 33 13-1366	EA	2-1/2" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.93 5.53 11.05 13.81 19.34 22.10 27.63 30.39 16.58 16.58	27.63
26 05 33 13-1367	EA	3" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.80 7.64 15.28 19.10 26.73 30.55 38.19 42.01 22.91 22.91	38.20
26 05 33 13-1368	EA	3-1/2" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.94 8.61 17.23 21.53 30.15 34.45 43.07 47.37 25.84 25.84	43.07
26 05 33 13-1369	EA	4" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	220.80 11.21 22.43 28.03 39.25 44.85 56.07 61.67 33.64 33.64	56.07
26 05 33 13-1370	EA	5" x 6"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	322.48 15.44 30.88 38.60 54.04 61.76 77.20 84.91 46.32 46.32	77.19
26 05 33 13-1371	EA	1/2" x 8"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.50 2.11 4.23 5.28 7.40 8.45 10.57 11.62 6.34 6.34	10.56
26 05 33 13-1372	EA	3/4" x 8"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.36 2.44 4.87 6.09 8.53 9.75 12.19 13.40 7.31 7.31	12.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1373 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.82	15.43
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.72	
For Elevated Installation >25' To 30', Add	10.81	
For Elevated Installation >30' To 35', Add	12.35	
For Elevated Installation >35' To 40', Add	15.44	
For Elevated Installation >40', Add	16.98	
For Work In Restricted Working Space, Add	9.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.26	
26 05 33 13-1374 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.93	17.88
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.15	
For Elevated Installation >20' To 25', Add	8.94	
For Elevated Installation >25' To 30', Add	12.51	
For Elevated Installation >30' To 35', Add	14.30	
For Elevated Installation >35' To 40', Add	17.88	
For Elevated Installation >40', Add	19.66	
For Work In Restricted Working Space, Add	10.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.73	
26 05 33 13-1375 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	75.95	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1376 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	89.92	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1377 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	138.78	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1378 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	174.76	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1379 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	202.96	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1380 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	244.08	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	

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26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1381	EA	5" x 8"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	338.37 15.44 30.88 38.60 54.04 61.76 77.20 84.91 46.32 46.32	77.19
26 05 33 13-1382	EA	1 1/2" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.48 2.11 4.23 5.28 7.40 8.45 10.57 11.62 6.34 6.34	10.56
26 05 33 13-1383	EA	3/4" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.33 2.44 4.87 6.09 8.53 9.75 12.19 13.40 7.31 7.31	12.19
26 05 33 13-1384	EA	1" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.24 3.09 6.18 7.72 10.81 12.35 15.44 16.98 9.26 9.26	15.43
26 05 33 13-1385	EA	1-1/4" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.27 3.58 7.15 8.94 12.51 14.30 17.88 19.66 10.73 10.73	17.88
26 05 33 13-1386	EA	1-1/2" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.94 4.06 8.13 10.16 14.22 16.25 20.32 22.35 12.19 12.19	20.32
26 05 33 13-1387	EA	2" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.47 4.55 9.10 11.38 15.93 18.20 22.75 25.03 13.65 13.65	22.75
26 05 33 13-1388	EA	2-1/2" x 10"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.30 5.53 11.05 13.81 19.34 22.10 27.63 30.39 16.58 16.58	27.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1389 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	192.66	38.20
<i>For Elevated Installation >10' To 15', Add</i>	7.64	
<i>For Elevated Installation >15' To 20', Add</i>	15.28	
<i>For Elevated Installation >20' To 25', Add</i>	19.10	
<i>For Elevated Installation >25' To 30', Add</i>	26.73	
<i>For Elevated Installation >30' To 35', Add</i>	30.55	
<i>For Elevated Installation >35' To 40', Add</i>	38.19	
<i>For Elevated Installation >40', Add</i>	42.01	
<i>For Work In Restricted Working Space, Add</i>	22.91	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.91	
26 05 33 13-1390 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	227.13	43.07
<i>For Elevated Installation >10' To 15', Add</i>	8.61	
<i>For Elevated Installation >15' To 20', Add</i>	17.23	
<i>For Elevated Installation >20' To 25', Add</i>	21.53	
<i>For Elevated Installation >25' To 30', Add</i>	30.15	
<i>For Elevated Installation >30' To 35', Add</i>	34.45	
<i>For Elevated Installation >35' To 40', Add</i>	43.07	
<i>For Elevated Installation >40', Add</i>	47.37	
<i>For Work In Restricted Working Space, Add</i>	25.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84	
26 05 33 13-1391 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	284.82	56.07
<i>For Elevated Installation >10' To 15', Add</i>	11.21	
<i>For Elevated Installation >15' To 20', Add</i>	22.43	
<i>For Elevated Installation >20' To 25', Add</i>	28.03	
<i>For Elevated Installation >25' To 30', Add</i>	39.25	
<i>For Elevated Installation >30' To 35', Add</i>	44.85	
<i>For Elevated Installation >35' To 40', Add</i>	56.07	
<i>For Elevated Installation >40', Add</i>	61.67	
<i>For Work In Restricted Working Space, Add</i>	33.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.64	
26 05 33 13-1392 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	370.09	77.19
<i>For Elevated Installation >10' To 15', Add</i>	15.44	
<i>For Elevated Installation >15' To 20', Add</i>	30.88	
<i>For Elevated Installation >20' To 25', Add</i>	38.60	
<i>For Elevated Installation >25' To 30', Add</i>	54.04	
<i>For Elevated Installation >30' To 35', Add</i>	61.76	
<i>For Elevated Installation >35' To 40', Add</i>	77.20	
<i>For Elevated Installation >40', Add</i>	84.91	
<i>For Work In Restricted Working Space, Add</i>	46.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 05 33 13-1393 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.50	10.56
<i>For Elevated Installation >10' To 15', Add</i>	2.11	
<i>For Elevated Installation >15' To 20', Add</i>	4.23	
<i>For Elevated Installation >20' To 25', Add</i>	5.28	
<i>For Elevated Installation >25' To 30', Add</i>	7.40	
<i>For Elevated Installation >30' To 35', Add</i>	8.45	
<i>For Elevated Installation >35' To 40', Add</i>	10.57	
<i>For Elevated Installation >40', Add</i>	11.62	
<i>For Work In Restricted Working Space, Add</i>	6.34	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.34	
26 05 33 13-1394 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.46	12.19
<i>For Elevated Installation >10' To 15', Add</i>	2.44	
<i>For Elevated Installation >15' To 20', Add</i>	4.87	
<i>For Elevated Installation >20' To 25', Add</i>	6.09	
<i>For Elevated Installation >25' To 30', Add</i>	8.53	
<i>For Elevated Installation >30' To 35', Add</i>	9.75	
<i>For Elevated Installation >35' To 40', Add</i>	12.19	
<i>For Elevated Installation >40', Add</i>	13.40	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.31	
26 05 33 13-1395 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	62.86	15.43
<i>For Elevated Installation >10' To 15', Add</i>	3.09	
<i>For Elevated Installation >15' To 20', Add</i>	6.18	
<i>For Elevated Installation >20' To 25', Add</i>	7.72	
<i>For Elevated Installation >25' To 30', Add</i>	10.81	
<i>For Elevated Installation >30' To 35', Add</i>	12.35	
<i>For Elevated Installation >35' To 40', Add</i>	15.44	
<i>For Elevated Installation >40', Add</i>	16.98	
<i>For Work In Restricted Working Space, Add</i>	9.26	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 05 33 13-1396 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.39	17.88
<i>For Elevated Installation >10' To 15', Add</i>	3.58	
<i>For Elevated Installation >15' To 20', Add</i>	7.15	
<i>For Elevated Installation >20' To 25', Add</i>	8.94	
<i>For Elevated Installation >25' To 30', Add</i>	12.51	
<i>For Elevated Installation >30' To 35', Add</i>	14.30	
<i>For Elevated Installation >35' To 40', Add</i>	17.88	
<i>For Elevated Installation >40', Add</i>	19.66	
<i>For Work In Restricted Working Space, Add</i>	10.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.73	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1397 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	91.39	20.32
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Work In Restricted Working Space, Add	12.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-1398 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	108.95	22.75
For Elevated Installation >10' To 15', Add	4.55	
For Elevated Installation >15' To 20', Add	9.10	
For Elevated Installation >20' To 25', Add	11.38	
For Elevated Installation >25' To 30', Add	15.93	
For Elevated Installation >30' To 35', Add	18.20	
For Elevated Installation >35' To 40', Add	22.75	
For Elevated Installation >40', Add	25.03	
For Work In Restricted Working Space, Add	13.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 05 33 13-1399 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	168.01	27.63
For Elevated Installation >10' To 15', Add	5.53	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.34	
For Elevated Installation >30' To 35', Add	22.10	
For Elevated Installation >35' To 40', Add	27.63	
For Elevated Installation >40', Add	30.39	
For Work In Restricted Working Space, Add	16.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58	
26 05 33 13-1400 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	219.48	38.20
For Elevated Installation >10' To 15', Add	7.64	
For Elevated Installation >15' To 20', Add	15.28	
For Elevated Installation >20' To 25', Add	19.10	
For Elevated Installation >25' To 30', Add	26.73	
For Elevated Installation >30' To 35', Add	30.55	
For Elevated Installation >35' To 40', Add	38.19	
For Elevated Installation >40', Add	42.01	
For Work In Restricted Working Space, Add	22.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.91	
26 05 33 13-1401 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	241.97	43.07
For Elevated Installation >10' To 15', Add	8.61	
For Elevated Installation >15' To 20', Add	17.23	
For Elevated Installation >20' To 25', Add	21.53	
For Elevated Installation >25' To 30', Add	30.15	
For Elevated Installation >30' To 35', Add	34.45	
For Elevated Installation >35' To 40', Add	43.07	
For Elevated Installation >40', Add	47.37	
For Work In Restricted Working Space, Add	25.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.84	
26 05 33 13-1402 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	297.32	56.07
For Elevated Installation >10' To 15', Add	11.21	
For Elevated Installation >15' To 20', Add	22.43	
For Elevated Installation >20' To 25', Add	28.03	
For Elevated Installation >25' To 30', Add	39.25	
For Elevated Installation >30' To 35', Add	44.85	
For Elevated Installation >35' To 40', Add	56.07	
For Elevated Installation >40', Add	61.67	
For Work In Restricted Working Space, Add	33.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.64	
26 05 33 13-1403 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	374.61	77.19
For Elevated Installation >10' To 15', Add	15.44	
For Elevated Installation >15' To 20', Add	30.88	
For Elevated Installation >20' To 25', Add	38.60	
For Elevated Installation >25' To 30', Add	54.04	
For Elevated Installation >30' To 35', Add	61.76	
For Elevated Installation >35' To 40', Add	77.20	
For Elevated Installation >40', Add	84.91	
For Work In Restricted Working Space, Add	46.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.32	
26 05 33 13-1404 Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0058)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1405 Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1404)</small>		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1406 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.28	2.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.94	
For Work In Restricted Working Space, Add	1.88	
26 05 33 13-1407 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	8.25	2.75
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.03	
For Work In Restricted Working Space, Add	2.06	
26 05 33 13-1408 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.45	3.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.13	
For Work In Restricted Working Space, Add	2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1409 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling	10.69	3.25
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.22	
For Work In Restricted Working Space, Add	2.44	
26 05 33 13-1410 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	11.93	3.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.31	
For Work In Restricted Working Space, Add	2.63	
26 05 33 13-1411 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	14.25	4.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.50	
For Work In Restricted Working Space, Add	3.00	
26 05 33 13-1412 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	19.21	5.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.88	
For Work In Restricted Working Space, Add	3.75	
26 05 33 13-1413 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	23.82	6.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.25	
For Work In Restricted Working Space, Add	4.50	
26 05 33 13-1414 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	29.33	7.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.81	
For Work In Restricted Working Space, Add	5.63	
26 05 33 13-1415 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	36.29	9.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.56	
For Work In Restricted Working Space, Add	7.13	
26 05 33 13-1416 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	47.95	12.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.50	
For Work In Restricted Working Space, Add	9.00	
26 05 33 13-1417 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	61.11	15.00
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.63	
For Work In Restricted Working Space, Add	11.25	
26 05 33 13-1418 Aluminum 90 Degree Elbows <small>(26 05 33 13-1404)</small>		
26 05 33 13-1419 EA 1" Aluminum 90 Degree Elbow	43.43	13.00
For Work In Restricted Working Space, Add	9.75	
26 05 33 13-1420 EA 1-1/4" Aluminum 90 Degree Elbow	54.24	14.75
For Work In Restricted Working Space, Add	11.06	
26 05 33 13-1421 EA 1-1/2" Aluminum 90 Degree Elbow	65.61	17.00
For Work In Restricted Working Space, Add	12.75	
26 05 33 13-1422 EA 2" Aluminum 90 Degree Elbow	82.77	19.50
For Work In Restricted Working Space, Add	14.63	
26 05 33 13-1423 EA 2-1/2" Aluminum 90 Degree Elbow	116.69	23.75
For Work In Restricted Working Space, Add	17.81	
26 05 33 13-1424 EA 3" Aluminum 90 Degree Elbow	165.41	30.75
For Work In Restricted Working Space, Add	23.06	
26 05 33 13-1425 EA 3-1/2" Aluminum 90 Degree Elbow	224.33	34.51
For Work In Restricted Working Space, Add	25.88	
26 05 33 13-1426 EA 4" Aluminum 90 Degree Elbow	271.85	43.26
For Work In Restricted Working Space, Add	32.44	
26 05 33 13-1427 EA 5" Aluminum 90 Degree Elbow	660.34	70.51
For Work In Restricted Working Space, Add	52.88	
26 05 33 13-1428 EA 6" Aluminum 90 Degree Elbow	934.78	106.01
For Work In Restricted Working Space, Add	79.51	
26 05 33 13-1429 Aluminum Bushing Set With Locknut <small>(26 05 33 13-1404)</small>		
26 05 33 13-1430 EA 1/2" Aluminum Bushing Set With Locknut.....	13.33	5.00
For Work In Restricted Working Space, Add	3.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 33 13-1431 EA 3/4" Aluminum Bushing Set With Locknut.....	19.61	6.50
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-1432 EA 1" Aluminum Bushing Set With Locknut.....	20.54	8.00
For Work In Restricted Working Space, Add	6.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.00	
26 05 33 13-1433 EA 1-1/4" Aluminum Bushing Set With Locknut	23.10	9.00
For Work In Restricted Working Space, Add	6.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-1434 EA 1-1/2" Aluminum Bushing Set With Locknut	28.27	11.00
For Work In Restricted Working Space, Add	8.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-1435 EA 2" Aluminum Bushing Set With Locknut.....	34.39	13.25
For Work In Restricted Working Space, Add	9.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.94	
26 05 33 13-1436 EA 2-1/2" Aluminum Bushing Set With Locknut	41.97	15.76
For Work In Restricted Working Space, Add	11.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.81	
26 05 33 13-1437 EA 3" Aluminum Bushing Set With Locknut.....	48.84	18.00
For Work In Restricted Working Space, Add	13.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.50	
26 05 33 13-1438 EA 3-1/2" Aluminum Bushing Set With Locknut	52.84	19.50
For Work In Restricted Working Space, Add	14.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.63	
26 05 33 13-1439 EA 4" Aluminum Bushing Set With Locknut.....	57.41	21.01
For Work In Restricted Working Space, Add	15.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.75	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1440	EA		5" Aluminum Bushing Set With Locknut.....	76.14	28.00
			<i>For Work In Restricted Working Space, Add</i>	21.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.00	
26 05 33 13-1441	EA		6" Aluminum Bushing Set With Locknut.....	113.44	42.00
			<i>For Work In Restricted Working Space, Add</i>	31.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.51	
26 05 33 13-1442			Schedule 40 Polyvinyl Chloride (PVC) Conduit <small>(26 05 33 13-0058)</small>		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1443			Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings <small>(26 05 33 13-1442)</small>		
			Note: Includes field bend conduit up to 1".		
26 05 33 13-1444	LF		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.23	1.81
			<i>For Schedule 60, Add</i>	0.40	
			<i>For Schedule 80, Add</i>	0.70	
26 05 33 13-1445	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	5.91	1.98
			<i>For Schedule 60, Add</i>	0.49	
			<i>For Schedule 80, Add</i>	0.83	
26 05 33 13-1446	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	7.21	2.31
			<i>For Schedule 60, Add</i>	0.64	
			<i>For Schedule 80, Add</i>	1.08	
26 05 33 13-1447	LF		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	8.52	2.64
			<i>For Schedule 60, Add</i>	0.81	
			<i>For Schedule 80, Add</i>	1.33	
26 05 33 13-1448	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	9.99	3.08
			<i>For Schedule 60, Add</i>	0.95	
			<i>For Schedule 80, Add</i>	1.57	
26 05 33 13-1449	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	11.82	3.53
			<i>For Schedule 60, Add</i>	1.19	
			<i>For Schedule 80, Add</i>	1.93	
26 05 33 13-1450	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	15.26	4.19
			<i>For Schedule 60, Add</i>	1.72	
			<i>For Schedule 80, Add</i>	2.72	
26 05 33 13-1451	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	17.82	4.85
			<i>For Schedule 60, Add</i>	2.03	
			<i>For Schedule 80, Add</i>	3.20	
26 05 33 13-1452	LF		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	21.61	5.74
			<i>For Schedule 60, Add</i>	2.54	
			<i>For Schedule 80, Add</i>	3.98	
26 05 33 13-1453	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	25.65	7.06
			<i>For Schedule 60, Add</i>	2.88	
			<i>For Schedule 80, Add</i>	4.57	
26 05 33 13-1454	LF		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	36.48	9.93
			<i>For Schedule 60, Add</i>	4.16	
			<i>For Schedule 80, Add</i>	6.57	
26 05 33 13-1455	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End.....	48.49	13.23
			<i>For Schedule 60, Add</i>	5.51	
			<i>For Schedule 80, Add</i>	8.70	
26 05 33 13-1456			Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows <small>(26 05 33 13-1442)</small>		
			See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1457	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	23.30	8.82
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	1.41	
			<i>For Schedule 80, Add</i>	2.64	
26 05 33 13-1458	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	25.74	9.71
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	1.58	
			<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-1459	EA		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	29.88	11.03
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	1.96	
			<i>For Schedule 80, Add</i>	3.57	
26 05 33 13-1460	EA		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	38.63	14.11
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	2.60	
			<i>For Schedule 80, Add</i>	4.70	
26 05 33 13-1461	EA		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	48.64	17.65
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	3.34	
			<i>For Schedule 80, Add</i>	6.00	
26 05 33 13-1462	EA		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	61.40	22.06
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	4.32	
			<i>For Schedule 80, Add</i>	7.71	
26 05 33 13-1463	EA		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	77.27	26.47
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	6.08	
			<i>For Schedule 80, Add</i>	10.50	
26 05 33 13-1464	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	95.36	30.88
			See CSI section 26 05 33 13-2234 for conduit field bending.		
			<i>For Schedule 60, Add</i>	8.40	
			<i>For Schedule 80, Add</i>	14.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1465 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	119.00	37.50
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	11.00	
For Schedule 80, Add	18.22	
26 05 33 13-1466 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	142.79	44.11
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	13.64	
For Schedule 80, Add	22.40	
26 05 33 13-1467 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	195.08	55.14
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	21.20	
For Schedule 80, Add	33.82	
26 05 33 13-1468 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	238.40	66.17
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	26.51	
For Schedule 80, Add	42.08	
26 05 33 13-1469 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1442)		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1470 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	23.30	8.82
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.41	
For Schedule 80, Add	2.64	
26 05 33 13-1471 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	25.65	9.71
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.56	
For Schedule 80, Add	2.91	
26 05 33 13-1472 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	29.76	11.03
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	1.93	
For Schedule 80, Add	3.52	
26 05 33 13-1473 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	38.27	14.11
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	2.51	
For Schedule 80, Add	4.57	
26 05 33 13-1474 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	47.83	17.65
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	3.14	
For Schedule 80, Add	5.71	
26 05 33 13-1475 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	60.96	22.06
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	4.21	
For Schedule 80, Add	7.55	
26 05 33 13-1476 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	76.45	26.47
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	5.88	
For Schedule 80, Add	10.22	
26 05 33 13-1477 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	94.33	30.88
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	8.14	
For Schedule 80, Add	13.72	
26 05 33 13-1478 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	116.12	37.50
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	10.28	
For Schedule 80, Add	17.21	
26 05 33 13-1479 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	140.32	44.11
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	13.02	
For Schedule 80, Add	21.54	
26 05 33 13-1480 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	191.88	55.14
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	20.40	
For Schedule 80, Add	32.70	
26 05 33 13-1481 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	228.85	66.17
See CSI section 26 05 33 13-2234 for conduit field bending.		
For Schedule 60, Add	24.13	
For Schedule 80, Add	38.74	
26 05 33 13-1482 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1442)		
26 05 33 13-1483 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	16.01	6.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-1484 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	18.42	7.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.30	
26 05 33 13-1485 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	20.91	7.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.96	
26 05 33 13-1486 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	23.52	8.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-1487 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	29.16	11.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.27	
26 05 33 13-1488 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	35.34	13.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.92	
26 05 33 13-1489 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	48.29	17.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.23	

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26 05 33	13-1490	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.84 16.54	22.06
26 05 33	13-1491	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.93 21.51	28.68
26 05 33	13-1492	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.78 26.47	35.29
26 05 33	13-1493	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.53 33.09	44.11
26 05 33	13-1494	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.24 41.36	55.14
26 05 33 13-1495 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1442)					
26 05 33	13-1496	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.89 3.97	5.30
26 05 33	13-1497	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.42 4.63	6.18
26 05 33	13-1498	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.99 5.30	7.06
26 05 33	13-1499	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.18 5.96	7.94
26 05 33	13-1500	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.29 6.62	8.82
26 05 33	13-1501	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.17 7.61	10.15
26 05 33	13-1502	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.53 8.60	11.47
26 05 33	13-1503	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.97 9.92	13.23
26 05 33	13-1504	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.38 11.58	15.44
26 05 33	13-1505	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.20 13.23	17.65
26 05 33	13-1506	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.07 14.89	19.85
26 05 33	13-1507	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.30 16.54	22.06
26 05 33 13-1508 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1442)					
26 05 33	13-1509	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.44 5.09	
26 05 33	13-1510	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.10 6.10	
26 05 33	13-1511	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.51 6.77	
26 05 33	13-1512	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.39 7.55	
26 05 33	13-1513	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.96 8.27	11.03
26 05 33	13-1514	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.07 9.92	13.23
26 05 33	13-1515	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.74 13.23	17.65
26 05 33	13-1516	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.07 16.54	22.06
26 05 33	13-1517	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.95 21.51	28.68
26 05 33	13-1518	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.78 26.47	35.29
26 05 33	13-1519	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.55 33.09	44.11
26 05 33	13-1520	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.87 41.36	55.14
26 05 33 13-1521 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1442)					
26 05 33	13-1522	EA	1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.44 13.23	17.65
26 05 33	13-1523	EA	3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.16 14.89	19.85
26 05 33	13-1524	EA	1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.48 16.54	22.06
26 05 33	13-1525	EA	1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.08 19.85	26.47
26 05 33	13-1526	EA	1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.65 24.81	33.08
26 05 33	13-1527	EA	2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.97 29.78	39.70
26 05 33	13-1528	EA	2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	203.08 33.09	44.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1529 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	217.34	48.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.40	
26 05 33 13-1530 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover	237.08	55.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.36	
26 05 33 13-1531 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	265.60	63.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.97	
26 05 33 13-1532 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover <small>(26 05 33 13-1442)</small>		
26 05 33 13-1533 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	69.60	25.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.75	
26 05 33 13-1534 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	77.63	27.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-1535 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	84.09	30.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.50	
26 05 33 13-1536 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	103.90	35.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-1537 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	125.62	42.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.88	
26 05 33 13-1538 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover	133.30	50.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.50	
26 05 33 13-1539 Polyvinyl Chloride (PVC) Conduit Expansion Joint <small>(26 05 33 13-1442)</small>		
26 05 33 13-1540 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	100.68	22.06
26 05 33 13-1541 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	112.86	26.47
26 05 33 13-1542 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	125.72	30.88
26 05 33 13-1543 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	137.90	35.29
26 05 33 13-1544 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	149.81	39.70
26 05 33 13-1545 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	163.88	44.11
26 05 33 13-1546 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	199.30	50.73
26 05 33 13-1547 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	237.42	57.35
26 05 33 13-1548 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	277.54	66.17
26 05 33 13-1549 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	329.57	77.20
26 05 33 13-1550 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	432.06	92.64
26 05 33 13-1551 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	567.10	119.10
26 05 33 13-1552 Polyvinyl Chloride (PVC) Conduit End Caps <small>(26 05 33 13-1442)</small>		
26 05 33 13-1553 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap	13.42	4.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.31	
26 05 33 13-1554 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap	15.89	5.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.97	
26 05 33 13-1555 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	18.31	6.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 05 33 13-1556 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap	21.78	7.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.30	
26 05 33 13-1557 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	25.28	7.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.96	
26 05 33 13-1558 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap	29.65	8.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33 13-1559 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	41.46	10.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.61	
26 05 33 13-1560 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	45.55	11.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.60	
26 05 33 13-1561 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap	57.55	12.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.59	
26 05 33 13-1562 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap.....	69.00	13.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.26	
26 05 33 13-1563 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap	79.99	15.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.58	
26 05 33 13-1564 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap.....	100.53	17.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33 13-1565 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) <small>(26 05 33 13-1442)</small>		
26 05 33 13-1566 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	129.51	39.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.78	
26 05 33 13-1567 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)	127.25	26.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.85	
26 05 33 13-1568 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251).....	297.53	44.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.09	
26 05 33 13-1569 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)	567.33	63.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.97	
26 05 33 13-1570 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-0058)</small>		
<i>Note: Exposed installation. Excludes supporting strap, hanger and fastening.</i>		

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1571		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1570)</small>		
26 05 33 13-1572	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	7.20	1.81
26 05 33 13-1573	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	7.98	1.98
26 05 33 13-1574	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	8.98	2.29
26 05 33 13-1575	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	9.99	2.64
26 05 33 13-1576	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	11.36	3.08
26 05 33 13-1577	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	12.56	3.53
26 05 33 13-1578	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	14.96	4.19
26 05 33 13-1579	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	17.50	4.85
26 05 33 13-1580	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	20.37	5.74
26 05 33 13-1581	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	24.36	7.06
26 05 33 13-1582	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	33.20	9.93
26 05 33 13-1583	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit.....	43.57	13.23
26 05 33 13-1584		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
26 05 33 13-1585	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	71.62	8.82
		<i>For 24" Radius, Add</i>	4.82	
		<i>For 36" Radius, Add</i>	7.16	
		<i>For 48" Radius, Add</i>	9.50	
26 05 33 13-1586	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	79.75	9.71
		<i>For 24" Radius, Add</i>	5.37	
		<i>For 36" Radius, Add</i>	7.98	
		<i>For 48" Radius, Add</i>	10.58	
26 05 33 13-1587	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	83.62	11.03
		<i>For 24" Radius, Add</i>	5.58	
		<i>For 36" Radius, Add</i>	8.36	
		<i>For 48" Radius, Add</i>	11.14	
26 05 33 13-1588	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	91.89	14.11
		<i>For 24" Radius, Add</i>	6.01	
		<i>For 36" Radius, Add</i>	9.19	
		<i>For 48" Radius, Add</i>	12.37	
26 05 33 13-1589	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	101.27	17.65
		<i>For 24" Radius, Add</i>	6.49	
		<i>For 36" Radius, Add</i>	10.13	
		<i>For 48" Radius, Add</i>	13.76	
26 05 33 13-1590	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	120.18	22.06
		<i>For 24" Radius, Add</i>	7.64	
		<i>For 36" Radius, Add</i>	12.02	
		<i>For 48" Radius, Add</i>	16.40	
26 05 33 13-1591	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	144.02	26.47
		<i>For 24" Radius, Add</i>	9.15	
		<i>For 36" Radius, Add</i>	14.40	
		<i>For 48" Radius, Add</i>	19.66	
26 05 33 13-1592	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	170.62	30.88
		<i>For 24" Radius, Add</i>	10.87	
		<i>For 36" Radius, Add</i>	17.06	
		<i>For 48" Radius, Add</i>	23.26	
26 05 33 13-1593	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	198.84	37.50
		<i>For 24" Radius, Add</i>	12.57	
		<i>For 36" Radius, Add</i>	19.88	
		<i>For 48" Radius, Add</i>	27.20	
26 05 33 13-1594	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	227.07	44.11
		<i>For 24" Radius, Add</i>	14.27	
		<i>For 36" Radius, Add</i>	22.71	
		<i>For 48" Radius, Add</i>	31.14	
26 05 33 13-1595	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	283.82	55.14
		<i>For 24" Radius, Add</i>	17.84	
		<i>For 36" Radius, Add</i>	28.38	
		<i>For 48" Radius, Add</i>	38.92	
26 05 33 13-1596	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	347.90	66.17
		<i>For 24" Radius, Add</i>	21.96	
		<i>For 36" Radius, Add</i>	34.79	
		<i>For 48" Radius, Add</i>	47.62	
26 05 33 13-1597		Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
26 05 33 13-1598	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	62.70	8.82
		<i>For 24" Radius, Add</i>	4.15	
		<i>For 36" Radius, Add</i>	6.27	
		<i>For 48" Radius, Add</i>	8.39	
26 05 33 13-1599	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	69.76	9.71
		<i>For 24" Radius, Add</i>	4.63	
		<i>For 36" Radius, Add</i>	6.98	
		<i>For 48" Radius, Add</i>	9.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1600 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	73.53	11.03
<i>For 24" Radius, Add</i>	4.83	
<i>For 36" Radius, Add</i>	7.35	
<i>For 48" Radius, Add</i>	9.88	
26 05 33 13-1601 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	81.70	14.11
<i>For 24" Radius, Add</i>	5.25	
<i>For 36" Radius, Add</i>	8.17	
<i>For 48" Radius, Add</i>	11.09	
26 05 33 13-1602 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	90.98	17.65
<i>For 24" Radius, Add</i>	5.72	
<i>For 36" Radius, Add</i>	9.10	
<i>For 48" Radius, Add</i>	12.48	
26 05 33 13-1603 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	108.48	22.06
<i>For 24" Radius, Add</i>	6.76	
<i>For 36" Radius, Add</i>	10.85	
<i>For 48" Radius, Add</i>	14.94	
26 05 33 13-1604 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	130.01	26.47
<i>For 24" Radius, Add</i>	8.10	
<i>For 36" Radius, Add</i>	13.00	
<i>For 48" Radius, Add</i>	17.91	
26 05 33 13-1605 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	153.81	30.88
<i>For 24" Radius, Add</i>	9.61	
<i>For 36" Radius, Add</i>	15.38	
<i>For 48" Radius, Add</i>	21.16	
26 05 33 13-1606 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	179.92	37.50
<i>For 24" Radius, Add</i>	11.15	
<i>For 36" Radius, Add</i>	17.99	
<i>For 48" Radius, Add</i>	24.83	
26 05 33 13-1607 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	206.05	44.11
<i>For 24" Radius, Add</i>	12.70	
<i>For 36" Radius, Add</i>	20.61	
<i>For 48" Radius, Add</i>	28.51	
26 05 33 13-1608 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	257.55	55.14
<i>For 24" Radius, Add</i>	15.87	
<i>For 36" Radius, Add</i>	25.76	
<i>For 48" Radius, Add</i>	35.64	
26 05 33 13-1609 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	315.05	66.17
<i>For 24" Radius, Add</i>	19.49	
<i>For 36" Radius, Add</i>	31.51	
<i>For 48" Radius, Add</i>	43.52	
26 05 33 13-1610 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows		
<small>(26 05 33 13-1570)</small>		
26 05 33 13-1611 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	58.01	7.94
<i>For 24" Radius, Add</i>	3.85	
<i>For 36" Radius, Add</i>	5.80	
<i>For 48" Radius, Add</i>	7.75	
26 05 33 13-1612 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	64.57	8.73
<i>For 24" Radius, Add</i>	4.30	
<i>For 36" Radius, Add</i>	6.46	
<i>For 48" Radius, Add</i>	8.02	
26 05 33 13-1613 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	67.97	9.93
<i>For 24" Radius, Add</i>	4.48	
<i>For 36" Radius, Add</i>	6.80	
<i>For 48" Radius, Add</i>	9.12	
26 05 33 13-1614 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	75.34	12.70
<i>For 24" Radius, Add</i>	4.86	
<i>For 36" Radius, Add</i>	7.53	
<i>For 48" Radius, Add</i>	10.21	
26 05 33 13-1615 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	83.71	15.89
<i>For 24" Radius, Add</i>	5.29	
<i>For 36" Radius, Add</i>	8.37	
<i>For 48" Radius, Add</i>	11.46	
26 05 33 13-1616 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	99.71	19.85
<i>For 24" Radius, Add</i>	6.24	
<i>For 36" Radius, Add</i>	9.97	
<i>For 48" Radius, Add</i>	13.70	
26 05 33 13-1617 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	119.51	23.82
<i>For 24" Radius, Add</i>	7.47	
<i>For 36" Radius, Add</i>	11.95	
<i>For 48" Radius, Add</i>	16.43	
26 05 33 13-1618 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	141.42	27.80
<i>For 24" Radius, Add</i>	8.87	
<i>For 36" Radius, Add</i>	14.14	
<i>For 48" Radius, Add</i>	19.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1619 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	165.30	33.74
<i>For 24" Radius, Add</i>	10.29	
<i>For 36" Radius, Add</i>	16.53	
<i>For 48" Radius, Add</i>	22.77	
26 05 33 13-1620 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	189.18	39.70
<i>For 24" Radius, Add</i>	11.71	
<i>For 36" Radius, Add</i>	18.92	
<i>For 48" Radius, Add</i>	26.13	
26 05 33 13-1621 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	236.47	49.63
<i>For 24" Radius, Add</i>	14.63	
<i>For 36" Radius, Add</i>	23.65	
<i>For 48" Radius, Add</i>	32.66	
26 05 33 13-1622 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	289.38	59.56
<i>For 24" Radius, Add</i>	17.98	
<i>For 36" Radius, Add</i>	28.94	
<i>For 48" Radius, Add</i>	39.89	
26 05 33 13-1623 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1570)</small>		
26 05 33 13-1624 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	55.54	7.94
<i>For 24" Radius, Add</i>	3.67	
<i>For 36" Radius, Add</i>	5.55	
<i>For 48" Radius, Add</i>	7.44	
26 05 33 13-1625 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	61.79	8.73
<i>For 24" Radius, Add</i>	4.09	
<i>For 36" Radius, Add</i>	6.18	
<i>For 48" Radius, Add</i>	8.27	
26 05 33 13-1626 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	65.17	9.93
<i>For 24" Radius, Add</i>	4.27	
<i>For 36" Radius, Add</i>	6.52	
<i>For 48" Radius, Add</i>	8.77	
26 05 33 13-1627 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	72.51	12.70
<i>For 24" Radius, Add</i>	4.64	
<i>For 36" Radius, Add</i>	7.25	
<i>For 48" Radius, Add</i>	9.86	
26 05 33 13-1628 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	80.86	15.89
<i>For 24" Radius, Add</i>	5.07	
<i>For 36" Radius, Add</i>	8.09	
<i>For 48" Radius, Add</i>	11.10	
26 05 33 13-1629 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	96.46	19.85
<i>For 24" Radius, Add</i>	5.99	
<i>For 36" Radius, Add</i>	9.65	
<i>For 48" Radius, Add</i>	13.30	
26 05 33 13-1630 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	115.61	23.82
<i>For 24" Radius, Add</i>	7.18	
<i>For 36" Radius, Add</i>	11.56	
<i>For 48" Radius, Add</i>	15.94	
26 05 33 13-1631 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	136.74	27.80
<i>For 24" Radius, Add</i>	8.52	
<i>For 36" Radius, Add</i>	13.67	
<i>For 48" Radius, Add</i>	18.83	
26 05 33 13-1632 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	160.04	33.74
<i>For 24" Radius, Add</i>	9.89	
<i>For 36" Radius, Add</i>	16.00	
<i>For 48" Radius, Add</i>	22.11	
26 05 33 13-1633 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	183.34	39.70
<i>For 24" Radius, Add</i>	11.27	
<i>For 36" Radius, Add</i>	18.33	
<i>For 48" Radius, Add</i>	25.40	
26 05 33 13-1634 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	229.17	49.63
<i>For 24" Radius, Add</i>	14.09	
<i>For 36" Radius, Add</i>	22.92	
<i>For 48" Radius, Add</i>	31.75	
26 05 33 13-1635 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	280.26	59.56
<i>For 24" Radius, Add</i>	17.30	
<i>For 36" Radius, Add</i>	28.03	
<i>For 48" Radius, Add</i>	38.75	
26 05 33 13-1636 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-1570)</small>		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1637	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	35.96		6.18
26 05 33 13-1638	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	40.52		7.06
26 05 33 13-1639	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	42.95		7.94
26 05 33 13-1640	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	45.36		8.82
26 05 33 13-1641	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	51.33		11.03
26 05 33 13-1642	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	61.38		13.23
26 05 33 13-1643	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	78.17		17.65
26 05 33 13-1644	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	96.01		22.06
26 05 33 13-1645	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	117.67		28.68
26 05 33 13-1646	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	139.31		35.29
26 05 33 13-1647	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	174.15		44.11
26 05 33 13-1648	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	217.65		55.14
26 05 33 13-1649 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-1570)</small>					
26 05 33 13-1650	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	27.02		6.18
26 05 33 13-1651	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	30.51		7.06
26 05 33 13-1652	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	32.85		7.94
26 05 33 13-1653	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	35.20		8.82
26 05 33 13-1654	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	40.84		11.03
26 05 33 13-1655	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	46.43		13.23
26 05 33 13-1656	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	60.13		17.65
26 05 33 13-1657	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	74.37		22.06
26 05 33 13-1658	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	93.32		28.68
26 05 33 13-1659	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	112.26		35.29
26 05 33 13-1660	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	140.36		44.11
26 05 33 13-1661	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	175.41		55.14
26 05 33 13-1662 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-1570)</small>					
26 05 33 13-1663	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	29.83		5.07
26 05 33 13-1664	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	33.65		7.06
26 05 33 13-1665	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	36.02		7.94
26 05 33 13-1666	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	38.33		8.82
26 05 33 13-1667	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	44.21		11.03
26 05 33 13-1668	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	52.89		13.23
26 05 33 13-1669	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	67.87		17.65
26 05 33 13-1670	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	83.65		22.06
26 05 33 13-1671	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	103.76		28.68
26 05 33 13-1672	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	123.86		35.29
26 05 33 13-1673	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	154.82		44.11
26 05 33 13-1674	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	193.53		55.14
26 05 33 13-1675 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-1570)</small>					
26 05 33 13-1676	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	71.00		22.06
26 05 33 13-1677	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	83.76		26.47
26 05 33 13-1678	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	94.99		30.88
26 05 33 13-1679	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	106.13		35.29
26 05 33 13-1680	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	117.57		39.70
26 05 33 13-1681	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	132.09		44.11
26 05 33 13-1682	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	152.99		50.73
26 05 33 13-1683	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	174.76		57.35
26 05 33 13-1684	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	200.75		66.17
26 05 33 13-1685	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	232.24		77.20
26 05 33 13-1686	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	269.62		88.22
26 05 33 13-1687	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	309.45		99.26
26 05 33 13-1688 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-1570)</small>					
26 05 33 13-1689	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	77.44		22.06
26 05 33 13-1690	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	90.99		26.47
26 05 33 13-1691	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	102.25		30.88
26 05 33 13-1692	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	113.46		35.29
26 05 33 13-1693	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	124.97		39.70
26 05 33 13-1694	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	140.54		44.11
26 05 33 13-1695	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	163.13		50.73
26 05 33 13-1696	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	186.93		57.35
26 05 33 13-1697	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	214.44		66.17
26 05 33 13-1698	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	247.46		77.20
26 05 33 13-1699	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	288.69		88.22
26 05 33 13-1700	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	333.29		99.26
26 05 33 13-1701 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters <small>(26 05 33 13-1570)</small>					

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1702	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	68.47	6.18
26 05 33 13-1703	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	76.56	7.06
26 05 33 13-1704	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	80.57	7.94
26 05 33 13-1705	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	84.67	8.82
26 05 33 13-1706	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	91.16	11.03
26 05 33 13-1707	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	102.72	13.23
26 05 33 13-1708	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	127.69	17.65
26 05 33 13-1709	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	155.37	22.06
26 05 33 13-1710	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	184.46	28.68
26 05 33 13-1711	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	213.52	35.29
26 05 33 13-1712	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	266.97	44.11
26 05 33 13-1713	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter	332.48	55.14

26 05 33 13-1714 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1570)

26 05 33 13-1715	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	88.64	22.06
26 05 33 13-1716	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	103.40	26.47
26 05 33 13-1717	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	123.19	30.88
26 05 33 13-1718	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	150.23	35.29
26 05 33 13-1719	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	184.27	39.70
26 05 33 13-1720	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	236.28	44.11
26 05 33 13-1721	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	325.08	50.73
26 05 33 13-1722	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	389.20	57.35
26 05 33 13-1723	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	467.76	66.17
26 05 33 13-1724	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	551.84	77.20
26 05 33 13-1725	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	646.81	88.22
26 05 33 13-1726	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint	971.76	99.26

26 05 33 13-1727 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1570)

26 05 33 13-1728	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	73.77	17.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23	
26 05 33 13-1729	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	85.00	19.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.89	
26 05 33 13-1730	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	109.06	22.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.54	
26 05 33 13-1731	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	132.78	26.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.85	
26 05 33 13-1732	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	168.35	33.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.81	
26 05 33 13-1733	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	226.14	39.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.78	
26 05 33 13-1734	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	353.70	46.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.74	
26 05 33 13-1735	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	449.55	52.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.71	
26 05 33 13-1736	EA		3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	539.01	61.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.32	
26 05 33 13-1737	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	628.47	70.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.94	
26 05 33 13-1738	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	737.76	79.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.55	
26 05 33 13-1739	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	835.15	88.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.17	

26 05 33 13-1740 Explosion Proof Conduit Fittings (26 05 33 13-0058)

Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.

26 05 33 13-1741 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1740)

26 05 33 13-1742	EA		1/2" Explosion Proof Malleable Iron Conduit Union	46.25	10.42
26 05 33 13-1743	EA		3/4" Explosion Proof Malleable Iron Conduit Union	56.60	11.51
26 05 33 13-1744	EA		1" Explosion Proof Malleable Iron Conduit Union	88.88	15.34
26 05 33 13-1745	EA		1-1/4" Explosion Proof Malleable Iron Conduit Union	116.60	16.99
26 05 33 13-1746	EA		1-1/2" Explosion Proof Malleable Iron Conduit Union	146.54	20.83
26 05 33 13-1747	EA		2" Explosion Proof Malleable Iron Conduit Union	181.98	24.11
26 05 33 13-1748	EA		2-1/2" Explosion Proof Malleable Iron Conduit Union	276.26	34.48



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 33	13-1749	EA	3" Explosion Proof Malleable Iron Conduit Union	350.24	41.05
	26 05 33	13-1750	EA	3-1/2" Explosion Proof Malleable Iron Conduit Union	581.89	49.26
	26 05 33	13-1751	EA	4" Explosion Proof Malleable Iron Conduit Union	620.57	62.94
26 05 33 13-1752	Explosion Proof Malleable Iron Conduit Bodies <small>(26 05 33 13-1740)</small>					
	26 05 33	13-1753	EA	1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	162.54	32.88
	26 05 33	13-1754	EA	3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	183.27	37.27
	26 05 33	13-1755	EA	1" Explosion Proof Malleable Iron Two Hub Conduit Body	213.84	41.11
	26 05 33	13-1756	EA	1/2" Explosion Proof Malleable Iron Three Hub Conduit Body.....	184.61	41.11
	26 05 33	13-1757	EA	3/4" Explosion Proof Malleable Iron Three Hub Conduit Body.....	220.05	49.33
	26 05 33	13-1758	EA	1" Explosion Proof Malleable Iron Three Hub Conduit Body.....	259.83	56.45
26 05 33 13-1759	Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <small>(26 05 33 13-1740)</small>					
	<small>Note: Includes sealing gasket and lock nut.</small>					
	26 05 33	13-1760	EA	1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	134.49	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
	26 05 33	13-1761	EA	3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	138.24	30.69
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.02	
	26 05 33	13-1762	EA	1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	150.88	33.43
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.07	
	26 05 33	13-1763	EA	1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	193.37	41.11
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.83	
	26 05 33	13-1764	EA	1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	245.58	48.23
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.17	
	26 05 33	13-1765	EA	2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	313.48	54.81
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.11	
	26 05 33	13-1766	EA	2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	447.55	82.10
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.57	
	26 05 33	13-1767	EA	3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	565.42	102.89
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.17	
	26 05 33	13-1768	EA	3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical.....	789.00	113.29
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.97	
	26 05 33	13-1769	EA	4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	1,011.22	123.14
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.36	
26 05 33 13-1770	Explosion Proof Flexible Conduit Couplings <small>(26 05 33 13-1740)</small>					
	26 05 33	13-1771	EA	1/2" x 12" Explosion Proof Flexible Conduit Coupling.....	342.43	12.60
	26 05 33	13-1772	EA	3/4" x 15" Explosion Proof Flexible Conduit Coupling.....	447.37	14.25
26 05 33 13-1773	Conduit Installed Below Grade <small>(26 05 33 13-0057)</small>					
	<small>Note: By direct burial in trench or in concrete slabs or duct banks. Includes warning tape for underground conduits. Excludes trenching, backfilling and concrete.</small>					
26 05 33 13-1774	Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial <small>(26 05 33 13-1773)</small>					
26 05 33 13-1775	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <small>(26 05 33 13-1774)</small>					
	<small>Note: Includes field bend conduit up to 1".</small>					
	26 05 33	13-1776	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.30	
				<i>For Schedule 60, Add</i>	0.36	
				<i>For Schedule 80, Add</i>	0.61	
	26 05 33	13-1777	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	4.81	
				<i>For Schedule 60, Add</i>	0.43	
				<i>For Schedule 80, Add</i>	0.72	
	26 05 33	13-1778	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.56	
				<i>For Schedule 60, Add</i>	0.56	
				<i>For Schedule 80, Add</i>	0.91	
	26 05 33	13-1779	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.31	
				<i>For Schedule 60, Add</i>	0.70	
				<i>For Schedule 80, Add</i>	1.11	
	26 05 33	13-1780	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.96	
				<i>For Schedule 60, Add</i>	0.80	
				<i>For Schedule 80, Add</i>	1.26	
	26 05 33	13-1781	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.96	
				<i>For Schedule 60, Add</i>	1.00	
				<i>For Schedule 80, Add</i>	1.55	
	26 05 33	13-1782	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	10.02	
				<i>For Schedule 60, Add</i>	1.46	
				<i>For Schedule 80, Add</i>	2.20	
	26 05 33	13-1783	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	11.21	
				<i>For Schedule 60, Add</i>	1.70	
				<i>For Schedule 80, Add</i>	2.54	
	26 05 33	13-1784	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.07	
				<i>For Schedule 60, Add</i>	2.11	
				<i>For Schedule 80, Add</i>	3.13	
	26 05 33	13-1785	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	14.07	
				<i>For Schedule 60, Add</i>	2.30	
				<i>For Schedule 80, Add</i>	3.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1786 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	18.01	
For Schedule 60, Add	3.23	
For Schedule 80, Add	4.72	
26 05 33 13-1787 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial	22.03	
For Schedule 60, Add	4.18	
For Schedule 80, Add	6.06	
26 05 33 13-1788 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial <small>(26 05 33 13-1774)</small>		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1789 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	28.81	
For Schedule 60, Add	1.69	
For Schedule 80, Add	3.19	
26 05 33 13-1790 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	34.56	
For Schedule 60, Add	2.02	
For Schedule 80, Add	3.83	
26 05 33 13-1791 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	40.91	
For Schedule 60, Add	2.51	
For Schedule 80, Add	4.67	
26 05 33 13-1792 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	47.45	
For Schedule 60, Add	3.04	
For Schedule 80, Add	5.58	
26 05 33 13-1793 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	54.16	
For Schedule 60, Add	3.61	
For Schedule 80, Add	6.55	
26 05 33 13-1794 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	61.40	
For Schedule 60, Add	4.32	
For Schedule 80, Add	7.71	
26 05 33 13-1795 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	71.76	
For Schedule 60, Add	5.81	
For Schedule 80, Add	9.95	
26 05 33 13-1796 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	84.33	
For Schedule 60, Add	7.85	
For Schedule 80, Add	12.97	
26 05 33 13-1797 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	102.46	
For Schedule 60, Add	10.18	
For Schedule 80, Add	16.56	
26 05 33 13-1798 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	120.72	
For Schedule 60, Add	12.54	
For Schedule 80, Add	20.20	
26 05 33 13-1799 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	156.49	
For Schedule 60, Add	19.27	
For Schedule 80, Add	29.96	
26 05 33 13-1800 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	183.26	
For Schedule 60, Add	23.76	
For Schedule 80, Add	36.57	
26 05 33 13-1801 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial <small>(26 05 33 13-1774)</small>		
See CSI section 26 05 33 13-2234 for conduit field bending.		
26 05 33 13-1802 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	28.81	
For Schedule 60, Add	1.69	
For Schedule 80, Add	3.19	
26 05 33 13-1803 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	34.47	
For Schedule 60, Add	2.00	
For Schedule 80, Add	3.79	
26 05 33 13-1804 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	40.79	
For Schedule 60, Add	2.48	
For Schedule 80, Add	4.63	
26 05 33 13-1805 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	47.09	
For Schedule 60, Add	2.95	
For Schedule 80, Add	5.45	
26 05 33 13-1806 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	53.35	
For Schedule 60, Add	3.41	
For Schedule 80, Add	6.27	
26 05 33 13-1807 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	60.96	
For Schedule 60, Add	4.21	
For Schedule 80, Add	7.55	
26 05 33 13-1808 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	70.94	
For Schedule 60, Add	5.60	
For Schedule 80, Add	9.66	
26 05 33 13-1809 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	83.30	
For Schedule 60, Add	7.59	
For Schedule 80, Add	12.61	
26 05 33 13-1810 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	99.58	
For Schedule 60, Add	9.46	
For Schedule 80, Add	15.55	
26 05 33 13-1811 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	118.25	
For Schedule 60, Add	11.92	
For Schedule 80, Add	19.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1812 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	153.29 18.47 28.84	
26 05 33 13-1813 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	173.71 21.37 33.23	
26 05 33 13-1814 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1815 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.01 4.63	
26 05 33 13-1816 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.42 5.30	
26 05 33 13-1817 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.91 5.96	
26 05 33 13-1818 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.52 6.62	
26 05 33 13-1819 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.85 7.28	
26 05 33 13-1820 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.73 7.94	
26 05 33 13-1821 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.96 8.93	
26 05 33 13-1822 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.78 9.92	
26 05 33 13-1823 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.84 11.58	
26 05 33 13-1824 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.67 13.23	
26 05 33 13-1825 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.87 14.89	
26 05 33 13-1826 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.53 16.54	
26 05 33 13-1827 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1828 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	17.89	
26 05 33 13-1829 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	20.42	
26 05 33 13-1830 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	22.99	
26 05 33 13-1831 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	29.39	
26 05 33 13-1832 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	32.49	
26 05 33 13-1833 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	36.17	
26 05 33 13-1834 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	40.53	
26 05 33 13-1835 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	45.97	
26 05 33 13-1836 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	54.38	
26 05 33 13-1837 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	60.20	
26 05 33 13-1838 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	75.07	
26 05 33 13-1839 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	84.30	
26 05 33 13-1840 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial <small>(26 05 33 13-1774)</small>		
26 05 33 13-1841 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	15.91	
26 05 33 13-1842 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	18.42	
26 05 33 13-1843 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	20.78	
26 05 33 13-1844 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	23.30	
26 05 33 13-1845 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	25.65	
26 05 33 13-1846 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	28.46	
26 05 33 13-1847 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	33.41	
26 05 33 13-1848 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	38.01	
26 05 33 13-1849 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	44.86	
26 05 33 13-1850 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	50.67	
26 05 33 13-1851 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	62.89	
26 05 33 13-1852 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	71.16	
26 05 33 13-1853 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1773)</small> Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		
26 05 33 13-1854 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <small>(26 05 33 13-1853)</small> Note: Includes field bending for conduit up to 1".		
26 05 33 13-1855 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	12.51 -0.45 -0.77 -1.08	2.63
26 05 33 13-1856 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i>	14.03 -0.51 -0.86 -1.22	3.25

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1857	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	17.20	3.63
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500 To 1,000, Deduct</i>	-1.07	
			<i>For >1,000, Deduct</i>	-1.50	
26 05 33 13-1858	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	20.71	4.87
			<i>For >250 To 500, Deduct</i>	-0.79	
			<i>For >500 To 1,000, Deduct</i>	-1.30	
			<i>For >1,000, Deduct</i>	-1.82	
26 05 33 13-1859	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	24.29	5.50
			<i>For >250 To 500, Deduct</i>	-0.93	
			<i>For >500 To 1,000, Deduct</i>	-1.54	
			<i>For >1,000, Deduct</i>	-2.15	
26 05 33 13-1860	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	30.73	6.00
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500 To 1,000, Deduct</i>	-1.96	
			<i>For >1,000, Deduct</i>	-2.73	
26 05 33 13-1861	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	44.49	9.00
			<i>For >250 To 500, Deduct</i>	-1.76	
			<i>For >500 To 1,000, Deduct</i>	-2.87	
			<i>For >1,000, Deduct</i>	-3.98	
26 05 33 13-1862	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	57.47	11.26
			<i>For >250 To 500, Deduct</i>	-2.25	
			<i>For >500 To 1,000, Deduct</i>	-3.69	
			<i>For >1,000, Deduct</i>	-5.12	
26 05 33 13-1863	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	70.96	11.88
			<i>For >250 To 500, Deduct</i>	-2.77	
			<i>For >500 To 1,000, Deduct</i>	-4.54	
			<i>For >1,000, Deduct</i>	-6.31	
26 05 33 13-1864	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	84.31	13.13
			<i>For >250 To 500, Deduct</i>	-3.28	
			<i>For >500 To 1,000, Deduct</i>	-5.39	
			<i>For >1,000, Deduct</i>	-7.49	
26 05 33 13-1865	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	130.46	18.13
			<i>For >250 To 500, Deduct</i>	-5.34	
			<i>For >500 To 1,000, Deduct</i>	-8.60	
			<i>For >1,000, Deduct</i>	-11.86	
26 05 33 13-1866	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	173.68	23.75
			<i>For >250 To 500, Deduct</i>	-7.18	
			<i>For >500 To 1,000, Deduct</i>	-11.53	
			<i>For >1,000, Deduct</i>	-15.87	

26 05 33 13-1867 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1853)

26 05 33 13-1868	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.45	3.75
26 05 33 13-1869	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.24	5.00
26 05 33 13-1870	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.60	6.25
26 05 33 13-1871	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	23.19	6.88
26 05 33 13-1872	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	27.48	8.13
26 05 33 13-1873	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	35.17	9.38
26 05 33 13-1874	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	63.14	11.26
26 05 33 13-1875	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	80.62	15.63
26 05 33 13-1876	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	99.58	18.13
26 05 33 13-1877	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	124.05	25.01
26 05 33 13-1878	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	310.03	34.38
26 05 33 13-1879	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	308.27	19.37

26 05 33 13-1880 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1853)

Note: 90, 45, or 30 degree.

26 05 33 13-1881	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	52.10	15.63
26 05 33 13-1882	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	60.41	19.37
26 05 33 13-1883	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	72.33	23.75
26 05 33 13-1884	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	85.51	27.50
26 05 33 13-1885	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	100.00	31.25
26 05 33 13-1886	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	121.07	34.38
26 05 33 13-1887	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	184.84	43.13
26 05 33 13-1888	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	275.03	58.76
26 05 33 13-1889	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	339.21	66.26
26 05 33 13-1890	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	391.01	86.26
26 05 33 13-1891	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	807.80	140.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1892 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,268.89	211.28
26 05 33 13-1893 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1894 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	121.48	23.75
26 05 33 13-1895 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	136.82	27.50
26 05 33 13-1896 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	156.18	31.25
26 05 33 13-1897 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	185.89	34.38
26 05 33 13-1898 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	258.20	43.13
26 05 33 13-1899 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1900 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	134.77	23.75
26 05 33 13-1901 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	158.78	27.50
26 05 33 13-1902 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	171.92	31.25
26 05 33 13-1903 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	220.23	34.38
26 05 33 13-1904 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	291.31	43.13
26 05 33 13-1905 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	373.22	58.76
26 05 33 13-1906 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1907 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	150.66	23.75
26 05 33 13-1908 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	170.22	27.50
26 05 33 13-1909 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	192.12	31.25
26 05 33 13-1910 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	231.62	34.38
26 05 33 13-1911 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	329.36	43.13
26 05 33 13-1912 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	417.89	58.76
26 05 33 13-1913 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	526.28	66.26
26 05 33 13-1914 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	594.81	86.26
26 05 33 13-1915 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1916 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	178.11	23.75
26 05 33 13-1917 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	197.06	27.50
26 05 33 13-1918 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	222.61	31.25
26 05 33 13-1919 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	275.51	34.38
26 05 33 13-1920 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	397.45	43.13
26 05 33 13-1921 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	493.57	58.76
26 05 33 13-1922 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	572.48	66.26
26 05 33 13-1923 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	679.64	86.26
26 05 33 13-1924 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1925 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	199.47	23.75
26 05 33 13-1926 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	222.06	27.50

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1927 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	252.61	31.25
26 05 33 13-1928 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	313.72	34.38
26 05 33 13-1929 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	434.60	43.13
26 05 33 13-1930 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	554.10	58.76
26 05 33 13-1931 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	684.83	66.26
26 05 33 13-1932 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	757.51	86.26
26 05 33 13-1933 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,262.41	140.65
26 05 33 13-1934 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1935 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	227.40	23.75
26 05 33 13-1936 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	252.25	27.50
26 05 33 13-1937 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	285.50	31.25
26 05 33 13-1938 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	356.10	34.38
26 05 33 13-1939 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	496.51	43.13
26 05 33 13-1940 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	631.23	58.76
26 05 33 13-1941 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	741.13	66.26
26 05 33 13-1942 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	858.04	86.26
26 05 33 13-1943 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,332.86	140.65
26 05 33 13-1944 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,825.58	211.28
26 05 33 13-1945 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1946 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	266.29	23.75
26 05 33 13-1947 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	279.17	27.50
26 05 33 13-1948 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	329.52	31.25
26 05 33 13-1949 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	415.10	34.38
26 05 33 13-1950 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	579.99	43.13
26 05 33 13-1951 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	735.20	58.76
26 05 33 13-1952 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	897.64	66.26
26 05 33 13-1953 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,053.60	86.26
26 05 33 13-1954 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,562.67	140.65
26 05 33 13-1955 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,931.07	211.28
26 05 33 13-1956 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1853)</small>		
26 05 33 13-1957 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	275.65	23.75
26 05 33 13-1958 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	324.70	27.50
26 05 33 13-1959 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	367.58	31.25
26 05 33 13-1960 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	432.84	34.38
26 05 33 13-1961 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	600.84	43.13
26 05 33 13-1962 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	767.17	58.76
26 05 33 13-1963 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	982.88	66.26
26 05 33 13-1964 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,097.95	86.26



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1965	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,624.40	140.65
26 05 33 13-1966	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,984.67	211.28
26 05 33 13-1967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-1853)</small>				
26 05 33 13-1968	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	93.40	15.63
26 05 33 13-1969	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	102.04	19.37
26 05 33 13-1970	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	132.34	23.75
26 05 33 13-1971	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	191.53	27.50
26 05 33 13-1972	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	227.18	31.25
26 05 33 13-1973	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	288.20	34.38
26 05 33 13-1974	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	383.36	43.13
26 05 33 13-1975	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	495.86	43.13
26 05 33 13-1976	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	640.60	66.26
26 05 33 13-1977	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	824.90	86.26
26 05 33 13-1978	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,500.66	140.65
26 05 33 13-1979	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,874.82	211.28
26 05 33 13-1980 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-1853)</small>				
26 05 33 13-1981	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	95.49	15.63
26 05 33 13-1982	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	110.03	19.37
26 05 33 13-1983	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	136.60	23.75
26 05 33 13-1984	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	199.35	27.50
26 05 33 13-1985	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	238.04	31.25
26 05 33 13-1986	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	311.65	34.38
26 05 33 13-1987	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	433.54	43.13
26 05 33 13-1988	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	546.88	43.13
26 05 33 13-1989	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	732.85	66.26
26 05 33 13-1990	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	916.81	86.26
26 05 33 13-1991	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,669.14	140.65
26 05 33 13-1992	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,146.86	211.28
26 05 33 13-1993 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial <small>(26 05 33 13-1853)</small>				
26 05 33 13-1994	EA	1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	32.63	7.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.50</i>	
26 05 33 13-1995	EA	3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.71	9.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>5.63</i>	
26 05 33 13-1996	EA	1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	42.70	11.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>7.13</i>	
26 05 33 13-1997	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.81	13.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>8.25</i>	
26 05 33 13-1998	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.32	15.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>9.38</i>	
26 05 33 13-1999	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	36.15	8.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4.88</i>	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2000	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.12	9.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2001	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.13	11.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2002	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.38	13.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2003	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.10	15.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2004	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.06	17.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2005	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.31	8.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2006	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.29	9.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2007	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.44	11.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2008	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.72	13.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2009	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.43	15.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2010	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.92	17.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2011	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.59	8.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2012	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.58	9.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2013	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.90	11.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2014	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.12	13.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2015	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.98	15.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2016	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.62	17.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2017	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	92.69	21.25
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2018	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	120.15	29.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2019	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	38.76	8.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2020	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.89	9.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2021	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.24	11.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2022	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.51	13.75
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2023	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.52	15.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2024	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.31	17.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2025	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.07	21.25
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2026	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.28	29.38
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2027	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	149.22	33.12
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2028 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.03	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2029 EA 1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.08	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2030 EA 3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.23	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2031 EA 1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.60	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2032 EA 1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.16	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2033 EA 1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.19	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2034 EA 2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.78	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2035 EA 2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	104.56	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2036 EA 3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	132.96	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2037 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.86	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-2038 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	179.41	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2039 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	263.66	59.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-2040 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.68	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2041 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.83	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2042 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.25	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2043 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.37	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2044 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.64	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	
26 05 33 13-2045 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.25	17.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2046 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	114.19	21.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.75	
26 05 33 13-2047 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	143.17	29.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.63	
26 05 33 13-2048 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.06	33.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.88	
26 05 33 13-2049 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	194.92	43.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.88	
26 05 33 13-2050 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	286.85	59.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.63	
26 05 33 13-2051 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.62	8.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2052 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.74	9.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2053 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.69	11.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2054 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.68	13.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.25	
26 05 33 13-2055 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.57	15.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2056 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.42 10.50	17.50
26 05 33 13-2057 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.04 12.75	21.25
26 05 33 13-2058 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.13 17.63	29.38
26 05 33 13-2059 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.08 19.88	33.12
26 05 33 13-2060 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.20 25.88	43.13
26 05 33 13-2061 EA 5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	302.74 35.63	59.38
26 05 33 13-2062 EA 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.60 4.88	8.13
26 05 33 13-2063 EA 3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.71 5.63	9.38
26 05 33 13-2064 EA 1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.11 7.13	11.88
26 05 33 13-2065 EA 1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.02 8.25	13.75
26 05 33 13-2066 EA 1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.56 9.38	15.63
26 05 33 13-2067 EA 2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.97 10.50	17.50
26 05 33 13-2068 EA 2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.56 12.75	21.25
26 05 33 13-2069 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.03 17.63	29.38
26 05 33 13-2070 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	207.25 19.88	33.12
26 05 33 13-2071 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	258.94 25.88	43.13
26 05 33 13-2072 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	334.46 35.63	59.38
26 05 33 13-2073 EA 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.62 4.88	8.13
26 05 33 13-2074 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.84 5.63	9.38
26 05 33 13-2075 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.73 7.13	11.88
26 05 33 13-2076 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.14 8.25	13.75
26 05 33 13-2077 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.01 9.38	15.63
26 05 33 13-2078 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.45 10.50	17.50
26 05 33 13-2079 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.27 12.75	21.25
26 05 33 13-2080 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	201.85 17.63	29.38
26 05 33 13-2081 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.09 19.88	33.12
26 05 33 13-2082 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	271.44 25.88	43.13
26 05 33 13-2083 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	338.98 35.63	59.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-1773)</small> Note: Direct burial or encased application.		
26 05 33 13-2085 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit <small>(26 05 33 13-2084)</small>		
26 05 33 13-2086 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.27	1.43
<i>For Work In Restricted Working Space, Add</i>	1.08	
26 05 33 13-2087 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	6.88	1.54
<i>For Work In Restricted Working Space, Add</i>	1.16	
26 05 33 13-2088 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	7.33	1.65
<i>For Work In Restricted Working Space, Add</i>	1.24	
26 05 33 13-2089 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	7.78	1.76
<i>For Work In Restricted Working Space, Add</i>	1.32	
26 05 33 13-2090 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	8.33	1.87
<i>For Work In Restricted Working Space, Add</i>	1.41	
26 05 33 13-2091 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	8.70	1.98
<i>For Work In Restricted Working Space, Add</i>	1.49	
26 05 33 13-2092 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	9.72	2.09
<i>For Work In Restricted Working Space, Add</i>	1.57	
26 05 33 13-2093 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	10.89	2.20
<i>For Work In Restricted Working Space, Add</i>	1.66	
26 05 33 13-2094 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	11.83	2.31
<i>For Work In Restricted Working Space, Add</i>	1.74	
26 05 33 13-2095 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	12.78	2.42
<i>For Work In Restricted Working Space, Add</i>	1.82	
26 05 33 13-2096 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	14.73	2.53
<i>For Work In Restricted Working Space, Add</i>	1.90	
26 05 33 13-2097 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	17.11	2.64
<i>For Work In Restricted Working Space, Add</i>	1.99	
26 05 33 13-2098 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-2084)</small>		
26 05 33 13-2099 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	77.13	11.03
<i>For Work In Restricted Working Space, Add</i>	8.27	
<i>For 24" Radius, Add</i>	5.10	
<i>For 36" Radius, Add</i>	7.71	
<i>For 48" Radius, Add</i>	10.33	
26 05 33 13-2100 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	88.57	13.23
<i>For Work In Restricted Working Space, Add</i>	9.92	
<i>For 24" Radius, Add</i>	5.82	
<i>For 36" Radius, Add</i>	8.86	
<i>For 48" Radius, Add</i>	11.90	
26 05 33 13-2101 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	94.65	15.44
<i>For Work In Restricted Working Space, Add</i>	11.58	
<i>For 24" Radius, Add</i>	6.13	
<i>For 36" Radius, Add</i>	9.47	
<i>For 48" Radius, Add</i>	12.80	
26 05 33 13-2102 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	100.71	17.65
<i>For Work In Restricted Working Space, Add</i>	13.23	
<i>For 24" Radius, Add</i>	6.45	
<i>For 36" Radius, Add</i>	10.07	
<i>For 48" Radius, Add</i>	13.69	
26 05 33 13-2103 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	106.79	19.85
<i>For Work In Restricted Working Space, Add</i>	14.89	
<i>For 24" Radius, Add</i>	6.77	
<i>For 36" Radius, Add</i>	10.68	
<i>For 48" Radius, Add</i>	14.59	
26 05 33 13-2104 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	120.18	22.06
<i>For Work In Restricted Working Space, Add</i>	16.54	
<i>For 24" Radius, Add</i>	7.64	
<i>For 36" Radius, Add</i>	12.02	
<i>For 48" Radius, Add</i>	16.40	
26 05 33 13-2105 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	138.51	24.26
<i>For Work In Restricted Working Space, Add</i>	18.20	
<i>For 24" Radius, Add</i>	8.87	
<i>For 36" Radius, Add</i>	13.85	
<i>For 48" Radius, Add</i>	18.83	
26 05 33 13-2106 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	159.59	26.47
<i>For Work In Restricted Working Space, Add</i>	19.85	
<i>For 24" Radius, Add</i>	10.32	
<i>For 36" Radius, Add</i>	15.96	
<i>For 48" Radius, Add</i>	21.60	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2107	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	182.30	30.88
			<i>For Work In Restricted Working Space, Add</i>	23.16	
			<i>For 24" Radius, Add</i>	11.74	
			<i>For 36" Radius, Add</i>	18.23	
			<i>For 48" Radius, Add</i>	24.72	
26 05 33	13-2108	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	205.00	39.70
			<i>For Work In Restricted Working Space, Add</i>	26.47	
			<i>For 24" Radius, Add</i>	13.17	
			<i>For 36" Radius, Add</i>	20.50	
			<i>For 48" Radius, Add</i>	27.83	
26 05 33	13-2109	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	245.23	39.70
			<i>For Work In Restricted Working Space, Add</i>	29.78	
			<i>For 24" Radius, Add</i>	15.91	
			<i>For 36" Radius, Add</i>	24.52	
			<i>For 48" Radius, Add</i>	33.14	
26 05 33	13-2110	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	292.76	44.11
			<i>For Work In Restricted Working Space, Add</i>	33.09	
			<i>For 24" Radius, Add</i>	19.20	
			<i>For 36" Radius, Add</i>	29.28	
			<i>For 48" Radius, Add</i>	39.35	
26 05 33 13-2111 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings <small>(26 05 33 13-2084)</small>					
26 05 33	13-2112	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	35.96	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33	13-2113	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	40.52	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
26 05 33	13-2114	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	42.95	7.94
			<i>For Work In Restricted Working Space, Add</i>	5.96	
26 05 33	13-2115	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	45.36	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33	13-2116	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	48.02	9.71
			<i>For Work In Restricted Working Space, Add</i>	7.28	
26 05 33	13-2117	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	54.77	10.59
			<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33	13-2118	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	63.84	11.91
			<i>For Work In Restricted Working Space, Add</i>	8.93	
26 05 33	13-2119	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	73.95	13.23
			<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33	13-2120	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	84.58	15.44
			<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33	13-2121	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	95.20	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33	13-2122	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	113.49	19.85
			<i>For Work In Restricted Working Space, Add</i>	14.89	
26 05 33	13-2123	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	134.94	22.06
			<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2124 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings <small>(26 05 33 13-2084)</small>					
26 05 33	13-2125	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	27.02	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33	13-2126	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	30.51	7.06
			<i>For Work In Restricted Working Space, Add</i>	5.30	
26 05 33	13-2127	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	32.85	7.94
			<i>For Work In Restricted Working Space, Add</i>	5.96	
26 05 33	13-2128	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	35.20	8.82
			<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33	13-2129	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	37.53	9.71
			<i>For Work In Restricted Working Space, Add</i>	7.28	
26 05 33	13-2130	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	39.82	10.59
			<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33	13-2131	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	45.80	11.91
			<i>For Work In Restricted Working Space, Add</i>	8.93	
26 05 33	13-2132	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	52.31	13.23
			<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33	13-2133	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	60.23	15.44
			<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33	13-2134	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	68.15	17.65
			<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33	13-2135	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	79.70	19.85
			<i>For Work In Restricted Working Space, Add</i>	14.89	
26 05 33	13-2136	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	92.70	22.06
			<i>For Work In Restricted Working Space, Add</i>	16.54	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2137 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings <small>(26 05 33 13-2084)</small>				
26 05 33 13-2138	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	23.21 2.65	3.53
26 05 33 13-2139	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	25.93 2.98	3.97
26 05 33 13-2140	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	27.20 3.31	4.41
26 05 33 13-2141	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	28.40 3.64	4.85
26 05 33 13-2142	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	29.87 3.97	5.30
26 05 33 13-2143	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	35.25 4.63	6.18
26 05 33 13-2144	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	42.51 5.63	7.50
26 05 33 13-2145	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	50.57 6.62	8.82
26 05 33 13-2146	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	59.64 8.27	11.03
26 05 33 13-2147	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	68.72 9.92	13.23
26 05 33 13-2148	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	83.13 11.58	15.44
26 05 33 13-2149	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	99.79 13.23	17.65
26 05 33 13-2150 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints <small>(26 05 33 13-2084)</small>				
26 05 33 13-2151	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	71.00 16.54	22.06
26 05 33 13-2152	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	83.76 19.85	26.47
26 05 33 13-2153	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	94.99 23.16	30.88
26 05 33 13-2154	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	106.13 26.47	35.29
26 05 33 13-2155	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	112.05 28.12	37.50
26 05 33 13-2156	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	121.06 29.78	39.70
26 05 33 13-2157	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	130.93 31.43	41.91
26 05 33 13-2158	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	141.68 33.09	44.11
26 05 33 13-2159	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	151.12 34.74	46.32
26 05 33 13-2160	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	160.56 36.40	48.53
26 05 33 13-2161	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	175.88 38.05	50.73
26 05 33 13-2162	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	193.66 39.71	52.94
26 05 33 13-2163 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints <small>(26 05 33 13-2084)</small>				
26 05 33 13-2164	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	77.44 16.54	22.06
26 05 33 13-2165	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	90.99 19.85	26.47
26 05 33 13-2166	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	102.25 23.16	30.88
26 05 33 13-2167	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	113.46 26.47	35.29
26 05 33 13-2168	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	119.45 28.12	37.50
26 05 33 13-2169	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	129.51 29.78	39.70
26 05 33 13-2170	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	141.07 31.43	41.91
26 05 33 13-2171	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	153.85 33.09	44.11
26 05 33 13-2172	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	164.81 34.74	46.32
26 05 33 13-2173	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	175.78 36.40	48.53
26 05 33 13-2174	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial..... <i>For Work In Restricted Working Space, Add</i>	194.95 38.05	50.73

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2175 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial.....	217.50	52.94
<i>For Work In Restricted Working Space, Add</i>	39.71	
26 05 33 13-2176 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters		
<small>(26 05 33 13-2084)</small>		
26 05 33 13-2177 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	68.47	6.18
<i>For Work In Restricted Working Space, Add</i>	4.63	
26 05 33 13-2178 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	76.56	7.06
<i>For Work In Restricted Working Space, Add</i>	5.30	
26 05 33 13-2179 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	80.57	7.94
<i>For Work In Restricted Working Space, Add</i>	5.96	
26 05 33 13-2180 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	84.67	8.82
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2181 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	87.85	9.71
<i>For Work In Restricted Working Space, Add</i>	7.28	
26 05 33 13-2182 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	96.11	10.59
<i>For Work In Restricted Working Space, Add</i>	7.94	
26 05 33 13-2183 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	113.36	11.91
<i>For Work In Restricted Working Space, Add</i>	8.93	
26 05 33 13-2184 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	133.31	13.23
<i>For Work In Restricted Working Space, Add</i>	9.92	
26 05 33 13-2185 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	151.37	15.44
<i>For Work In Restricted Working Space, Add</i>	11.58	
26 05 33 13-2186 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	169.41	17.65
<i>For Work In Restricted Working Space, Add</i>	13.23	
26 05 33 13-2187 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	206.31	19.85
<i>For Work In Restricted Working Space, Add</i>	14.89	
26 05 33 13-2188 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	249.77	22.06
<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2189 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints		
<small>(26 05 33 13-2084)</small>		
26 05 33 13-2190 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	88.64	22.06
<i>For Work In Restricted Working Space, Add</i>	16.54	
26 05 33 13-2191 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	103.40	26.47
<i>For Work In Restricted Working Space, Add</i>	19.85	
26 05 33 13-2192 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	123.19	30.88
<i>For Work In Restricted Working Space, Add</i>	23.16	
26 05 33 13-2193 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	150.23	35.29
<i>For Work In Restricted Working Space, Add</i>	26.47	
26 05 33 13-2194 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	178.75	37.50
<i>For Work In Restricted Working Space, Add</i>	28.12	
26 05 33 13-2195 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	225.25	39.70
<i>For Work In Restricted Working Space, Add</i>	29.78	
26 05 33 13-2196 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	303.02	41.91
<i>For Work In Restricted Working Space, Add</i>	31.43	
26 05 33 13-2197 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	356.12	44.11
<i>For Work In Restricted Working Space, Add</i>	33.09	
26 05 33 13-2198 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	418.13	46.32
<i>For Work In Restricted Working Space, Add</i>	34.74	
26 05 33 13-2199 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	480.16	48.53
<i>For Work In Restricted Working Space, Add</i>	36.40	
26 05 33 13-2200 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	553.07	50.73
<i>For Work In Restricted Working Space, Add</i>	38.05	
26 05 33 13-2201 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	855.97	52.94
<i>For Work In Restricted Working Space, Add</i>	39.71	
26 05 33 13-2202 Spacers		
<small>(26 05 33 13-1773)</small>		
Note: For concrete encasement applications. See CSI section 26 05 33 13-1773 for conduit.		
26 05 33 13-2203 EA 1" Base Spacers, Average 4" Wide, Direct Burial	11.61	
26 05 33 13-2204 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	12.48	
26 05 33 13-2205 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	13.82	
26 05 33 13-2206 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	14.88	
26 05 33 13-2207 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	13.94	
26 05 33 13-2208 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	14.96	
26 05 33 13-2209 EA 2" Base Spacer, Average 4" Wide, Direct Burial	17.32	
26 05 33 13-2210 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.07	
26 05 33 13-2211 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	19.14	
26 05 33 13-2212 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	18.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2213 EA 3" Base Spacer, Average 4" Wide, Direct Burial.....	21.90	
26 05 33 13-2214 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial.....	20.91	
26 05 33 13-2215 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	23.74	
26 05 33 13-2216 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	22.69	
26 05 33 13-2217 EA 4" Base Spacer, Average 4" Wide, Direct Burial.....	24.45	
26 05 33 13-2218 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	23.33	
26 05 33 13-2219 EA 5" Base Spacer, Average 4" Wide, Direct Burial.....	27.04	
26 05 33 13-2220 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial.....	25.71	
26 05 33 13-2221 EA 6" Base Spacer, Average 4" Wide, Direct Burial.....	30.46	
26 05 33 13-2222 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial.....	29.35	
26 05 33 13-2223 Conduit Field Bending (26 05 33 13-0057)		
26 05 33 13-2224 Metallic Conduit Field Bending (26 05 33 13-2223)		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2225 EA 1-1/4" Metallic Conduit Field Bending.....	21.01	
26 05 33 13-2226 EA 1-1/2" Metallic Conduit Field Bending.....	28.01	
26 05 33 13-2227 EA 2" Metallic Conduit Field Bending.....	35.01	
26 05 33 13-2228 EA 2-1/2" Metallic Conduit Field Bending.....	49.02	
26 05 33 13-2229 EA 3" Metallic Conduit Field Bending.....	63.03	
26 05 33 13-2230 EA 3-1/2" Metallic Conduit Field Bending.....	77.04	
26 05 33 13-2231 EA 4" Metallic Conduit Field Bending.....	91.04	
26 05 33 13-2232 EA 5" Metallic Conduit Field Bending.....	112.05	
26 05 33 13-2233 EA 6" Metallic Conduit Field Bending.....	133.06	
26 05 33 13-2234 Plastic Conduit Field Bending (26 05 33 13-2223)		
Note: For PVC conduits.		
26 05 33 13-2235 EA 1" Plastic Conduit Field Bending.....	32.22	
26 05 33 13-2236 EA 1-1/4" Plastic Conduit Field Bending.....	35.01	
26 05 33 13-2237 EA 1-1/2" Plastic Conduit Field Bending.....	42.02	
26 05 33 13-2238 EA 2" Plastic Conduit Field Bending.....	56.03	
26 05 33 13-2239 EA 2-1/2" Plastic Conduit Field Bending.....	70.04	
26 05 33 13-2240 EA 3" Plastic Conduit Field Bending.....	84.04	
26 05 33 13-2241 EA 3-1/2" Plastic Conduit Field Bending.....	98.05	
26 05 33 13-2242 EA 4" Plastic Conduit Field Bending.....	112.05	
26 05 33 13-2243 EA 5" Plastic Conduit Field Bending.....	126.06	
26 05 33 13-2244 EA 6" Plastic Conduit Field Bending.....	140.06	
26 05 33 13-2245 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057)		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2246 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit.....	41.11	
For Work In Restricted Working Space, Add	12.33	
26 05 33 13-2247 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit.....	45.21	
For Work In Restricted Working Space, Add	13.56	
26 05 33 13-2248 EA 1", Cut And Thread Existing In-Place Threaded Conduit.....	49.33	
For Work In Restricted Working Space, Add	14.80	
26 05 33 13-2249 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	53.44	
For Work In Restricted Working Space, Add	16.03	
26 05 33 13-2250 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	56.18	
For Work In Restricted Working Space, Add	16.85	
26 05 33 13-2251 EA 2", Cut And Thread Existing In-Place Threaded Conduit.....	58.92	
For Work In Restricted Working Space, Add	17.68	
26 05 33 13-2252 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	61.66	
For Work In Restricted Working Space, Add	18.50	
26 05 33 13-2253 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	64.40	
For Work In Restricted Working Space, Add	19.32	
26 05 33 13-2254 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	65.77	
For Work In Restricted Working Space, Add	19.73	
26 05 33 13-2255 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	67.14	
For Work In Restricted Working Space, Add	20.14	
26 05 33 13-2256 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	69.89	
For Work In Restricted Working Space, Add	20.97	
26 05 33 13-2257 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	72.63	
For Work In Restricted Working Space, Add	21.79	
26 05 33 13-2258 Flexible Conduit (26 05 33 13-0057)		
26 05 33 13-2259 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2258)		
Note: Steel inner core with PVC cover.		
26 05 33 13-2260 Flexible Liquid Tight Metallic Conduit (26 05 33 13-2259)		
26 05 33 13-2261 LF 3/8" Flexible Liquid Tight Metallic Conduit.....	4.75	1.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Work In Restricted Working Space, Add	1.13	
26 05 33 13-2262 LF 1/2" Flexible Liquid Tight Metallic Conduit.....	4.90	1.50
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.56	
For Work In Restricted Working Space, Add	1.13	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2263 LF 3/4" Flexible Liquid Tight Metallic Conduit	6.56	2.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.75	
<i>For Work In Restricted Working Space, Add</i>	1.50	
26 05 33 13-2264 LF 1" Flexible Liquid Tight Metallic Conduit	7.35	2.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.75	
<i>For Work In Restricted Working Space, Add</i>	1.50	
26 05 33 13-2265 LF 1-1/4" Flexible Liquid Tight Metallic Conduit	9.45	2.50
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.94	
<i>For Work In Restricted Working Space, Add</i>	1.88	
26 05 33 13-2266 LF 1-1/2" Flexible Liquid Tight Metallic Conduit	12.00	3.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.13	
<i>For Work In Restricted Working Space, Add</i>	2.25	
26 05 33 13-2267 LF 2" Flexible Liquid Tight Metallic Conduit	15.82	4.00
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.50	
<i>For Work In Restricted Working Space, Add</i>	3.00	
26 05 33 13-2268 LF 2-1/2" Flexible Liquid Tight Metallic Conduit	20.87	4.50
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.69	
<i>For Work In Restricted Working Space, Add</i>	3.38	
26 05 33 13-2269 LF 3" Flexible Liquid Tight Metallic Conduit	29.92	5.50
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.06	
<i>For Work In Restricted Working Space, Add</i>	4.13	
26 05 33 13-2270 LF 4" Flexible Liquid Tight Metallic Conduit	40.57	7.01
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.63	
<i>For Work In Restricted Working Space, Add</i>	5.25	
26 05 33 13-2271 Straight Liquid Tight Connector <small>(26 05 33 13-2259)</small>		
26 05 33 13-2272 EA 3/8" Straight Liquid Tight Connector	12.85	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.00	
26 05 33 13-2273 EA 1/2" Straight Liquid Tight Connector	12.85	4.00
<i>For Work In Restricted Working Space, Add</i>	3.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.00	
26 05 33 13-2274 EA 3/4" Straight Liquid Tight Connector	15.35	4.50
<i>For Work In Restricted Working Space, Add</i>	3.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.38	
26 05 33 13-2275 EA 1" Straight Liquid Tight Connector	19.79	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 33 13-2276 EA 1-1/4" Straight Liquid Tight Connector	24.77	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2277 EA 1-1/2" Straight Liquid Tight Connector	30.73	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-2278 EA 2" Straight Liquid Tight Connector	41.46	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-2279 EA 2-1/2" Straight Liquid Tight Connector	131.26	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2280 EA 3" Straight Liquid Tight Connector	167.78	9.50
<i>For Work In Restricted Working Space, Add</i>	7.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33 13-2281 EA 4" Straight Liquid Tight Connector	207.02	14.00
<i>For Work In Restricted Working Space, Add</i>	10.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.50	
26 05 33 13-2282 90 Degree Angle Liquid Tight Connector <small>(26 05 33 13-2259)</small>		
26 05 33 13-2283 EA 3/8" 90 Degree Angle Liquid Tight Connector	18.51	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2284 EA 1/2" 90 Degree Angle Liquid Tight Connector	19.13	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2285 EA 3/4" 90 Degree Angle Liquid Tight Connector	21.47	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-2286 EA 1" 90 Degree Angle Liquid Tight Connector	29.26	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-2287 EA 1-1/4" 90 Degree Angle Liquid Tight Connector	35.95	7.50
<i>For Work In Restricted Working Space, Add</i>	5.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2288 EA 1-1/2" 90 Degree Angle Liquid Tight Connector	42.84	8.00
<i>For Work In Restricted Working Space, Add</i>	6.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33 13-2289 EA 2" 90 Degree Angle Liquid Tight Connector	55.57	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2290 EA 2-1/2" 90 Degree Angle Liquid Tight Connector	181.24	9.50
<i>For Work In Restricted Working Space, Add</i>	7.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2291 EA 3" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i>	214.00 8.25	11.00
26 05 33 13-2292 EA 4" 90 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	297.64 13.13 13.13	17.50
26 05 33 13-2293 45 Degree Angle Connector <small>(26 05 33 13-2259)</small>		
26 05 33 13-2294 EA 3/8" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.31 4.13 4.13	5.50
26 05 33 13-2295 EA 1/2" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.45 4.13 4.13	5.50
26 05 33 13-2296 EA 3/4" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.47 4.50 4.50	6.00
26 05 33 13-2297 EA 1" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.93 5.25 5.25	7.01
26 05 33 13-2298 EA 1-1/4" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.86 5.63 5.63	7.50
26 05 33 13-2299 EA 1-1/2" 45 Degree Angle Liquid Tight Connector..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.78 6.00 6.00	8.00
26 05 33 13-2300 Flexible Metallic Conduit And Connectors <small>(26 05 33 13-2258)</small>		
26 05 33 13-2301 Flexible Steel Conduit <small>(26 05 33 13-2300)</small>		
26 05 33 13-2302 LF 3/8" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	4.59 0.10 0.60 0.40 1.00 1.20	1.64
26 05 33 13-2303 LF 1/2" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	4.75 0.11 0.62 0.41 1.03 1.23	1.64
26 05 33 13-2304 LF 3/4" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	5.32 0.14 0.67 0.45 1.11 1.34	2.18
26 05 33 13-2305 LF 1" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	6.42 0.27 0.72 0.48 1.20 1.44	2.18
26 05 33 13-2306 LF 1-1/4" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	7.18 0.35 0.76 0.51 1.27 1.52	2.74
26 05 33 13-2307 LF 1-1/2" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	8.99 0.61 0.79 0.53 1.32 1.58	3.29
26 05 33 13-2308 LF 2" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	10.04 0.75 0.82 0.55 1.37 1.64	4.38
26 05 33 13-2309 LF 2-1/2" Flexible Steel Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	12.36 0.91 1.03 0.68 1.71 2.05	4.93
26 05 33 13-2310 LF 3" Flexible Metallic Conduit..... <i>For Flexible Aluminum Conduit, Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Work In Restricted Working Space, Add</i>	17.81 1.58 1.23 0.82 2.05 2.46	6.02

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2311 LF 3-1/2" Flexible Metallic Conduit.....	21.68	6.56
For Flexible Aluminum Conduit, Add	2.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.44	
For Installation In Metal Stud Wall, Add	0.96	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.40	
For Work In Restricted Working Space, Add	2.87	
26 05 33 13-2312 LF 4" Flexible Metallic Conduit.....	24.90	7.67
For Flexible Aluminum Conduit, Add	2.30	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.64	
For Installation In Metal Stud Wall, Add	1.09	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.74	
For Work In Restricted Working Space, Add	3.28	
26 05 33 13-2313 Plain Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2314 EA 3/8" Flexible Straight Connectors, Plain.....	7.63	4.38
For Work In Restricted Working Space, Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.85	
26 05 33 13-2315 EA 1/2" Flexible Straight Connectors, Plain.....	9.18	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2316 EA 3/4" Flexible Straight Connectors, Plain.....	10.67	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2317 EA 1" Flexible Straight Connectors, Plain.....	16.34	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2318 EA 1-1/4" Flexible Straight Connectors, Plain.....	22.54	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2319 EA 1-1/2" Flexible Straight Connectors, Plain.....	29.39	9.31
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2320 EA 2" Flexible Straight Connectors, Plain.....	37.99	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2321 EA 2-1/2" Flexible Straight Connectors, Plain.....	58.27	11.49
For Work In Restricted Working Space, Add	7.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.19	
26 05 33 13-2322 EA 3" Flexible Straight Connectors, Plain.....	74.95	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2323 EA 3-1/2" Flexible Straight Connectors, Plain.....	214.82	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2324 EA 4" Flexible Straight Connectors, Plain.....	267.02	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2325 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2326 EA 1/2" Flexible Straight Connectors, Insulated.....	9.98	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2327 EA 3/4" Flexible Straight Connectors, Insulated.....	11.73	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2328 EA 1" Flexible Straight Connectors, Insulated.....	17.78	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2329 EA 1-1/4" Flexible Straight Connectors, Insulated.....	25.18	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2330 EA 1-1/2" Flexible Straight Connectors, Insulated.....	34.08	8.21
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2331 EA 2" Flexible Straight Connectors, Insulated.....	46.28	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2332 EA 2-1/2" Flexible Straight Connectors, Insulated.....	76.02	11.49
For Work In Restricted Working Space, Add	7.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.19	
26 05 33 13-2333 EA 3" Flexible Straight Connectors, Insulated.....	95.87	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2334 EA 3-1/2" Flexible Straight Connectors, Insulated.....	247.06	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2335 EA 4" Flexible Straight Connectors, Insulated.....	315.50	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2336 Plain Squeeze Type 90 Degree Connector (26 05 33 13-2300)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2337 EA 3/8" Flexible 90 Degree Connector, Plain.....	10.57	5.47
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2338 EA 1/2" Flexible 90 Degree Connector, Plain.....	13.53	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2339 EA 3/4" Flexible 90 Degree Connector, Plain.....	17.12	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2340 EA 1" Flexible 90 Degree Connector, Plain.....	23.44	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2341 EA 1-1/4" Flexible 90 Degree Connector, Plain.....	34.94	8.21
For Work In Restricted Working Space, Add	4.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 05 33 13-2342 EA 1-1/2" Flexible 90 Degree Connector, Plain.....	52.88	9.58
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2343 EA 2" Flexible 90 Degree Connector, Plain.....	63.29	11.76
For Work In Restricted Working Space, Add	6.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 05 33 13-2344 EA 2-1/2" Flexible 90 Degree Connector, Plain.....	131.68	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2345 EA 3" Flexible 90 Degree Connector, Plain.....	167.74	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2346 EA 3-1/2" Flexible 90 Degree Connector, Plain.....	345.65	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2347 EA 4" Flexible 90 Degree Connector, Plain.....	610.95	20.52
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-2348 Insulated Throat Squeeze Type 90 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2349 EA 1/2" Flexible 90 Degree Connector, Insulated.....	14.64	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2350 EA 3/4" Flexible 90 Degree Connector, Insulated.....	18.50	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2351 EA 1" Flexible 90 Degree Connector, Insulated.....	23.44	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2352 EA 1-1/4" Flexible 90 Degree Connector, Insulated.....	39.83	8.21
For Work In Restricted Working Space, Add	4.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 05 33 13-2353 EA 1-1/2" Flexible 90 Degree Connector, Insulated.....	61.77	9.58
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2354 EA 2" Flexible 90 Degree Connector, Insulated.....	77.74	11.76
For Work In Restricted Working Space, Add	6.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.98	
26 05 33 13-2355 EA 2-1/2" Flexible 90 Degree Connector, Insulated.....	176.86	12.58
For Work In Restricted Working Space, Add	8.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 05 33 13-2356 EA 3" Flexible 90 Degree Connector, Insulated.....	216.69	14.78
For Work In Restricted Working Space, Add	9.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.24	
26 05 33 13-2357 EA 3-1/2" Flexible 90 Degree Connector, Insulated.....	567.51	18.07
For Work In Restricted Working Space, Add	10.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 05 33 13-2358 EA 4" Flexible 90 Degree Connector, Insulated.....	843.32	20.52
For Work In Restricted Working Space, Add	12.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 05 33 13-2359 Plain Squeeze Type 45 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2360 EA 3/8" Flexible 45 Degree Connector, Plain.....	11.47	5.47
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2361 EA 1/2" Flexible 45 Degree Connector, Plain.....	14.97	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2362 EA 3/4" Flexible 45 Degree Connector, Plain.....	18.73	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2363 Insulated Squeeze Type 45 Degree Connector <small>(26 05 33 13-2300)</small>		
26 05 33 13-2364 EA 3/8" Flexible 45 Degree Connector, Insulated.....	12.09	6.56
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2365 EA 1/2" Flexible 45 Degree Connector, Insulated.....	15.99	6.02
For Work In Restricted Working Space, Add	2.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.87	
26 05 33 13-2366 EA 3/4" Flexible 45 Degree Connector, Insulated.....	20.18	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2367 Plain Screw-In Connector (26 05 33 13-2300)		
26 05 33 13-2368 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	6.70	4.38
For Work In Restricted Working Space, Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.85	
26 05 33 13-2369 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	7.29	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2370 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	9.13	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2371 EA 1" Flexible Steel Screw-in Connector, Plain.....	12.78	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2372 EA 1-1/4" Flexible Steel Screw-in Connector, Plain.....	18.00	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2373 EA 1-1/2" Flexible Steel Screw-in Connector, Plain.....	22.12	8.21
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2374 EA 2" Flexible Steel Screw-in Connector, Plain.....	30.95	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2375 Insulated Screw-In Connector (26 05 33 13-2300)		
26 05 33 13-2376 EA 3/8" Flexible Steel Screw-in Connector, Insulated.....	6.97	4.38
For Work In Restricted Working Space, Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.85	
26 05 33 13-2377 EA 1/2" Flexible Steel Screw-in Connector, Insulated.....	7.50	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2378 EA 3/4" Flexible Steel Screw-in Connector, Insulated.....	9.67	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	
26 05 33 13-2379 EA 1" Flexible Steel Screw-in Connector, Insulated.....	13.62	6.56
For Work In Restricted Working Space, Add	3.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.28	
26 05 33 13-2380 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated.....	19.19	7.67
For Work In Restricted Working Space, Add	4.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 05 33 13-2381 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated.....	23.55	8.21
For Work In Restricted Working Space, Add	5.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.13	
26 05 33 13-2382 EA 2" Flexible Steel Screw-in Connector, Insulated.....	32.21	9.31
For Work In Restricted Working Space, Add	6.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 05 33 13-2383 Screw-In Coupling (26 05 33 13-2300)		
26 05 33 13-2384 EA 1/2" Flexible Steel Screw-in Coupling.....	7.81	4.93
For Work In Restricted Working Space, Add	2.05	
26 05 33 13-2385 EA 3/4" Flexible Steel Screw-in Coupling.....	9.99	6.02
For Work In Restricted Working Space, Add	2.46	
26 05 33 13-2386 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-2300)		
26 05 33 13-2387 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	9.48	4.38
For Work In Restricted Working Space, Add	1.85	
26 05 33 13-2388 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	12.37	4.93
For Work In Restricted Working Space, Add	2.05	
26 05 33 13-2389 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling.....	16.07	6.02
For Work In Restricted Working Space, Add	2.46	
26 05 33 13-2390 Die Cast Squeeze Type Straight Connector (26 05 33 13-2300)		
26 05 33 13-2391 EA 3/8" Flexible Straight Connector, Die Cast.....	6.87	4.38
For Work In Restricted Working Space, Add	1.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.85	
26 05 33 13-2392 EA 1/2" Flexible Straight Connector, Die Cast.....	7.73	4.93
For Work In Restricted Working Space, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.05	
26 05 33 13-2393 EA 3/4" Flexible Straight Connector, Die Cast.....	9.49	6.02
For Work In Restricted Working Space, Add	2.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2394	EA	1" Flexible Straight Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.81 3.28 3.28	6.56
26 05 33	13-2395	EA	1-1/4" Flexible Straight Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.26 4.11 4.11	7.67
26 05 33	13-2396	EA	1-1/2" Flexible Straight Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.27 5.13 5.13	8.21
26 05 33	13-2397	EA	2" Flexible Straight Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.84 6.16 6.16	9.31
26 05 33	13-2398		Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2300)		
26 05 33	13-2399	EA	3/8" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.11 2.46 2.46	5.47
26 05 33	13-2400	EA	1/2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.10 2.87 2.87	6.02
26 05 33	13-2401	EA	3/4" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.23 3.28 3.28	6.56
26 05 33	13-2402	EA	1" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.74 4.11 4.11	7.67
26 05 33	13-2403	EA	1-1/4" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.99 4.93 4.93	8.21
26 05 33	13-2404	EA	1-1/2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.25 6.16 6.16	9.58
26 05 33	13-2405	EA	2" Flexible 90 Degree Connector, Die Cast <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.70 6.98 6.98	11.76
26 05 33	13-2406		Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2258)		
26 05 33	13-2407		Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2406)		
26 05 33	13-2408	LF	3/8" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	4.51 1.13	1.50
26 05 33	13-2409	LF	1/2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	4.57 1.13	1.50
26 05 33	13-2410	LF	3/4" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	6.14 1.50	2.00
26 05 33	13-2411	LF	1" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	7.30 1.50	2.00
26 05 33	13-2412	LF	1-1/4" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	9.25 1.88	2.50
26 05 33	13-2413	LF	1-1/2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	11.67 2.25	3.00
26 05 33	13-2414	LF	2" Flexible Liquid Tight Non-Metallic Conduit <i>For Work In Restricted Working Space, Add</i>	15.08 3.00	4.00
26 05 33	13-2415		Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2406)		
26 05 33	13-2416	EA	3/8" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.80 3.00 3.00	4.00
26 05 33	13-2417	EA	1/2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.80 3.00 3.00	4.00
26 05 33	13-2418	EA	3/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.41 3.38 3.38	4.50
26 05 33	13-2419	EA	1" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.73 3.75 3.75	5.00
26 05 33	13-2420	EA	1-1/4" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.93 4.13 4.13	5.50
26 05 33	13-2421	EA	1-1/2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.56 4.50 4.50	6.00
26 05 33	13-2422	EA	2" Liquid Tight Non-Metallic Straight Connector <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.04 5.25 5.25	7.01
26 05 33	13-2423		Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2406)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2424 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	18.31	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2425 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	18.31	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2426 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	22.01	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-2427 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	30.15	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-2428 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	31.34	7.50
<i>For Work In Restricted Working Space, Add</i>	5.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2429 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	47.00	8.00
<i>For Work In Restricted Working Space, Add</i>	6.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33 13-2430 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector.....	62.00	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2431 Liquid Tight Non-Metallic 45 Degree Angle Connector <small>(26 05 33 13-2406)</small>		
26 05 33 13-2432 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	18.31	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2433 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	18.31	5.50
<i>For Work In Restricted Working Space, Add</i>	4.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.13	
26 05 33 13-2434 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	22.01	6.00
<i>For Work In Restricted Working Space, Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.50	
26 05 33 13-2435 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	30.15	7.01
<i>For Work In Restricted Working Space, Add</i>	5.25	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.25	
26 05 33 13-2436 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	31.34	7.50
<i>For Work In Restricted Working Space, Add</i>	5.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.63	
26 05 33 13-2437 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	47.00	8.00
<i>For Work In Restricted Working Space, Add</i>	6.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.00	
26 05 33 13-2438 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector.....	62.00	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2439 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-2258)</small>		
Note: Carlon - FLEX-PLUS.		
26 05 33 13-2440 Blue ENT Electrical Non-Metallic Tubing <small>(26 05 33 13-2439)</small>		
26 05 33 13-2441 LF 1/2" Blue ENT Electrical Non-Metallic Tubing.....	5.24	1.64
<i>For Work In Restricted Working Space, Add</i>	1.23	
26 05 33 13-2442 LF 3/4" Blue ENT Electrical Non-Metallic Tubing.....	7.04	2.18
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 33 13-2443 LF 1" Blue ENT Electrical Non-Metallic Tubing.....	8.01	2.18
<i>For Work In Restricted Working Space, Add</i>	1.64	
26 05 33 13-2444 Terminal Adapter <small>(26 05 33 13-2439)</small>		
26 05 33 13-2445 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	12.79	4.38
<i>For Work In Restricted Working Space, Add</i>	3.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.28	
26 05 33 13-2446 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	15.69	4.93
<i>For Work In Restricted Working Space, Add</i>	3.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33 13-2447 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	18.04	5.47
<i>For Work In Restricted Working Space, Add</i>	4.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.11	
26 05 33 13-2448 Coupling <small>(26 05 33 13-2439)</small>		
26 05 33 13-2449 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	12.55	4.38
<i>For Work In Restricted Working Space, Add</i>	3.28	
26 05 33 13-2450 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	14.40	4.93
<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 33 13-2451 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	16.83	5.47
<i>For Work In Restricted Working Space, Add</i>	4.11	
26 05 33 13-2452 Conduit Bodies <small>(26 05 33 13-0057)</small>		
26 05 33 13-2453 Threaded, Cast Aluminum Conduit Body <small>(26 05 33 13-2452)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2454		Type LB, Threaded, Two Hub Cast Aluminum Conduit Body <small>(26 05 33 13-2453)</small>		
26 05 33	13-2455	EA	1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	68.16	24.00
			For Mogul LB, Add	3.11	
			For Work In Restricted Working Space, Add	18.00	
			For Elevated Installation >10' To 15', Add	6.00	
			For Elevated Installation >15' To 20', Add	12.00	
			For Elevated Installation >20' To 25', Add	15.00	
			For Elevated Installation >25' To 30', Add	21.00	
			For Elevated Installation >30' To 35', Add	24.00	
			For Elevated Installation >35' To 40', Add	30.01	
			For Elevated Installation >40', Add	33.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33	13-2456	EA	3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	79.82	27.50
			For Mogul LB, Add	4.87	
			For Work In Restricted Working Space, Add	20.63	
			For Elevated Installation >10' To 15', Add	6.88	
			For Elevated Installation >15' To 20', Add	13.75	
			For Elevated Installation >20' To 25', Add	17.19	
			For Elevated Installation >25' To 30', Add	24.06	
			For Elevated Installation >30' To 35', Add	27.50	
			For Elevated Installation >35' To 40', Add	34.38	
			For Elevated Installation >40', Add	37.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33	13-2457	EA	1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	95.77	32.00
			For Mogul LB, Add	7.82	
			For Work In Restricted Working Space, Add	24.00	
			For Elevated Installation >10' To 15', Add	8.00	
			For Elevated Installation >15' To 20', Add	16.00	
			For Elevated Installation >20' To 25', Add	20.00	
			For Elevated Installation >25' To 30', Add	28.00	
			For Elevated Installation >30' To 35', Add	32.00	
			For Elevated Installation >35' To 40', Add	40.01	
			For Elevated Installation >40', Add	44.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33	13-2458	EA	1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	114.80	36.50
			For Mogul LB, Add	13.08	
			For Work In Restricted Working Space, Add	27.38	
			For Elevated Installation >10' To 15', Add	9.13	
			For Elevated Installation >15' To 20', Add	18.25	
			For Elevated Installation >20' To 25', Add	22.82	
			For Elevated Installation >25' To 30', Add	31.94	
			For Elevated Installation >30' To 35', Add	36.51	
			For Elevated Installation >35' To 40', Add	45.64	
			For Elevated Installation >40', Add	50.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33	13-2459	EA	1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	130.37	40.00
			For Mogul LB, Add	17.77	
			For Work In Restricted Working Space, Add	30.00	
			For Elevated Installation >10' To 15', Add	10.00	
			For Elevated Installation >15' To 20', Add	20.00	
			For Elevated Installation >20' To 25', Add	25.00	
			For Elevated Installation >25' To 30', Add	35.00	
			For Elevated Installation >30' To 35', Add	40.00	
			For Elevated Installation >35' To 40', Add	50.01	
			For Elevated Installation >40', Add	55.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33	13-2460	EA	2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	169.05	48.01
			For Mogul LB, Add	30.78	
			For Work In Restricted Working Space, Add	36.00	
			For Elevated Installation >10' To 15', Add	12.00	
			For Elevated Installation >15' To 20', Add	24.00	
			For Elevated Installation >20' To 25', Add	30.00	
			For Elevated Installation >25' To 30', Add	42.00	
			For Elevated Installation >30' To 35', Add	48.00	
			For Elevated Installation >35' To 40', Add	60.01	
			For Elevated Installation >40', Add	66.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	
26 05 33	13-2461	EA	2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	277.31	67.51
			For Mogul LB, Add	72.97	
			For Work In Restricted Working Space, Add	50.63	
			For Elevated Installation >10' To 15', Add	16.88	
			For Elevated Installation >15' To 20', Add	33.75	
			For Elevated Installation >20' To 25', Add	42.19	
			For Elevated Installation >25' To 30', Add	59.07	
			For Elevated Installation >30' To 35', Add	67.51	
			For Elevated Installation >35' To 40', Add	84.39	
			For Elevated Installation >40', Add	92.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2462	EA		3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	365.17	90.01
			<i>For Mogul LB, Add</i>	93.85	
			<i>For Work In Restricted Working Space, Add</i>	67.51	
			<i>For Elevated Installation >10' To 15', Add</i>	22.50	
			<i>For Elevated Installation >15' To 20', Add</i>	45.01	
			<i>For Elevated Installation >20' To 25', Add</i>	56.26	
			<i>For Elevated Installation >25' To 30', Add</i>	78.76	
			<i>For Elevated Installation >30' To 35', Add</i>	90.01	
			<i>For Elevated Installation >35' To 40', Add</i>	112.52	
			<i>For Elevated Installation >40', Add</i>	123.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-2463	EA		3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	481.70	112.51
			<i>For Mogul LB, Add</i>	136.25	
			<i>For Work In Restricted Working Space, Add</i>	84.38	
			<i>For Elevated Installation >10' To 15', Add</i>	28.13	
			<i>For Elevated Installation >15' To 20', Add</i>	56.26	
			<i>For Elevated Installation >20' To 25', Add</i>	70.32	
			<i>For Elevated Installation >25' To 30', Add</i>	98.45	
			<i>For Elevated Installation >30' To 35', Add</i>	112.51	
			<i>For Elevated Installation >35' To 40', Add</i>	140.64	
			<i>For Elevated Installation >40', Add</i>	154.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33 13-2464	EA		4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	621.04	137.02
			<i>For Mogul LB, Add</i>	191.75	
			<i>For Work In Restricted Working Space, Add</i>	102.76	
			<i>For Elevated Installation >10' To 15', Add</i>	34.25	
			<i>For Elevated Installation >15' To 20', Add</i>	68.51	
			<i>For Elevated Installation >20' To 25', Add</i>	85.64	
			<i>For Elevated Installation >25' To 30', Add</i>	119.89	
			<i>For Elevated Installation >30' To 35', Add</i>	137.02	
			<i>For Elevated Installation >35' To 40', Add</i>	171.27	
			<i>For Elevated Installation >40', Add</i>	188.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.76	
26 05 33 13-2465			Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With		
			Cover <small>(26 05 33 13-2463)</small>		
26 05 33 13-2466	EA		1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	69.15	24.00
			<i>For Mogul LB, Add</i>	3.85	
			<i>For Work In Restricted Working Space, Add</i>	18.00	
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	12.00	
			<i>For Elevated Installation >20' To 25', Add</i>	15.00	
			<i>For Elevated Installation >25' To 30', Add</i>	21.00	
			<i>For Elevated Installation >30' To 35', Add</i>	24.00	
			<i>For Elevated Installation >35' To 40', Add</i>	30.01	
			<i>For Elevated Installation >40', Add</i>	33.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.00	
26 05 33 13-2467	EA		3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	80.79	27.50
			<i>For Mogul LB, Add</i>	5.59	
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.06	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-2468	EA		1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	97.72	32.00
			<i>For Mogul LB, Add</i>	9.28	
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.01	
			<i>For Elevated Installation >40', Add</i>	44.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-2469	EA		1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	117.18	36.50
			<i>For Mogul LB, Add</i>	14.87	
			<i>For Work In Restricted Working Space, Add</i>	27.38	
			<i>For Elevated Installation >10' To 15', Add</i>	9.13	
			<i>For Elevated Installation >15' To 20', Add</i>	18.25	
			<i>For Elevated Installation >20' To 25', Add</i>	22.82	
			<i>For Elevated Installation >25' To 30', Add</i>	31.94	
			<i>For Elevated Installation >30' To 35', Add</i>	36.51	
			<i>For Elevated Installation >35' To 40', Add</i>	45.64	
			<i>For Elevated Installation >40', Add</i>	50.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2470	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	134.41	40.00
			<i>For Mogul LB, Add</i>	20.80	
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33	13-2471	EA	2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	177.72	48.01
			<i>For Mogul LB, Add</i>	37.28	
			<i>For Work In Restricted Working Space, Add</i>	36.00	
			<i>For Elevated Installation >10' To 15', Add</i>	12.00	
			<i>For Elevated Installation >15' To 20', Add</i>	24.00	
			<i>For Elevated Installation >20' To 25', Add</i>	30.00	
			<i>For Elevated Installation >25' To 30', Add</i>	42.00	
			<i>For Elevated Installation >30' To 35', Add</i>	48.00	
			<i>For Elevated Installation >35' To 40', Add</i>	60.01	
			<i>For Elevated Installation >40', Add</i>	66.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.00	
26 05 33	13-2472	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	272.93	67.51
			<i>For Mogul LB, Add</i>	69.68	
			<i>For Work In Restricted Working Space, Add</i>	50.63	
			<i>For Elevated Installation >10' To 15', Add</i>	16.88	
			<i>For Elevated Installation >15' To 20', Add</i>	33.75	
			<i>For Elevated Installation >20' To 25', Add</i>	42.19	
			<i>For Elevated Installation >25' To 30', Add</i>	59.07	
			<i>For Elevated Installation >30' To 35', Add</i>	67.51	
			<i>For Elevated Installation >35' To 40', Add</i>	84.39	
			<i>For Elevated Installation >40', Add</i>	92.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.63	
26 05 33	13-2473	EA	3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	350.46	90.01
			<i>For Mogul LB, Add</i>	82.82	
			<i>For Work In Restricted Working Space, Add</i>	67.51	
			<i>For Elevated Installation >10' To 15', Add</i>	22.50	
			<i>For Elevated Installation >15' To 20', Add</i>	45.01	
			<i>For Elevated Installation >20' To 25', Add</i>	56.26	
			<i>For Elevated Installation >25' To 30', Add</i>	78.76	
			<i>For Elevated Installation >30' To 35', Add</i>	90.01	
			<i>For Elevated Installation >35' To 40', Add</i>	112.52	
			<i>For Elevated Installation >40', Add</i>	123.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33	13-2474	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	494.24	112.51
			<i>For Mogul LB, Add</i>	145.66	
			<i>For Work In Restricted Working Space, Add</i>	84.38	
			<i>For Elevated Installation >10' To 15', Add</i>	28.13	
			<i>For Elevated Installation >15' To 20', Add</i>	56.26	
			<i>For Elevated Installation >20' To 25', Add</i>	70.32	
			<i>For Elevated Installation >25' To 30', Add</i>	98.45	
			<i>For Elevated Installation >30' To 35', Add</i>	112.51	
			<i>For Elevated Installation >35' To 40', Add</i>	140.64	
			<i>For Elevated Installation >40', Add</i>	154.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33	13-2475	EA	4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	646.67	137.02
			<i>For Mogul LB, Add</i>	210.97	
			<i>For Work In Restricted Working Space, Add</i>	102.76	
			<i>For Elevated Installation >10' To 15', Add</i>	34.25	
			<i>For Elevated Installation >15' To 20', Add</i>	68.51	
			<i>For Elevated Installation >20' To 25', Add</i>	85.64	
			<i>For Elevated Installation >25' To 30', Add</i>	119.89	
			<i>For Elevated Installation >30' To 35', Add</i>	137.02	
			<i>For Elevated Installation >35' To 40', Add</i>	171.27	
			<i>For Elevated Installation >40', Add</i>	188.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.76	
26 05 33	13-2476		Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2453)		
26 05 33	13-2477	EA	1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	79.56	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.06	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2478	EA		3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	93.93	32.00
			<i>For Work In Restricted Working Space, Add</i>	24.00	
			<i>For Elevated Installation >10' To 15', Add</i>	8.00	
			<i>For Elevated Installation >15' To 20', Add</i>	16.00	
			<i>For Elevated Installation >20' To 25', Add</i>	20.00	
			<i>For Elevated Installation >25' To 30', Add</i>	28.00	
			<i>For Elevated Installation >30' To 35', Add</i>	32.00	
			<i>For Elevated Installation >35' To 40', Add</i>	40.01	
			<i>For Elevated Installation >40', Add</i>	44.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.00	
26 05 33 13-2479	EA		1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	107.20	35.01
			<i>For Work In Restricted Working Space, Add</i>	26.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.50	
			<i>For Elevated Installation >20' To 25', Add</i>	21.88	
			<i>For Elevated Installation >25' To 30', Add</i>	30.63	
			<i>For Elevated Installation >30' To 35', Add</i>	35.00	
			<i>For Elevated Installation >35' To 40', Add</i>	43.76	
			<i>For Elevated Installation >40', Add</i>	48.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-2480	EA		1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	129.86	40.00
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	
26 05 33 13-2481	EA		1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	148.82	44.01
			<i>For Work In Restricted Working Space, Add</i>	33.01	
			<i>For Elevated Installation >10' To 15', Add</i>	11.00	
			<i>For Elevated Installation >15' To 20', Add</i>	22.00	
			<i>For Elevated Installation >20' To 25', Add</i>	27.51	
			<i>For Elevated Installation >25' To 30', Add</i>	38.51	
			<i>For Elevated Installation >30' To 35', Add</i>	44.01	
			<i>For Elevated Installation >35' To 40', Add</i>	55.01	
			<i>For Elevated Installation >40', Add</i>	60.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.01	
26 05 33 13-2482	EA		2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	195.13	51.51
			<i>For Work In Restricted Working Space, Add</i>	38.63	
			<i>For Elevated Installation >10' To 15', Add</i>	12.88	
			<i>For Elevated Installation >15' To 20', Add</i>	25.75	
			<i>For Elevated Installation >20' To 25', Add</i>	32.19	
			<i>For Elevated Installation >25' To 30', Add</i>	45.07	
			<i>For Elevated Installation >30' To 35', Add</i>	51.51	
			<i>For Elevated Installation >35' To 40', Add</i>	64.39	
			<i>For Elevated Installation >40', Add</i>	70.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.63	
26 05 33 13-2483	EA		2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	304.77	75.01
			<i>For Work In Restricted Working Space, Add</i>	56.26	
			<i>For Elevated Installation >10' To 15', Add</i>	18.75	
			<i>For Elevated Installation >15' To 20', Add</i>	37.50	
			<i>For Elevated Installation >20' To 25', Add</i>	46.88	
			<i>For Elevated Installation >25' To 30', Add</i>	65.63	
			<i>For Elevated Installation >30' To 35', Add</i>	75.01	
			<i>For Elevated Installation >35' To 40', Add</i>	93.76	
			<i>For Elevated Installation >40', Add</i>	103.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.26	
26 05 33 13-2484	EA		3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	394.09	97.51
			<i>For Work In Restricted Working Space, Add</i>	73.13	
			<i>For Elevated Installation >10' To 15', Add</i>	24.38	
			<i>For Elevated Installation >15' To 20', Add</i>	48.76	
			<i>For Elevated Installation >20' To 25', Add</i>	60.95	
			<i>For Elevated Installation >25' To 30', Add</i>	85.32	
			<i>For Elevated Installation >30' To 35', Add</i>	97.51	
			<i>For Elevated Installation >35' To 40', Add</i>	121.89	
			<i>For Elevated Installation >40', Add</i>	134.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.13	
26 05 33 13-2485	EA		3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	612.21	120.01
			<i>For Work In Restricted Working Space, Add</i>	90.01	
			<i>For Elevated Installation >10' To 15', Add</i>	30.00	
			<i>For Elevated Installation >15' To 20', Add</i>	60.01	
			<i>For Elevated Installation >20' To 25', Add</i>	75.01	
			<i>For Elevated Installation >25' To 30', Add</i>	105.01	
			<i>For Elevated Installation >30' To 35', Add</i>	120.01	
			<i>For Elevated Installation >35' To 40', Add</i>	150.02	
			<i>For Elevated Installation >40', Add</i>	165.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2486 EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover.....	705.02	144.52
For Work In Restricted Working Space, Add	108.39	
For Elevated Installation >10' To 15', Add	36.13	
For Elevated Installation >15' To 20', Add	72.26	
For Elevated Installation >20' To 25', Add	90.32	
For Elevated Installation >25' To 30', Add	126.45	
For Elevated Installation >30' To 35', Add	144.52	
For Elevated Installation >35' To 40', Add	180.65	
For Elevated Installation >40', Add	198.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.39	
26 05 33 13-2487 Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2483)</small>		
26 05 33 13-2488 EA 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	69.35	24.00
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2489 EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	80.10	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2490 EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	95.68	31.50
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-2491 EA 1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	116.23	36.50
For Work In Restricted Working Space, Add	27.38	
For Elevated Installation >10' To 15', Add	9.13	
For Elevated Installation >15' To 20', Add	18.25	
For Elevated Installation >20' To 25', Add	22.82	
For Elevated Installation >25' To 30', Add	31.94	
For Elevated Installation >30' To 35', Add	36.51	
For Elevated Installation >35' To 40', Add	45.64	
For Elevated Installation >40', Add	50.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33 13-2492 EA 1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	129.71	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-2493 EA 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	169.12	48.01
For Work In Restricted Working Space, Add	36.00	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.00	
For Elevated Installation >25' To 30', Add	42.00	
For Elevated Installation >30' To 35', Add	48.00	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	
26 05 33 13-2494 EA 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	269.25	67.51
For Work In Restricted Working Space, Add	50.63	
For Elevated Installation >10' To 15', Add	16.88	
For Elevated Installation >15' To 20', Add	33.75	
For Elevated Installation >20' To 25', Add	42.19	
For Elevated Installation >25' To 30', Add	59.07	
For Elevated Installation >30' To 35', Add	67.51	
For Elevated Installation >35' To 40', Add	84.39	
For Elevated Installation >40', Add	92.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.63	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2495	EA		3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 348.11		90.01
			<i>For Work In Restricted Working Space, Add</i>	67.51	
			<i>For Elevated Installation >10' To 15', Add</i>	22.50	
			<i>For Elevated Installation >15' To 20', Add</i>	45.01	
			<i>For Elevated Installation >20' To 25', Add</i>	56.26	
			<i>For Elevated Installation >25' To 30', Add</i>	78.76	
			<i>For Elevated Installation >30' To 35', Add</i>	90.01	
			<i>For Elevated Installation >35' To 40', Add</i>	112.52	
			<i>For Elevated Installation >40', Add</i>	123.77	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-2496	EA		3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 486.70		112.51
			<i>For Work In Restricted Working Space, Add</i>	84.38	
			<i>For Elevated Installation >10' To 15', Add</i>	28.13	
			<i>For Elevated Installation >15' To 20', Add</i>	56.26	
			<i>For Elevated Installation >20' To 25', Add</i>	70.32	
			<i>For Elevated Installation >25' To 30', Add</i>	98.45	
			<i>For Elevated Installation >30' To 35', Add</i>	112.51	
			<i>For Elevated Installation >35' To 40', Add</i>	140.64	
			<i>For Elevated Installation >40', Add</i>	154.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33 13-2497	EA		4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 623.39		137.02
			<i>For Work In Restricted Working Space, Add</i>	102.76	
			<i>For Elevated Installation >10' To 15', Add</i>	34.25	
			<i>For Elevated Installation >15' To 20', Add</i>	68.51	
			<i>For Elevated Installation >20' To 25', Add</i>	85.64	
			<i>For Elevated Installation >25' To 30', Add</i>	119.89	
			<i>For Elevated Installation >30' To 35', Add</i>	137.02	
			<i>For Elevated Installation >35' To 40', Add</i>	171.27	
			<i>For Elevated Installation >40', Add</i>	188.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.76	
26 05 33 13-2498			Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2498)</small>		
26 05 33 13-2499	EA		1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 92.03		31.50
			<i>For Work In Restricted Working Space, Add</i>	23.63	
			<i>For Elevated Installation >10' To 15', Add</i>	7.88	
			<i>For Elevated Installation >15' To 20', Add</i>	15.75	
			<i>For Elevated Installation >20' To 25', Add</i>	19.69	
			<i>For Elevated Installation >25' To 30', Add</i>	27.57	
			<i>For Elevated Installation >30' To 35', Add</i>	31.50	
			<i>For Elevated Installation >35' To 40', Add</i>	39.38	
			<i>For Elevated Installation >40', Add</i>	43.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.63	
26 05 33 13-2500	EA		3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 105.46		35.01
			<i>For Work In Restricted Working Space, Add</i>	26.25	
			<i>For Elevated Installation >10' To 15', Add</i>	8.75	
			<i>For Elevated Installation >15' To 20', Add</i>	17.50	
			<i>For Elevated Installation >20' To 25', Add</i>	21.88	
			<i>For Elevated Installation >25' To 30', Add</i>	30.63	
			<i>For Elevated Installation >30' To 35', Add</i>	35.00	
			<i>For Elevated Installation >35' To 40', Add</i>	43.76	
			<i>For Elevated Installation >40', Add</i>	48.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-2501	EA		1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 126.63		38.51
			<i>For Work In Restricted Working Space, Add</i>	28.88	
			<i>For Elevated Installation >10' To 15', Add</i>	9.63	
			<i>For Elevated Installation >15' To 20', Add</i>	19.25	
			<i>For Elevated Installation >20' To 25', Add</i>	24.07	
			<i>For Elevated Installation >25' To 30', Add</i>	33.69	
			<i>For Elevated Installation >30' To 35', Add</i>	38.51	
			<i>For Elevated Installation >35' To 40', Add</i>	48.14	
			<i>For Elevated Installation >40', Add</i>	52.95	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.88	
26 05 33 13-2502	EA		1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 145.77		44.01
			<i>For Work In Restricted Working Space, Add</i>	33.01	
			<i>For Elevated Installation >10' To 15', Add</i>	11.00	
			<i>For Elevated Installation >15' To 20', Add</i>	22.00	
			<i>For Elevated Installation >20' To 25', Add</i>	27.51	
			<i>For Elevated Installation >25' To 30', Add</i>	38.51	
			<i>For Elevated Installation >30' To 35', Add</i>	44.01	
			<i>For Elevated Installation >35' To 40', Add</i>	55.01	
			<i>For Elevated Installation >40', Add</i>	60.51	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.01	
26 05 33 13-2503	EA		1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 182.62		48.01
			<i>For Work In Restricted Working Space, Add</i>	36.00	
			<i>For Elevated Installation >10' To 15', Add</i>	12.00	
			<i>For Elevated Installation >15' To 20', Add</i>	24.00	
			<i>For Elevated Installation >20' To 25', Add</i>	30.00	
			<i>For Elevated Installation >25' To 30', Add</i>	42.00	
			<i>For Elevated Installation >30' To 35', Add</i>	48.00	
			<i>For Elevated Installation >35' To 40', Add</i>	60.01	
			<i>For Elevated Installation >40', Add</i>	66.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2504 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	221.36	59.00
For Work In Restricted Working Space, Add	44.26	
For Elevated Installation >10' To 15', Add	14.75	
For Elevated Installation >15' To 20', Add	29.50	
For Elevated Installation >20' To 25', Add	36.88	
For Elevated Installation >25' To 30', Add	51.63	
For Elevated Installation >30' To 35', Add	59.01	
For Elevated Installation >35' To 40', Add	73.76	
For Elevated Installation >40', Add	81.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.26	
26 05 33 13-2505 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	399.48	86.51
For Work In Restricted Working Space, Add	64.88	
For Elevated Installation >10' To 15', Add	21.63	
For Elevated Installation >15' To 20', Add	43.26	
For Elevated Installation >20' To 25', Add	54.07	
For Elevated Installation >25' To 30', Add	75.70	
For Elevated Installation >30' To 35', Add	86.51	
For Elevated Installation >35' To 40', Add	108.14	
For Elevated Installation >40', Add	118.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.88	
26 05 33 13-2506 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	495.89	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2507 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover	696.18	139.01
For Work In Restricted Working Space, Add	105.02	
For Elevated Installation >10' To 15', Add	35.01	
For Elevated Installation >15' To 20', Add	70.01	
For Elevated Installation >20' To 25', Add	87.51	
For Elevated Installation >25' To 30', Add	122.52	
For Elevated Installation >30' To 35', Add	140.02	
For Elevated Installation >35' To 40', Add	175.03	
For Elevated Installation >40', Add	192.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.02	
26 05 33 13-2508 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	839.81	167.02
For Work In Restricted Working Space, Add	125.27	
For Elevated Installation >10' To 15', Add	41.76	
For Elevated Installation >15' To 20', Add	83.51	
For Elevated Installation >20' To 25', Add	104.39	
For Elevated Installation >25' To 30', Add	146.14	
For Elevated Installation >30' To 35', Add	167.02	
For Elevated Installation >35' To 40', Add	208.78	
For Elevated Installation >40', Add	229.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.27	
26 05 33 13-2509 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2452)</small>		
26 05 33 13-2510 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2511 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	70.94	24.00
For Work In Restricted Working Space, Add	18.00	
For Elevated Installation >10' To 15', Add	6.00	
For Elevated Installation >15' To 20', Add	12.00	
For Elevated Installation >20' To 25', Add	15.00	
For Elevated Installation >25' To 30', Add	21.00	
For Elevated Installation >30' To 35', Add	24.00	
For Elevated Installation >35' To 40', Add	30.01	
For Elevated Installation >40', Add	33.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2512 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	82.15	27.50
For Work In Restricted Working Space, Add	20.63	
For Elevated Installation >10' To 15', Add	6.88	
For Elevated Installation >15' To 20', Add	13.75	
For Elevated Installation >20' To 25', Add	17.19	
For Elevated Installation >25' To 30', Add	24.06	
For Elevated Installation >30' To 35', Add	27.50	
For Elevated Installation >35' To 40', Add	34.38	
For Elevated Installation >40', Add	37.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2513 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	99.98	32.00
For Work In Restricted Working Space, Add	24.00	
For Elevated Installation >10' To 15', Add	8.00	
For Elevated Installation >15' To 20', Add	16.00	
For Elevated Installation >20' To 25', Add	20.00	
For Elevated Installation >25' To 30', Add	28.00	
For Elevated Installation >30' To 35', Add	32.00	
For Elevated Installation >35' To 40', Add	40.01	
For Elevated Installation >40', Add	44.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2514 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	127.08	36.50
For Work In Restricted Working Space, Add	27.38	
For Elevated Installation >10' To 15', Add	9.13	
For Elevated Installation >15' To 20', Add	18.25	
For Elevated Installation >20' To 25', Add	22.82	
For Elevated Installation >25' To 30', Add	31.94	
For Elevated Installation >30' To 35', Add	36.50	
For Elevated Installation >35' To 40', Add	45.63	
For Elevated Installation >40', Add	50.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33 13-2515 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	143.95	40.00
For Work In Restricted Working Space, Add	30.00	
For Elevated Installation >10' To 15', Add	10.00	
For Elevated Installation >15' To 20', Add	20.00	
For Elevated Installation >20' To 25', Add	25.00	
For Elevated Installation >25' To 30', Add	35.00	
For Elevated Installation >30' To 35', Add	40.00	
For Elevated Installation >35' To 40', Add	50.01	
For Elevated Installation >40', Add	55.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-2516 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	193.55	48.01
For Work In Restricted Working Space, Add	36.01	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.01	
For Elevated Installation >25' To 30', Add	42.01	
For Elevated Installation >30' To 35', Add	48.01	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.01	
26 05 33 13-2517 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	319.29	67.51
For Work In Restricted Working Space, Add	50.63	
For Elevated Installation >10' To 15', Add	16.88	
For Elevated Installation >15' To 20', Add	33.76	
For Elevated Installation >20' To 25', Add	42.20	
For Elevated Installation >25' To 30', Add	59.07	
For Elevated Installation >30' To 35', Add	67.51	
For Elevated Installation >35' To 40', Add	84.39	
For Elevated Installation >40', Add	92.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.63	
26 05 33 13-2518 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	449.57	90.01
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.02	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-2519 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	613.68	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2520 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	735.61	137.02
For Work In Restricted Working Space, Add	102.77	
For Elevated Installation >10' To 15', Add	34.26	
For Elevated Installation >15' To 20', Add	68.51	
For Elevated Installation >20' To 25', Add	85.64	
For Elevated Installation >25' To 30', Add	119.89	
For Elevated Installation >30' To 35', Add	137.02	
For Elevated Installation >35' To 40', Add	171.28	
For Elevated Installation >40', Add	188.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.77	
26 05 33 13-2521 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover		
<small>(26 05 33 13-2509)</small>		
26 05 33 13-2522 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	73.47	24.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.00	
26 05 33 13-2523 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	82.89	27.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.63	
26 05 33 13-2524 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	103.84	32.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.00	
26 05 33 13-2525 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	129.67	36.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.38	
26 05 33 13-2526 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	147.11	40.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.00	
26 05 33 13-2527 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover	187.05	48.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2528 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	283.20	67.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.63	
26 05 33 13-2529 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	384.67	90.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.51	
26 05 33 13-2530 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	651.90	112.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.38	
26 05 33 13-2531 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	763.80	137.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.77	
26 05 33 13-2532 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2533 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	86.79	27.50
<i>For Work In Restricted Working Space, Add</i>	20.63	
<i>For Elevated Installation >10' To 15', Add</i>	6.88	
<i>For Elevated Installation >15' To 20', Add</i>	13.75	
<i>For Elevated Installation >20' To 25', Add</i>	17.19	
<i>For Elevated Installation >25' To 30', Add</i>	24.06	
<i>For Elevated Installation >30' To 35', Add</i>	27.50	
<i>For Elevated Installation >35' To 40', Add</i>	34.38	
<i>For Elevated Installation >40', Add</i>	37.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-2534 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	102.36	32.00
<i>For Work In Restricted Working Space, Add</i>	24.38	
<i>For Elevated Installation >10' To 15', Add</i>	8.13	
<i>For Elevated Installation >15' To 20', Add</i>	16.25	
<i>For Elevated Installation >20' To 25', Add</i>	20.32	
<i>For Elevated Installation >25' To 30', Add</i>	28.44	
<i>For Elevated Installation >30' To 35', Add</i>	32.50	
<i>For Elevated Installation >35' To 40', Add</i>	40.63	
<i>For Elevated Installation >40', Add</i>	44.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.38	
26 05 33 13-2535 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	119.42	35.01
<i>For Work In Restricted Working Space, Add</i>	26.25	
<i>For Elevated Installation >10' To 15', Add</i>	8.75	
<i>For Elevated Installation >15' To 20', Add</i>	17.50	
<i>For Elevated Installation >20' To 25', Add</i>	21.88	
<i>For Elevated Installation >25' To 30', Add</i>	30.63	
<i>For Elevated Installation >30' To 35', Add</i>	35.00	
<i>For Elevated Installation >35' To 40', Add</i>	43.76	
<i>For Elevated Installation >40', Add</i>	48.13	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.25	
26 05 33 13-2536 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	148.20	40.00
<i>For Work In Restricted Working Space, Add</i>	29.63	
<i>For Elevated Installation >10' To 15', Add</i>	9.88	
<i>For Elevated Installation >15' To 20', Add</i>	19.75	
<i>For Elevated Installation >20' To 25', Add</i>	24.69	
<i>For Elevated Installation >25' To 30', Add</i>	34.57	
<i>For Elevated Installation >30' To 35', Add</i>	39.50	
<i>For Elevated Installation >35' To 40', Add</i>	49.38	
<i>For Elevated Installation >40', Add</i>	54.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.63	
26 05 33 13-2537 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	169.43	44.01
<i>For Work In Restricted Working Space, Add</i>	33.01	
<i>For Elevated Installation >10' To 15', Add</i>	11.00	
<i>For Elevated Installation >15' To 20', Add</i>	22.00	
<i>For Elevated Installation >20' To 25', Add</i>	27.51	
<i>For Elevated Installation >25' To 30', Add</i>	38.51	
<i>For Elevated Installation >30' To 35', Add</i>	44.01	
<i>For Elevated Installation >35' To 40', Add</i>	55.01	
<i>For Elevated Installation >40', Add</i>	60.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.01	
26 05 33 13-2538 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	221.85	51.51
<i>For Work In Restricted Working Space, Add</i>	38.63	
<i>For Elevated Installation >10' To 15', Add</i>	12.88	
<i>For Elevated Installation >15' To 20', Add</i>	25.75	
<i>For Elevated Installation >20' To 25', Add</i>	32.19	
<i>For Elevated Installation >25' To 30', Add</i>	45.07	
<i>For Elevated Installation >30' To 35', Add</i>	51.51	
<i>For Elevated Installation >35' To 40', Add</i>	64.39	
<i>For Elevated Installation >40', Add</i>	70.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.63	
26 05 33 13-2539 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	285.17	75.01
<i>For Work In Restricted Working Space, Add</i>	56.26	
<i>For Elevated Installation >10' To 15', Add</i>	18.75	
<i>For Elevated Installation >15' To 20', Add</i>	37.50	
<i>For Elevated Installation >20' To 25', Add</i>	46.88	
<i>For Elevated Installation >25' To 30', Add</i>	65.63	
<i>For Elevated Installation >30' To 35', Add</i>	75.01	
<i>For Elevated Installation >35' To 40', Add</i>	93.76	
<i>For Elevated Installation >40', Add</i>	103.14	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2540	EA		3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	406.06	97.51
			<i>For Work In Restricted Working Space, Add</i>	73.13	
			<i>For Elevated Installation >10' To 15', Add</i>	24.38	
			<i>For Elevated Installation >15' To 20', Add</i>	48.76	
			<i>For Elevated Installation >20' To 25', Add</i>	60.95	
			<i>For Elevated Installation >25' To 30', Add</i>	85.32	
			<i>For Elevated Installation >30' To 35', Add</i>	97.51	
			<i>For Elevated Installation >35' To 40', Add</i>	121.89	
			<i>For Elevated Installation >40', Add</i>	134.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.13	
26 05 33 13-2541	EA		3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	688.30	120.01
			<i>For Work In Restricted Working Space, Add</i>	90.01	
			<i>For Elevated Installation >10' To 15', Add</i>	30.00	
			<i>For Elevated Installation >15' To 20', Add</i>	60.01	
			<i>For Elevated Installation >20' To 25', Add</i>	75.01	
			<i>For Elevated Installation >25' To 30', Add</i>	105.01	
			<i>For Elevated Installation >30' To 35', Add</i>	120.01	
			<i>For Elevated Installation >35' To 40', Add</i>	150.02	
			<i>For Elevated Installation >40', Add</i>	165.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.01	
26 05 33 13-2542	EA		4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	799.05	144.52
			<i>For Work In Restricted Working Space, Add</i>	108.77	
			<i>For Elevated Installation >10' To 15', Add</i>	36.26	
			<i>For Elevated Installation >15' To 20', Add</i>	72.51	
			<i>For Elevated Installation >20' To 25', Add</i>	90.64	
			<i>For Elevated Installation >25' To 30', Add</i>	126.89	
			<i>For Elevated Installation >30' To 35', Add</i>	145.02	
			<i>For Elevated Installation >35' To 40', Add</i>	181.28	
			<i>For Elevated Installation >40', Add</i>	199.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.77	
26 05 33 13-2543			Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2539)</small>		
26 05 33 13-2544	EA		1 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	71.13	24.00
			<i>For Work In Restricted Working Space, Add</i>	18.00	
			<i>For Elevated Installation >10' To 15', Add</i>	6.00	
			<i>For Elevated Installation >15' To 20', Add</i>	12.00	
			<i>For Elevated Installation >20' To 25', Add</i>	15.00	
			<i>For Elevated Installation >25' To 30', Add</i>	21.00	
			<i>For Elevated Installation >30' To 35', Add</i>	24.00	
			<i>For Elevated Installation >35' To 40', Add</i>	30.01	
			<i>For Elevated Installation >40', Add</i>	33.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.00	
26 05 33 13-2545	EA		3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	85.43	27.50
			<i>For Work In Restricted Working Space, Add</i>	20.63	
			<i>For Elevated Installation >10' To 15', Add</i>	6.88	
			<i>For Elevated Installation >15' To 20', Add</i>	13.75	
			<i>For Elevated Installation >20' To 25', Add</i>	17.19	
			<i>For Elevated Installation >25' To 30', Add</i>	24.07	
			<i>For Elevated Installation >30' To 35', Add</i>	27.50	
			<i>For Elevated Installation >35' To 40', Add</i>	34.38	
			<i>For Elevated Installation >40', Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.63	
26 05 33 13-2546	EA		1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	99.64	31.50
			<i>For Work In Restricted Working Space, Add</i>	23.63	
			<i>For Elevated Installation >10' To 15', Add</i>	7.88	
			<i>For Elevated Installation >15' To 20', Add</i>	15.75	
			<i>For Elevated Installation >20' To 25', Add</i>	19.69	
			<i>For Elevated Installation >25' To 30', Add</i>	27.57	
			<i>For Elevated Installation >30' To 35', Add</i>	31.50	
			<i>For Elevated Installation >35' To 40', Add</i>	39.38	
			<i>For Elevated Installation >40', Add</i>	43.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.63	
26 05 33 13-2547	EA		1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	131.85	36.50
			<i>For Work In Restricted Working Space, Add</i>	27.38	
			<i>For Elevated Installation >10' To 15', Add</i>	9.13	
			<i>For Elevated Installation >15' To 20', Add</i>	18.25	
			<i>For Elevated Installation >20' To 25', Add</i>	22.82	
			<i>For Elevated Installation >25' To 30', Add</i>	31.94	
			<i>For Elevated Installation >30' To 35', Add</i>	36.51	
			<i>For Elevated Installation >35' To 40', Add</i>	45.64	
			<i>For Elevated Installation >40', Add</i>	50.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.38	
26 05 33 13-2548	EA		1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	152.88	40.00
			<i>For Work In Restricted Working Space, Add</i>	30.00	
			<i>For Elevated Installation >10' To 15', Add</i>	10.00	
			<i>For Elevated Installation >15' To 20', Add</i>	20.00	
			<i>For Elevated Installation >20' To 25', Add</i>	25.00	
			<i>For Elevated Installation >25' To 30', Add</i>	35.00	
			<i>For Elevated Installation >30' To 35', Add</i>	40.00	
			<i>For Elevated Installation >35' To 40', Add</i>	50.01	
			<i>For Elevated Installation >40', Add</i>	55.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2549 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	196.10	48.01
For Work In Restricted Working Space, Add	36.01	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.01	
For Elevated Installation >25' To 30', Add	42.01	
For Elevated Installation >30' To 35', Add	48.01	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.01	
26 05 33 13-2550 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	447.23	126.64
For Work In Restricted Working Space, Add	94.94	
For Elevated Installation >10' To 15', Add	31.65	
For Elevated Installation >15' To 20', Add	63.29	
For Elevated Installation >20' To 25', Add	79.12	
For Elevated Installation >25' To 30', Add	110.76	
For Elevated Installation >30' To 35', Add	126.58	
For Elevated Installation >35' To 40', Add	158.23	
For Elevated Installation >40', Add	174.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.94	
26 05 33 13-2551 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	411.93	90.01
For Work In Restricted Working Space, Add	67.51	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	45.01	
For Elevated Installation >20' To 25', Add	56.26	
For Elevated Installation >25' To 30', Add	78.76	
For Elevated Installation >30' To 35', Add	90.02	
For Elevated Installation >35' To 40', Add	112.52	
For Elevated Installation >40', Add	123.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.51	
26 05 33 13-2552 EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	651.90	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2553 EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	763.78	137.02
For Work In Restricted Working Space, Add	102.76	
For Elevated Installation >10' To 15', Add	34.25	
For Elevated Installation >15' To 20', Add	68.51	
For Elevated Installation >20' To 25', Add	85.63	
For Elevated Installation >25' To 30', Add	119.89	
For Elevated Installation >30' To 35', Add	137.01	
For Elevated Installation >35' To 40', Add	171.27	
For Elevated Installation >40', Add	188.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.76	
26 05 33 13-2554 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2509)</small>		
26 05 33 13-2555 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	98.76	31.50
For Work In Restricted Working Space, Add	23.63	
For Elevated Installation >10' To 15', Add	7.88	
For Elevated Installation >15' To 20', Add	15.75	
For Elevated Installation >20' To 25', Add	19.69	
For Elevated Installation >25' To 30', Add	27.57	
For Elevated Installation >30' To 35', Add	31.50	
For Elevated Installation >35' To 40', Add	39.38	
For Elevated Installation >40', Add	43.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.63	
26 05 33 13-2556 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	108.26	35.01
For Work In Restricted Working Space, Add	26.25	
For Elevated Installation >10' To 15', Add	8.75	
For Elevated Installation >15' To 20', Add	17.50	
For Elevated Installation >20' To 25', Add	21.88	
For Elevated Installation >25' To 30', Add	30.63	
For Elevated Installation >30' To 35', Add	35.00	
For Elevated Installation >35' To 40', Add	43.76	
For Elevated Installation >40', Add	48.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.25	
26 05 33 13-2557 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	124.74	38.51
For Work In Restricted Working Space, Add	28.88	
For Elevated Installation >10' To 15', Add	9.63	
For Elevated Installation >15' To 20', Add	19.25	
For Elevated Installation >20' To 25', Add	24.07	
For Elevated Installation >25' To 30', Add	33.69	
For Elevated Installation >30' To 35', Add	38.51	
For Elevated Installation >35' To 40', Add	48.14	
For Elevated Installation >40', Add	52.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.88	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2558 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	147.61	44.01
For Work In Restricted Working Space, Add	33.01	
For Elevated Installation >10' To 15', Add	11.00	
For Elevated Installation >15' To 20', Add	22.00	
For Elevated Installation >20' To 25', Add	27.51	
For Elevated Installation >25' To 30', Add	38.51	
For Elevated Installation >30' To 35', Add	44.01	
For Elevated Installation >35' To 40', Add	55.01	
For Elevated Installation >40', Add	60.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.01	
26 05 33 13-2559 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	169.06	48.01
For Work In Restricted Working Space, Add	36.00	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.00	
For Elevated Installation >25' To 30', Add	42.00	
For Elevated Installation >30' To 35', Add	48.00	
For Elevated Installation >35' To 40', Add	60.01	
For Elevated Installation >40', Add	66.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.00	
26 05 33 13-2560 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	232.91	59.00
For Work In Restricted Working Space, Add	44.26	
For Elevated Installation >10' To 15', Add	14.75	
For Elevated Installation >15' To 20', Add	29.50	
For Elevated Installation >20' To 25', Add	36.88	
For Elevated Installation >25' To 30', Add	51.63	
For Elevated Installation >30' To 35', Add	59.01	
For Elevated Installation >35' To 40', Add	73.76	
For Elevated Installation >40', Add	81.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.26	
26 05 33 13-2561 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	368.74	86.51
For Work In Restricted Working Space, Add	64.88	
For Elevated Installation >10' To 15', Add	21.63	
For Elevated Installation >15' To 20', Add	43.26	
For Elevated Installation >20' To 25', Add	54.07	
For Elevated Installation >25' To 30', Add	75.70	
For Elevated Installation >30' To 35', Add	86.51	
For Elevated Installation >35' To 40', Add	108.14	
For Elevated Installation >40', Add	118.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.88	
26 05 33 13-2562 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	534.63	112.51
For Work In Restricted Working Space, Add	84.38	
For Elevated Installation >10' To 15', Add	28.13	
For Elevated Installation >15' To 20', Add	56.26	
For Elevated Installation >20' To 25', Add	70.32	
For Elevated Installation >25' To 30', Add	98.45	
For Elevated Installation >30' To 35', Add	112.51	
For Elevated Installation >35' To 40', Add	140.64	
For Elevated Installation >40', Add	154.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.38	
26 05 33 13-2563 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	785.65	139.01
For Work In Restricted Working Space, Add	104.26	
For Elevated Installation >10' To 15', Add	34.75	
For Elevated Installation >15' To 20', Add	69.51	
For Elevated Installation >20' To 25', Add	86.89	
For Elevated Installation >25' To 30', Add	121.64	
For Elevated Installation >30' To 35', Add	139.02	
For Elevated Installation >35' To 40', Add	173.77	
For Elevated Installation >40', Add	191.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.26	
26 05 33 13-2564 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover.....	882.71	167.02
For Work In Restricted Working Space, Add	125.27	
For Elevated Installation >10' To 15', Add	41.76	
For Elevated Installation >15' To 20', Add	83.51	
For Elevated Installation >20' To 25', Add	104.39	
For Elevated Installation >25' To 30', Add	146.14	
For Elevated Installation >30' To 35', Add	167.02	
For Elevated Installation >35' To 40', Add	208.78	
For Elevated Installation >40', Add	229.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	125.27	
26 05 33 13-2565 Set Screw, Cast Aluminum Conduit Body <small>(26 05 33 13-2452)</small>		
26 05 33 13-2566 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2565)</small>		
26 05 33 13-2567 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	33.24	9.50
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2568 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	42.65	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-2569 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	57.17	15.50
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.57	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	
26 05 33 13-2570 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	73.69	19.00
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.25	
26 05 33 13-2571 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	95.72	22.00
For Work In Restricted Working Space, Add	16.50	
For Elevated Installation >10' To 15', Add	5.50	
For Elevated Installation >15' To 20', Add	11.00	
For Elevated Installation >20' To 25', Add	13.75	
For Elevated Installation >25' To 30', Add	19.25	
For Elevated Installation >30' To 35', Add	22.00	
For Elevated Installation >35' To 40', Add	27.50	
For Elevated Installation >40', Add	30.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-2572 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	125.18	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-2573 Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With		
Cover <small>(26 05 33 13-2565)</small>		
26 05 33 13-2574 EA 1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	33.50	9.50
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-2575 EA 3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	43.65	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-2576 EA 1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	53.68	15.50
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.57	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	

26 Electrical

26 05 Common Work Results for Electrical

26 05 33 Raceway and Boxes for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2577	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.39 14.25 4.75 9.50 11.88 16.63 19.00 23.76 26.13 14.25	19.00
26 05 33	13-2578	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.93 16.50 5.50 11.00 13.75 19.25 22.00 27.50 30.25 16.50	22.00
26 05 33	13-2579	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.69 18.75 6.25 12.50 15.63 21.88 25.00 31.26 34.38 18.75	25.01
26 05 33 13-2580 Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ⁽²⁶					
26 05 33	13-2581	EA	^{05 33 13-2585} 1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.19 9.38 3.13 6.25 7.81 10.94 12.50 15.63 17.19 9.38	12.50
26 05 33	13-2582	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.97 11.63 3.88 7.75 9.69 13.57 15.50 19.38 21.32 11.63	15.50
26 05 33	13-2583	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.63 14.25 4.75 9.50 11.88 16.63 19.00 23.76 26.13 14.25	19.00
26 05 33	13-2584	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.24 17.25 5.75 11.50 14.38 20.13 23.00 28.76 31.63 17.25	22.00
26 05 33	13-2585	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.29 20.25 6.75 13.50 16.88 23.63 27.00 33.76 37.13 20.25	25.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2586 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover.....	155.74	28.00
For Work In Restricted Working Space, Add	23.25	
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.38	
For Elevated Installation >25' To 30', Add	27.13	
For Elevated Installation >30' To 35', Add	31.00	
For Elevated Installation >35' To 40', Add	38.76	
For Elevated Installation >40', Add	42.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.25	
26 05 33 13-2587 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05		
<small>33 13-2565)</small>		
26 05 33 13-2588 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	34.35	9.50
For Work In Restricted Working Space, Add	7.13	
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-2589 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	45.88	12.50
For Work In Restricted Working Space, Add	9.38	
For Elevated Installation >10' To 15', Add	3.13	
For Elevated Installation >15' To 20', Add	6.25	
For Elevated Installation >20' To 25', Add	7.81	
For Elevated Installation >25' To 30', Add	10.94	
For Elevated Installation >30' To 35', Add	12.50	
For Elevated Installation >35' To 40', Add	15.63	
For Elevated Installation >40', Add	17.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.38	
26 05 33 13-2590 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	58.43	15.50
For Work In Restricted Working Space, Add	11.63	
For Elevated Installation >10' To 15', Add	3.88	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.57	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.38	
For Elevated Installation >40', Add	21.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.63	
26 05 33 13-2591 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	75.20	19.00
For Work In Restricted Working Space, Add	14.25	
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.50	
For Elevated Installation >20' To 25', Add	11.88	
For Elevated Installation >25' To 30', Add	16.63	
For Elevated Installation >30' To 35', Add	19.00	
For Elevated Installation >35' To 40', Add	23.76	
For Elevated Installation >40', Add	26.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.25	
26 05 33 13-2592 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	90.97	22.00
For Work In Restricted Working Space, Add	16.50	
For Elevated Installation >10' To 15', Add	5.50	
For Elevated Installation >15' To 20', Add	11.00	
For Elevated Installation >20' To 25', Add	13.75	
For Elevated Installation >25' To 30', Add	19.25	
For Elevated Installation >30' To 35', Add	22.00	
For Elevated Installation >35' To 40', Add	27.50	
For Elevated Installation >40', Add	30.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-2593 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	134.35	25.01
For Work In Restricted Working Space, Add	18.75	
For Elevated Installation >10' To 15', Add	6.25	
For Elevated Installation >15' To 20', Add	12.50	
For Elevated Installation >20' To 25', Add	15.63	
For Elevated Installation >25' To 30', Add	21.88	
For Elevated Installation >30' To 35', Add	25.00	
For Elevated Installation >35' To 40', Add	31.26	
For Elevated Installation >40', Add	34.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.75	
26 05 33 13-2594 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart		
Pathways) (26 05 33 13-2452)		
26 05 33 13-2595 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120)	149.61	27.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 05 33 13-2596 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250)	525.42	50.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.99	
26 05 33 13-2597 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400).....	1,014.16	102.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.07	

26 Electrical
26 05 Common Work Results for Electrical
26 05 33 Raceway and Boxes for Electrical Systems



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2598 Replacement Covers And Gaskets For Conduit Body <small>(26 05 33 13-2452)</small>					
26 05 33 13-2599 Replacement Stamped Aluminum Conduit Body Cover <small>(26 05 33 13-2598)</small>					
26 05 33	EA	1/2" Replacement Stamped Aluminum Conduit Body Cover	12.42		4.87
26 05 33	EA	3/4" Replacement Stamped Aluminum Conduit Body Cover	15.11		5.69
26 05 33	EA	1" Replacement Stamped Aluminum Conduit Body Cover	19.36		7.32
26 05 33	EA	1-1/4" Replacement Stamped Aluminum Conduit Body Cover	23.59		8.94
26 05 33	EA	1-1/2" Replacement Stamped Aluminum Conduit Body Cover	28.86		10.56
26 05 33	EA	2" Replacement Stamped Aluminum Conduit Body Cover	34.10		12.19
26 05 33	EA	2-1/2" Replacement Stamped Aluminum Conduit Body Cover	44.47		13.81
26 05 33	EA	3" Replacement Stamped Aluminum Conduit Body Cover	58.11		19.50
26 05 33	EA	3-1/2" Replacement Stamped Aluminum Conduit Body Cover	63.15		21.94
26 05 33	EA	4" Replacement Stamped Aluminum Conduit Body Cover	79.53		27.63
26 05 33 13-2610 Replacement Cast Steel Conduit Body Cover <small>(26 05 33 13-2598)</small>					
26 05 33	EA	1/2" Replacement Cast Steel Conduit Body Cover	14.24		4.87
26 05 33	EA	3/4" Replacement Cast Steel Conduit Body Cover	16.70		5.69
26 05 33	EA	1" Replacement Cast Steel Conduit Body Cover	23.27		7.32
26 05 33	EA	1-1/4" Replacement Cast Steel Conduit Body Cover	28.88		8.94
26 05 33	EA	1-1/2" Replacement Cast Steel Conduit Body Cover	35.02		10.56
26 05 33	EA	2" Replacement Cast Steel Conduit Body Cover	41.16		12.19
26 05 33	EA	2-1/2" Replacement Cast Steel Conduit Body Cover	47.26		13.81
26 05 33	EA	3" Replacement Cast Steel Conduit Body Cover	64.73		19.50
26 05 33	EA	3-1/2" Replacement Cast Steel Conduit Body Cover	73.57		21.94
26 05 33	EA	4" Replacement Cast Steel Conduit Body Cover	92.71		27.63
26 05 33 13-2621 Replacement Velbuna Composition Conduit Body Gasket <small>(26 05 33 13-2598)</small>					
26 05 33	EA	1/2" Replacement Velbuna Composition Conduit Body Gasket	11.60		4.87
26 05 33	EA	3/4" Replacement Velbuna Composition Conduit Body Gasket	13.29		5.69
26 05 33	EA	1" Replacement Velbuna Composition Conduit Body Gasket	17.33		7.32
26 05 33	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket	22.36		8.94
26 05 33	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket	25.61		10.56
26 05 33	EA	2" Replacement Velbuna Composition Conduit Body Gasket	30.35		12.19
26 05 33	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket	39.33		13.81
26 05 33	EA	3" Replacement Velbuna Composition Conduit Body Gasket	51.70		19.50
26 05 33	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket	57.07		21.94
26 05 33	EA	4" Replacement Velbuna Composition Conduit Body Gasket	68.31		27.63
26 05 33 13-2632 Replacement Neoprene Conduit Body Gasket <small>(26 05 33 13-2598)</small>					
26 05 33	EA	1/2" Replacement Neoprene Conduit Body Gasket	12.87		4.87
26 05 33	EA	3/4" Replacement Neoprene Conduit Body Gasket	14.50		5.69
26 05 33	EA	1" Replacement Neoprene Conduit Body Gasket	18.91		7.32
26 05 33	EA	1-1/4" Replacement Neoprene Conduit Body Gasket	23.16		8.94
26 05 33	EA	1-1/2" Replacement Neoprene Conduit Body Gasket	26.41		10.56
26 05 33	EA	2" Replacement Neoprene Conduit Body Gasket	30.43		12.19
26 05 33	EA	2-1/2" Replacement Neoprene Conduit Body Gasket	39.53		13.81
26 05 33	EA	3" Replacement Neoprene Conduit Body Gasket	51.90		19.50
26 05 33	EA	3-1/2" Replacement Neoprene Conduit Body Gasket	58.42		21.94
26 05 33	EA	4" Replacement Neoprene Conduit Body Gasket	69.66		27.63
26 05 33 16 Boxes for Electrical Systems <small>(26 05 33)</small>					
See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.					
26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers <small>(26 05 33 16)</small>					
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0134 for steel box/switch assemblies.					
26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers <small>(26 05 33 16-0001)</small>					
26 05 33	EA	1-1/2" Depth, 4" Square Steel Box	45.10		20.52
		For Stud Bracket, Add	0.99		
26 05 33	EA	2-1/8" Depth, 4" Square Steel Box	46.93		20.52
		For Stud Bracket, Add	1.78		
26 05 33	EA	3-1/2" Depth, 4" Square Steel Box	53.24		20.52
		For Stud Bracket, Add	1.94		
26 05 33	EA	1-1/2" Depth, 4" Square Steel Extension Ring	36.35		13.69
26 05 33	EA	2-1/8" Depth, 4" Square Steel Extension Ring	29.97		13.69
26 05 33	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	15.62		6.84
26 05 33	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring	15.91		6.84
26 05 33	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring	16.12		6.84
26 05 33	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring	16.81		6.84
26 05 33	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring	17.01		6.84
26 05 33	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring	19.19		6.84
26 05 33	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring	16.45		6.84
26 05 33	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring	16.66		6.84
26 05 33	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring	16.92		6.84
26 05 33	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring	19.15		6.84
26 05 33	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring	19.61		6.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	22.45	6.84
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	17.53	6.84
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	19.34	6.84
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	16.41	6.84
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	16.58	6.84
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	16.37	6.84
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	16.85	6.84
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	17.26	6.84
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	17.19	6.84
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	17.19	6.84
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.36	6.84
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	22.26	6.84
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	14.98	6.84
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	51.90	20.52
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	47.74	20.52
<i>For Stud Bracket, Add</i>	<i>0.94</i>	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	68.62	20.52
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	38.09	13.69
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	39.11	13.69
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.77	6.84
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	19.82	6.84
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	21.60	6.84
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	20.89	6.84
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	20.73	6.84
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	28.10	6.84
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.19	6.84
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.57	6.84
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	21.60	6.84
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.20	6.84
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.75	6.84
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	31.06	6.84
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	20.84	6.84
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	21.03	6.84
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	25.92	6.84
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	27.29	6.84
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	25.52	6.84
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	24.03	6.84
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	29.02	6.84
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	27.28	6.84
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	16.10	6.84
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	22.41	10.27
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	16.59	6.85
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	26.84	10.27
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	29.12	10.27
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box.....	37.52	17.10
<i>For Stud Bracket, Add</i>	<i>2.41</i>	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box.....	39.13	17.10
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover.....	14.88	6.84
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring.....	62.00	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	65.93	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring.....	68.98	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring.....	71.93	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring.....	79.09	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring.....	86.53	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring.....	92.21	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover.....	17.09	6.84
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	60.29	17.10
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	66.34	18.48
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....	80.40	20.52

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		106.51	22.57
26 05 33 16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box.....		161.29	24.63
26 05 33 16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		85.12	17.10
26 05 33 16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		92.80	18.48
26 05 33 16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		125.08	20.52
26 05 33 16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		162.06	22.57
26 05 33 16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box.....		271.13	24.63
26 05 33 16-0093	EA	2 Device, Gang Box Mud Ring.....		26.60	6.84
26 05 33 16-0094	EA	3 Device, Gang Box Mud Ring.....		27.02	6.84
26 05 33 16-0095	EA	4 Device, Gang Box Mud Ring.....		31.81	6.84
26 05 33 16-0096	EA	5 Device, Gang Box Mud Ring.....		40.03	6.84
26 05 33 16-0097	EA	6 Device, Gang Box Mud Ring.....		58.07	6.84
26 05 33 16-0098	EA	2 Device, Gang Box Flat Cover.....		22.49	6.84
26 05 33 16-0099	EA	3 Device, Gang Box Flat Cover.....		26.97	6.84
26 05 33 16-0100	EA	4 Device, Gang Box Flat Cover.....		32.92	6.84
26 05 33 16-0101	EA	5 Device, Gang Box Flat Cover.....		40.49	6.84
26 05 33 16-0102	EA	6 Device, Gang Box Flat Cover.....		59.35	6.84
26 05 33 16-0103		Steel Switch Boxes <small>(26 05 33 16-0001)</small>			
26 05 33 16-0104	EA	2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....		40.62	17.10
26 05 33 16-0105	EA	2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....		41.31	17.10
26 05 33 16-0106	EA	3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box.....		44.90	17.10
26 05 33 16-0107	EA	2-1/2" Depth, 2 Device, Stud Bracket, Steel Box.....		52.95	17.10
26 05 33 16-0108	EA	2-1/2" Depth, 3 Device, Stud Bracket, Steel Box.....		53.65	17.10
26 05 33 16-0109	EA	2-1/2" Depth, 4 Device, Stud Bracket, Steel Box.....		64.57	17.10
26 05 33 16-0110		4" x 2" Steel Handy Boxes, Extension Rings And Covers <small>(26 05 33 16-0001)</small>			
26 05 33 16-0111	EA	1-1/2" Deep, 4" x 2" Steel Handy Box.....		37.35	17.10
		<i>For Stud Bracket, Add</i>		3.88	
26 05 33 16-0112	EA	1-7/8" Deep, 4" x 2" Steel Handy Box.....		38.09	17.10
		<i>For Stud Bracket, Add</i>		1.67	
26 05 33 16-0113	EA	2-1/8" Deep, 4" x 2" Steel Handy Box.....		39.74	17.10
		<i>For Stud Bracket, Add</i>		2.28	
26 05 33 16-0114	EA	1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....		25.03	10.26
26 05 33 16-0115	EA	1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....		24.28	10.26
26 05 33 16-0116	EA	GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover.....		8.47	3.42
26 05 33 16-0117	EA	1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....		8.61	3.42
26 05 33 16-0118	EA	Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....		7.91	3.42
26 05 33 16-0119	EA	Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....		7.95	3.42
26 05 33 16-0120	EA	1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover.....		9.37	3.42
26 05 33 16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover.....		7.95	3.42
26 05 33 16-0122		3"-1/2" Depth, 3-3/4" Steel Masonry Boxes <small>(26 05 33 16-0001)</small>			
26 05 33 16-0123	EA	1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....		56.62	23.95
26 05 33 16-0124	EA	2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....		63.80	25.31
26 05 33 16-0125	EA	3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....		73.63	27.36
26 05 33 16-0126	EA	4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box.....		84.21	30.10
26 05 33 16-0127		Cast Boxes <small>(26 05 33 16)</small>			
		<i>Note: For flush or surface mount.</i>			
26 05 33 16-0128		Cast Iron Alloy Boxes <small>(26 05 33 16-0127)</small>			
		<i>See CSI section 26 27 26 00-0271 for box covers.</i>			
26 05 33 16-0129		Shallow, Single Gang Cast Iron Alloy Boxes <small>(26 05 33 16-0128)</small>			
		<i>Note: Up to 2" deep boxes.</i>			
26 05 33 16-0130	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....		107.78	41.05
		<i>Note: One hub.</i>			
26 05 33 16-0131	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....		118.10	47.89
		<i>Note: One hub.</i>			
26 05 33 16-0132	EA	1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box.....		140.03	58.15
		<i>Note: One hub.</i>			
26 05 33 16-0133	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....		136.57	54.73
		<i>Note: Two hub.</i>			
26 05 33 16-0134	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box.....		171.87	65.00
		<i>Note: Two hub.</i>			
26 05 33 16-0135	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....		136.13	54.73
		<i>Note: Two hub.</i>			
26 05 33 16-0136	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box.....		163.25	65.00
		<i>Note: Two hubs.</i>			
26 05 33 16-0137	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....		138.90	54.73
		<i>Note: Two hubs.</i>			
26 05 33 16-0138	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box.....		163.28	65.00
		<i>Note: Two hubs.</i>			
26 05 33 16-0139	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....		136.13	54.73
		<i>Note: Two hubs.</i>			
26 05 33 16-0140	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box.....		159.86	65.00
		<i>Note: Two hubs.</i>			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	163.95	68.41
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	194.64	82.10
26 05 33 16-0143 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	169.27	68.41
26 05 33 16-0144 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	214.92	82.10
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	172.74	68.41
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	206.58	82.10
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	163.50	68.41
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	208.93	82.10
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	205.62	82.10
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	248.16	99.20
26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	111.70	41.05
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	128.97	47.89
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	152.57	58.15
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	143.72	54.73
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	166.93	65.00
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	200.95	78.67
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	176.69	65.00
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	226.48	82.10
26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	126.93	44.47
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	141.77	51.31
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	165.78	61.57
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	156.19	58.15
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	178.72	68.41
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	138.69	44.47
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	152.83	51.31
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	173.88	58.15
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	197.41	68.41
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0271 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	94.09	34.21
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	108.81	41.05
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	124.09	51.31
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	89.53	34.21
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	112.02	41.05

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	121.90	47.89
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	146.80	58.15
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	183.57	71.83
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	129.84	47.89
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	142.94	58.15
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	125.32	47.89
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	145.63	58.15
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	122.41	47.89
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	145.63	58.15
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	115.68	47.89
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box Note: Two hubs.	152.79	58.15
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	147.68	61.57
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	179.68	75.26
26 05 33 16-0191 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	154.66	61.57
26 05 33 16-0192 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	203.85	75.26
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	154.07	61.57
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	188.87	75.26
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box Note: Three hubs.	190.95	75.26
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	187.97	75.26
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box Note: Four hubs.	229.72	92.36
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	102.18	34.21
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	122.46	41.05
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box Note: One hub.	142.86	51.31
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	129.85	41.05
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	132.36	47.89
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	159.65	58.15
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	182.37	71.83
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	161.36	58.15
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	199.66	75.26
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	120.36	37.62
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	138.60	44.47
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	152.75	54.73
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	152.83	51.31
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	161.05	61.57
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	198.48	75.26
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	120.27	37.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	139.70	44.47
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	155.36	51.31
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	177.96	61.57
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	155.36	51.31
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	177.96	61.57
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	163.55	54.73
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	185.50	65.00
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	178.33	47.89
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	201.46	58.15
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies <small>(26 05 33 16-0127)</small> Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	187.43	54.73
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	228.84	61.57
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	216.01	68.41
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body.....	208.21	61.57
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA.....	250.19	68.41
26 05 33 16-0234 Non Metallic (PVC) Boxes <small>(26 05 33 16)</small> See CSI section 26 27 26 00-0271 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	68.04	28.74
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	77.95	33.53
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	89.54	40.71
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	87.53	38.32
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	102.98	45.50
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	124.88	55.07
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	87.81	38.32
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	102.23	45.50
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	122.32	55.07
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	110.75	47.89
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	126.94	57.46
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box..... Note: Three hubs.	150.01	69.44
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	68.86	28.74
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	67.42	28.74
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	79.91	33.53
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	90.34	40.71
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	89.15	38.32
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	100.86	45.50
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	120.75	55.07

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0256		Shallow, Two Gang Non Metallic (PVC) Boxes <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	73.26	31.13
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	83.99	35.92
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box..... Note: One hub.	94.48	43.10
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	90.52	40.71
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	111.29	47.89
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	131.89	57.46
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	92.44	40.71
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	116.60	47.89
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Two hubs.	127.64	57.46
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	113.16	50.29
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	147.22	59.86
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box..... Note: Three hubs.	154.67	71.83
26 05 33 16-0269		Poke Thru Units <small>(26 05 33 16)</small>		
26 05 33 16-0270		Surface Poke Thru Units <small>(26 05 33 16-0269)</small>		
		Note: Excludes concrete drilling.		
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	613.87	51.31
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	392.07	
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3REC.	54.14	13.69
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC3APTCBK.	65.74	6.84
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	694.39	54.73
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	367.03	
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	92.91	20.52
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	65.74	6.84
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	191.76	13.69
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	549.33	47.89
26 05 33 16-0281	EA	Abandonment Plate For RC9 Series Communications Poke Thru Unit Note: Wiremold RC9APTCBK.	45.62	6.84
26 05 33 16-0282	EA	Eight Jack AMD8 Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	546.79	47.89
26 05 33 16-0283	EA	Communication Conduit Adapter For Poke Thru Units Note: Includes two conduit connections for communication systems. Wiremold COM75.	63.54	6.84
26 05 33 16-0284		Recessed Poke Thru Units <small>(26 05 33 16-0289)</small>		
		Note: Excludes concrete drilling.		
26 05 33 16-0285		Evolution 6AT Poke Thru Units <small>(26 05 33 16-0284)</small>		
		Note: Excludes concrete drilling.		
26 05 33 16-0286	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
26 05 33 16-0287	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.45	54.73



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0288	EA	Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	787.59	54.73
26 05 33 16-0289	EA	Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	787.59	54.73
26 05 33 16-0290	EA	Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
26 05 33 16-0291	EA	Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	825.35	54.73
26 05 33 16-0292	EA	Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	755.62	54.73
26 05 33 16-0293	EA	Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	479.96	51.31
26 05 33 16-0294	EA	Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	513.36	51.31
26 05 33 16-0295	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	516.67	51.31
26 05 33 16-0296	EA	6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	151.14	27.36
26 05 33 16-0297	EA	Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	329.59	13.69
26 05 33 16-0298	EA	Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	329.59	13.69
26 05 33 16-0299	EA	Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	274.82	13.69
26 05 33 16-0300	EA	Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	40.28	3.42
26 05 33 16-0301	EA	Device Mounting Plate (Wiremold 6AAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	21.63	6.84
26 05 33 16-0302	EA	Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	24.60	6.84
26 05 33 16-0303	EA	Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	21.55	6.84
26 05 33 16-0304	EA	Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	21.60	6.84
26 05 33 16-0305	EA	Device Mounting Plate (Wiremold 6DP)..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	21.48	6.84
26 05 33 16-0306	EA	Device Mounting Plate (Wiremold 6MAAP)..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	24.91	6.84
26 05 33 16-0307	EA	Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	24.67	6.84
26 05 33 16-0308	EA	Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	25.21	6.84
26 05 33 16-0309	EA	Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	21.19	6.84
26 05 33 16-0310	EA	Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	21.21	6.84
26 05 33 16-0311	EA	Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	20.95	6.84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	20.95	6.84
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	48.18	10.26
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	19.39	6.84
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	19.81	6.84
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	144.28	12.31
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	24.40	6.84
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	25.33	6.84
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	25.98	6.84
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	41.04	13.69
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	47.55	17.10
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	51.80	17.10
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	39.61	13.69
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	25.17	6.84
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	25.17	6.84
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	26.39	6.84
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	27.22	6.84
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	1,076.54	54.73
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	1,025.58	54.73
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	1,088.08	54.73
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	1,015.99	54.73
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	1,006.90	54.73
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	614.80	51.31
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	686.58	51.31
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	179.15	27.36
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	356.02	13.69
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	356.02	13.69
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	62.08	3.42
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B) Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	22.27	6.84
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP) Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	22.38	6.84
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCLs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	22.51	6.84
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	25.69	6.84
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	30.60	6.84
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST) Note: Device plate accepts Crestron double-gang decorator style devices.	30.55	6.84
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1) Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	21.67	6.84
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	21.92	6.84
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.67	6.84
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.67	6.84
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP) Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	30.16	6.84
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP) Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	25.55	6.84
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	29.08	6.84
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	41.04	13.69
26 05 33 23 Surface Raceways for Electrical Systems (26 05 33)		
26 05 33 23-0001 Raceways (26 05 33 23)		
26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001) Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface.		
26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0004 LF 2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	24.99 0.62 0.63	6.25
26 05 33 23-0005 EA 2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover..... For Combination Hinged Screw Cover, Add	23.28 0.23	9.38
26 05 33 23-0006 EA 2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	27.91 0.23	11.69
26 05 33 23-0007 EA 2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover..... For Combination Hinged Screw Cover, Add	57.04 0.66	21.88
26 05 33 23-0008 EA 2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	83.49 1.99	21.88
26 05 33 23-0009 EA 2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	122.83 3.03	31.13
26 05 33 23-0010 EA 2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	137.57 3.44	34.38
26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)		
26 05 33 23-0012 LF 4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	30.71 0.75 0.78	7.88
26 05 33 23-0013 LF 4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	51.23 1.78 0.78	7.88
26 05 33 23-0014 EA 4" x 4", End Plate For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	18.48 0.24	6.88
26 05 33 23-0015 EA 4" x 4", Coupling For Surface Mounted Wireway With Screw Cover For Combination Hinged Screw Cover, Add	30.98 0.24	13.13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0016	EA		4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	67.96 0.72	26.75
26 05 33 23-0017	EA		4" x 4", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	97.04 2.17	26.75
26 05 33 23-0018	EA		4" x 4", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	135.44 3.29	34.76
26 05 33 23-0019	EA		4" x 4", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	156.75 3.77	40.63
26 05 33 23-0020			6" x 6", Wireway With Screw Cover <small>(26 05 33 23-0002)</small>		
26 05 33 23-0021	LF		6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	44.46 1.28 0.94	9.38
26 05 33 23-0022	LF		6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	80.45 3.08 0.94	9.38
26 05 33 23-0023	EA		6" x 6", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	22.61 0.38	7.50
26 05 33 23-0024	EA		6" x 6", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	38.86 0.38	15.63
26 05 33 23-0025	EA		6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	91.69 1.48	31.13
26 05 33 23-0026	EA		6" x 6", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	122.40 3.01	31.13
26 05 33 23-0027	EA		6" x 6", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	185.97 5.42	38.88
26 05 33 23-0028	EA		6" x 6", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	203.43 5.67	45.00
26 05 33 23-0029			8" x 8", Wireway With Screw Cover <small>(26 05 33 23-0002)</small>		
26 05 33 23-0030	LF		8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	68.60 2.41 1.02	10.25
26 05 33 23-0031	LF		8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	119.84 4.97 1.02	10.25
26 05 33 23-0032	EA		8" x 8", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	24.82 0.43	8.13
26 05 33 23-0033	EA		8" x 8", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	42.32 0.43	16.88
26 05 33 23-0034	EA		8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	102.06 1.68	34.26
26 05 33 23-0035	EA		8" x 8", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	151.94 4.17	34.26
26 05 33 23-0036	EA		8" x 8", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	220.80 6.82	42.26
26 05 33 23-0037	EA		8" x 8", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	303.31 10.04	51.26
26 05 33 23-0038			10" x 10", Wireway With Screw Cover <small>(26 05 33 23-0002)</small>		
26 05 33 23-0039	LF		10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	97.69 3.69 1.19	11.88
26 05 33 23-0040	LF		10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	167.04 7.16 1.19	11.88
26 05 33 23-0041	EA		10" x 10", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	33.44 0.73	9.38
26 05 33 23-0042	EA		10" x 10", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	52.19 0.73	18.75
26 05 33 23-0043	EA		10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	130.75 2.81	37.25
26 05 33 23-0044	EA		10" x 10", Elbow For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	229.71 7.76	37.25
26 05 33 23-0045	EA		10" x 10", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	341.38 12.37	47.01
26 05 33 23-0046	EA		10" x 10", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	478.11 18.59	53.13
26 05 33 23-0047			12" x 12", Wireway With Screw Cover <small>(26 05 33 23-0002)</small>		
26 05 33 23-0048	LF		12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	114.98 4.31 1.44	14.37
26 05 33 23-0049	LF		12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	184.67 7.80 1.44	14.37
26 05 33 23-0050	EA		12" x 12", End Plate For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	42.46 1.12	10.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0051 EA 12" x 12", Coupling For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	62.47 1.12	20.00
26 05 33 23-0052 EA 12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	166.19 4.25	40.63
26 05 33 23-0053 EA 12" x 12", Elbow For Surface Mounted Wireway With Screw Cover..... <i>For Combination Hinged Screw Cover, Add</i>	297.24 10.80	40.63
26 05 33 23-0054 EA 12" x 12", Tee For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	381.80 14.09	50.00
26 05 33 23-0055 EA 12" x 12", Cross For Surface Mounted Wireway With Screw Cover <i>For Combination Hinged Screw Cover, Add</i>	605.89 24.67	56.26
26 05 33 23-0056 Surface Metal Raceways (26 05 33 23-0001) Note: Exposed on flat wall surface.		
26 05 33 23-0057 One Piece Surface Metal Raceways (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0058 3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500) (26 05 33 23-0057) Note: Available in ivory.		
26 05 33 23-0059 LF 3/4" x 17/32" One Piece Surface Metal Raceway (Wiremold #500)..... <i>For Concrete Or Masonry Surface, Add</i>	5.13 0.19	1.87
26 05 33 23-0060 EA Bushing (Wiremold #502)	5.33	2.50
26 05 33 23-0061 EA One Or Two Hole Strap (Wiremold #504).....	5.37	2.50
26 05 33 23-0062 EA Connection Cover (Wiremold #506).....	5.53	2.50
26 05 33 23-0063 EA Flat 90 Degree Elbow (Wiremold #511).....	8.04	3.00
26 05 33 23-0064 EA Flat 45 Degree Elbow (Wiremold #512).....	12.49	3.13
26 05 33 23-0065 EA Adjustable Internal Elbow (Wiremold #517).....	10.01	3.75
26 05 33 23-0066 EA Adjustable External Elbow (Wiremold #518).....	9.83	3.75
26 05 33 23-0067 3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700) (26 05 33 23-0057) Note: Available in ivory and white.		
26 05 33 23-0068 LF 3/4" x 21/32" One Piece Surface Metal Raceway (Wiremold #700)..... <i>For Concrete Or Masonry Surface, Add</i>	6.52 0.25	2.50
26 05 33 23-0069 EA Bushing (Wiremold #702)	5.44	2.50
26 05 33 23-0070 EA One Or Two Hole Strap (Wiremold #704).....	5.57	2.50
26 05 33 23-0071 EA Connection Cover (Wiremold #706).....	5.59	2.50
26 05 33 23-0072 EA Flat 90 Degree Elbow (Wiremold #711).....	12.08	5.00
26 05 33 23-0073 EA Flat 45 Degree Elbow (Wiremold #712).....	17.62	5.00
26 05 33 23-0074 EA Adjustable Internal Elbow (Wiremold #717).....	12.85	5.00
26 05 33 23-0075 EA Adjustable External Elbow (Wiremold #718).....	12.50	5.00
26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700 Fittings) (26 05 33 23-0057) Note: Available in ivory.		
26 05 33 23-0077 EA 18" Flex Fitting, For #500 Or 700 (Wiremold #5700F)	30.61	3.75
26 05 33 23-0078 EA Galvanized Coupling For #500 Or 700 (Wiremold #5701)	5.54	2.50
26 05 33 23-0079 EA Supporting Clip, For #500 Or 700 (Wiremold #5703).....	5.54	2.50
26 05 33 23-0080 EA Ground Clamp (Wiremold #5709).....	14.38	3.75
26 05 33 23-0081 EA Grounding Connector (Wiremold #5709GC).....	12.42	3.75
26 05 33 23-0082 EA L Or R (Left Or Right) Twisted Internal Ell (Wiremold #5711).....	14.47	5.00
26 05 33 23-0083 EA Tee (Wiremold #5715)	16.58	6.25
26 05 33 23-0084 EA 2-1/2" x 2-3/8" x 2-1/2" Corner Box (Wiremold #5719)	25.99	5.00
26 05 33 23-0085 EA Utility Box For #500 Or #700 (Wiremold #57242)	20.56	5.00
26 05 33 23-0086 EA 2-3/8" Diameter, Blank Cover (Wiremold #5731)	11.26	3.13
26 05 33 23-0087 EA 3" Diameter, Outlet Box (Wiremold #5733).....	24.87	5.00
26 05 33 23-0088 EA 4-3/4" Square x 1-3/8" Deep, Distribution Box (Wiremold #5735).....	24.79	5.00
26 05 33 23-0089 EA 4-3/8" Blank Cover (Wiremold #5736)	11.85	3.13
26 05 33 23-0090 EA 4-3/4" Diameter, Extension Box/Open Base (Wiremold #5737).....	22.75	5.00
26 05 33 23-0091 EA 5-1/2" Diameter, Extension Box/Open Base (Wiremold #5737A)	22.04	5.00
26 05 33 23-0092 EA 4-3/4" Diameter, Fixture Box/Solid Base (Wiremold #5738)	22.20	5.00
26 05 33 23-0093 EA 5-1/2" Diameter, Fixture Box/Solid Base (Wiremold #5738A).....	22.20	5.00
26 05 33 23-0094 EA 5-1/2" Diameter, Fan Box/Solid Base (Wiremold #5738AF)	24.79	5.00
26 05 33 23-0095 EA 6-3/8" Diameter, Fixture Box/Solid Base (Wiremold #5739)	24.52	5.00
26 05 33 23-0096 EA 6-3/8" Diameter, Extension Box/Open Base (Wiremold #5739A)	26.00	5.00
26 05 33 23-0097 EA Standard Switch Box For #500, Or #700 (Wiremold #57240).....	30.53	8.13
26 05 33 23-0098 EA Duplex Receptacle And Box, Ground, For #500 Or #700 (Wiremold #57243G).....	49.60	15.63
26 05 33 23-0099 EA 2-13/16" x 4-5/8" x 1-3/8" Switch And Receptacle Box For Shallow Type Switches (Wiremold #5741)	24.00	8.13
26 05 33 23-0100 EA 1 Gang, 4-5/8" x 2-7/8" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744)	35.75	8.13
26 05 33 23-0101 EA 2 Gang, 4-3/4" x 4-3/4" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-2).....	40.41	8.13
26 05 33 23-0102 EA 3 Gang, 4-5/8" x 6-1/2" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-3).....	59.37	8.13
26 05 33 23-0103 EA 1 Gang, Signal Box (Wiremold #5744S)	32.15	6.88
26 05 33 23-0104 EA 2 Gang, Signal Box (Wiremold #5744S-2).....	35.51	6.88
26 05 33 23-0105 EA 3 Gang, Signal Box (Wiremold #5744S-3).....	55.00	6.88
26 05 33 23-0106 EA 4-5/8" x 2-7/8" x 1-3/4" Combination Switch And Receptacle Box With 1/2" KO's (Wiremold #5745).....	24.89	8.13
26 05 33 23-0107 EA 4-5/8" x 2-7/8" x 1-3/8", 1 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747)	22.35	8.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0108 EA 4-3/4" x 4-3/4" x 1-3/8", 2 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-2)	29.88	8.13
26 05 33 23-0109 EA 4-5/8" x 6-1/2" x 2-3/4", 3 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-3)	54.52	8.13
26 05 33 23-0110 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748)	23.63	8.13
26 05 33 23-0111 EA 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-2)	31.41	8.13
26 05 33 23-0112 EA 4-5/8" x 6-1/2" x 1-3/4", 3 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-3)	53.10	8.13
26 05 33 23-0113 EA 4-5/8" x 8-11/32" x 1-3/4", 4 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-4)	76.97	8.13
26 05 33 23-0114 EA 4-5/8" x 10-5/32" x 1-3/4", 5 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-5)	124.44	8.13
26 05 33 23-0115 EA 4-5/8" x 11-31/32" x 1-3/4", 6 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-6)	126.56	8.13
26 05 33 23-0116 EA 4-3/8" x 2-7/8" x 15/16" Shallow Switch And Receptacle Box For Shallow Duplex Devices (Wiremold #5748-S)	23.38	8.13
26 05 33 23-0117 EA 4-5/8" x 2-7/8" x 15/16", 1 Gang, Flush-Type Extension Adapter (Wiremold #5751)	22.84	8.13
26 05 33 23-0118 EA 4-3/4" x 4-3/4" x 15/16", 2 Gang, Flush-Type Extension Adapter (Wiremold #5751-2)	29.12	8.13
26 05 33 23-0119 EA 4-5/8" x 6-1/2" x 15/16", 3 Gang, Flush-Type Extension Adapter (Wiremold #5751-3)	53.58	8.13
26 05 33 23-0120 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Deep Flush-Type Extension Adapter (Wiremold #5751A)	24.38	8.13
26 05 33 23-0121 EA 4-11/16" x 4-11/16" x 1-3/8", 2 Gang, Alarm Device Box (Wiremold #5752)	30.44	8.13
26 05 33 23-0122 EA 4-11/16" x 4-11/16" x 2-3/4", 2 Gang, Extra Deep Alarm Device Box (Wiremold #5753)	42.17	8.13
26 05 33 23-0123 EA Blank Extension Box (Wiremold #5760)	14.79	3.13
26 05 33 23-0124 EA 1/2" Special Nipple (Wiremold #5780)	14.16	3.13
26 05 33 23-0125 EA 1/2" Box Connector (Wiremold #5781)	9.91	3.13
26 05 33 23-0126 EA 3/4" Box Connector (Wiremold #5781A)	17.69	3.75
26 05 33 23-0127 EA 1/2" Conduit Connector (Wiremold #5782)	9.98	3.13
26 05 33 23-0128 EA 3/4" Conduit Connector (Wiremold #5782A)	21.73	3.75
26 05 33 23-0129 EA 1/2" Elbow Conduit Connector (Wiremold #5784)	19.64	3.75
26 05 33 23-0130 EA Combination Connector, To Any 3-1/4" Or 4" Outlet Box (Wiremold #5785)	11.71	3.75
26 05 33 23-0131 EA Offset Connector (Wiremold #5786)	18.37	3.75
26 05 33 23-0132 EA Armor Cable Connector (Wiremold #5790B)	10.11	3.13
26 05 33 23-0133 EA 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700 (Wiremold #5791)	8.83	2.50
26 05 33 23-0134 1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500) (26 05 33 23-0057) Note: Galvanized finish.		
26 05 33 23-0135 LF 1-9/16" x 11/32" One Piece Surface Metal Raceway (Wiremold #1500-10)	9.16	3.13
For Concrete Or Masonry Surface, Add	0.31	
26 05 33 23-0136 EA Wire Clip (Wiremold #1500WC)	5.96	2.50
26 05 33 23-0137 EA Bushing (Wiremold #1502)	7.14	3.13
26 05 33 23-0138 EA 2-Hole Strap (Wiremold #1504)	8.18	3.75
26 05 33 23-0139 EA Flat Elbow (Wiremold #1511)	30.41	11.88
26 05 33 23-0140 EA Internal Elbow (Wiremold #1517)	31.23	11.88
26 05 33 23-0141 EA Adapter Fitting (Wiremold #1517B)	33.15	11.88
26 05 33 23-0142 EA External Elbow (Wiremold #1518)	32.99	11.88
26 05 33 23-0143 EA Utility Box (Wiremold #1528)	28.57	8.13
26 05 33 23-0144 EA Junction Box (Wiremold #1542D)	29.34	8.13
26 05 33 23-0145 EA Duplex Receptacle (Wiremold #1543GL)	57.34	15.63
26 05 33 23-0146 EA Single Receptacle Box (Wiremold #1546A)	30.10	8.13
26 05 33 23-0147 EA Duplex Receptacle Box (Wiremold #1546B)	35.96	8.13
26 05 33 23-0148 EA Telephone Box (Wiremold #1546T)	35.35	8.13
26 05 33 23-0149 EA Combination Connection (Wiremold #1585)	17.00	3.75
26 05 33 23-0150 2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600) (26 05 33 23-0057) Note: Galvanized finish.		
26 05 33 23-0151 LF 2-7/32" x 28/32" One Piece Surface Metal Raceway (Wiremold #2600-10)	15.80	5.62
For Concrete Or Masonry Surface, Add	0.56	
26 05 33 23-0152 EA Wire Clip (Wiremold #2600WC)	6.09	2.50
26 05 33 23-0153 EA Fiber Bushing (Wiremold #2602)	6.70	2.50
26 05 33 23-0154 EA 2-5/8", 90 Degree Flat Elbow (Wiremold #2611)	22.31	4.38
26 05 33 23-0155 EA 5" Diameter, Junction Box (Wiremold #2642D)	33.29	6.25
26 05 33 23-0156 EA Service Fitting (Wiremold #2686FO)	33.14	7.50
26 05 33 23-0157 Two Piece Surface Metal Raceways (26 05 33 23-0056) Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0158 1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000) (26 05 33 23- 0157)		
26 05 33 23-0159 LF 1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover (Wiremold #2000BC)	9.18	3.13
For Concrete Or Masonry Surface, Add	0.31	
26 05 33 23-0160 EA Wire Clip (Wiremold #2000WC)	4.51	2.50
26 05 33 23-0161 EA Coupling (Wiremold #2001)	12.20	3.13
26 05 33 23-0162 EA Supporting Clip (Wiremold #2003)	5.67	1.87
26 05 33 23-0163 EA Cover Clip (Wiremold #2006)	5.30	1.87
26 05 33 23-0164 EA Ground Clamp (Wiremold #2009)	13.26	3.13
26 05 33 23-0165 EA Entrance End Fitting (Wiremold #2010A2)	27.12	9.38
26 05 33 23-0166 EA Entrance End Fitting (Wiremold #2010A3)	45.39	12.50
26 05 33 23-0167 EA Blank End Fitting (Wiremold #2010B)	7.38	3.13
26 05 33 23-0168 EA Flat 90 Degree Elbow (Wiremold #2011)	23.36	8.13
26 05 33 23-0169 EA Tee (Wiremold #2015)	41.96	11.75
26 05 33 23-0170 EA Internal Corner Coupling (Wiremold #2017TC)	15.25	6.25
26 05 33 23-0171 EA Single Gang Device Box (Wiremold #2048)	35.04	11.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0172 EA 2-Gang device Box (Wiremold #2048-2).....	53.79	12.38
26 05 33 23-0173 EA Flush Plate Adapter (Wiremold #2051H).....	38.05	12.38
26 05 33 23-0174 EA Side Reducing Connector (Wiremold #2089).....	30.24	6.25
26 05 33 23-0175 EA #2089E End Reducing Connector.....	12.62	3.13
26 05 33 23-0176 1-7/8" x 7/8" Two Piece Surface Metal Raceways (Wiremold #2400) <small>(26 05 33 23-0157)</small>		
<i>Note: Available in gray enamel (G) or ivory (V).</i>		
26 05 33 23-0177 LF 1-7/8" x 7/8" Two Piece Surface Metal Raceway Base (Wiremold #2400B).....	7.85	3.13
<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0178 LF 1-7/8" x 7/8" Divided Two Piece Surface Metal Raceway Base (Wiremold #2400BD).....	8.49	3.13
<i>For Concrete Or Masonry Surface, Add</i>	0.31	
26 05 33 23-0179 LF Raceway Cover (Wiremold #2400C).....	2.89	0.62
26 05 33 23-0180 EA Wire Clip (Wiremold #2400WC).....	4.45	2.50
26 05 33 23-0181 EA Coupling (Wiremold #2401).....	12.06	3.13
26 05 33 23-0182 EA Divided Raceway Coupling (Wiremold #2401D).....	9.32	3.13
26 05 33 23-0183 EA Cover Clip (Wiremold #2406).....	5.22	1.87
26 05 33 23-0184 EA Device Bracket Frame (Wiremold #2407-2CM).....	37.03	9.38
26 05 33 23-0185 EA Device Bracket Frame (Wiremold #2407-2TJ).....	35.63	9.38
26 05 33 23-0186 EA Ground Clamp (Wiremold #2409).....	9.46	2.50
26 05 33 23-0187 EA End Fitting (Wiremold #2410A).....	25.56	9.38
26 05 33 23-0188 EA Blank End (Wiremold #2410B).....	7.34	3.13
26 05 33 23-0189 EA Divided Blank End Fitting (Wiremold #2410BD).....	7.42	3.13
26 05 33 23-0190 EA Entrance End Fitting (Wiremold #2410C).....	36.87	9.38
26 05 33 23-0191 EA Divided Entrance End Fitting (Wiremold #2410D).....	35.51	9.38
26 05 33 23-0192 EA Divided Entrance End Fitting (Wiremold #2410DFO).....	55.78	9.38
26 05 33 23-0193 EA Full Cap Entrance End Fitting (Wiremold #2410FC).....	43.63	9.38
26 05 33 23-0194 EA Divided Flat 90 Degree Elbow (Wiremold #2411D).....	28.22	9.38
26 05 33 23-0195 EA Radiused Divided Flat 90 Degree Elbow (Wiremold #2411DFO).....	42.89	9.38
26 05 33 23-0196 EA Radiused Flat 90 Degree Elbow (Wiremold #2411FO).....	38.79	9.25
26 05 33 23-0197 EA Flat 90 Degree Elbow (Wiremold #2411M).....	27.08	9.38
26 05 33 23-0198 EA Radiused Divided Tee (Wiremold #2415DFO).....	45.71	9.25
26 05 33 23-0199 EA Radiused Tee (Wiremold #2415FO).....	43.65	9.25
26 05 33 23-0200 EA Tee (Wiremold #2415M).....	31.36	9.25
26 05 33 23-0201 EA Divided Internal Coupling (Wiremold #2417D).....	26.79	9.25
26 05 33 23-0202 EA Radiused Divided Internal Coupling (Wiremold #2417DFO).....	39.93	9.25
26 05 33 23-0203 EA Radiused Internal Coupling (Wiremold #2417FO).....	38.85	9.25
26 05 33 23-0204 EA Internal Coupling (Wiremold #2417M).....	26.08	9.25
26 05 33 23-0205 EA Radiused Divided External Coupling (Wiremold #2418DFO).....	43.08	9.25
26 05 33 23-0206 EA Radiused External Coupling (Wiremold #2418FO).....	42.44	9.25
26 05 33 23-0207 EA External Coupling (Wiremold #2418M).....	30.89	9.25
26 05 33 23-0208 EA 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444).....	39.05	8.13
26 05 33 23-0209 EA 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444-2).....	43.00	8.13
26 05 33 23-0210 EA Over Raceway, Extra Deep Switch And Receptacle Box, 2 Gang (Wiremold #2444-2LS).....	43.20	8.13
26 05 33 23-0211 EA Divided, 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444D).....	41.53	8.13
26 05 33 23-0212 EA Divided, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2A).....	57.28	8.13
26 05 33 23-0213 EA Divided, Over Raceway, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2N).....	50.81	8.13
26 05 33 23-0214 EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448).....	28.32	8.13
26 05 33 23-0215 EA 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448-2).....	42.12	8.13
26 05 33 23-0216 EA Device Bracket Type Adapter Plate (Wiremold #2450).....	13.19	3.13
26 05 33 23-0217 EA 4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #2451H).....	32.02	9.38
26 05 33 23-0218 EA Bridge Fitting For 2400/700/500 (Wiremold #2475D).....	88.03	9.38
26 05 33 23-0219 EA Side Reducing Connector (Wiremold #2489).....	26.53	5.00
26 05 33 23-0220 2-3/4" x 1-17/32" Two Piece Surface Metal Raceways (Wiremold #3000) <small>(26 05 33 23-0157)</small>		
<i>Note: Available in gray enamel (G) or ivory (V).</i>		
26 05 33 23-0221 LF 2-3/4" x 1-17/32" Two Piece Surface Metal Raceway Base (Wiremold #3000B).....	14.97	5.62
<i>For Concrete Or Masonry Surface, Add</i>	0.56	
26 05 33 23-0222 LF Raceway Cover (Wiremold #3000CE).....	3.18	0.62
26 05 33 23-0223 EA Wire Clips For Conductors (Wiremold #3000WC).....	5.57	2.50
26 05 33 23-0224 EA Couplings (Wiremold #3001).....	14.83	2.50
26 05 33 23-0225 EA Rigid Inside Coupling (Wiremold #3001A).....	13.39	3.13
26 05 33 23-0226 EA Supporting Clip (Wiremold #3003).....	10.30	3.13
26 05 33 23-0227 EA Clip Cover (Wiremold #3006E).....	6.29	2.50
26 05 33 23-0228 EA Device Brackets (Wiremold #3007C).....	15.50	5.00
26 05 33 23-0229 EA C-Hanger (Wiremold #3008C).....	14.77	3.75
26 05 33 23-0230 EA Entrance End Fitting For Connecting To 1/2" Conduit Or Armored Connectors (Wiremold #3010AE).....	36.06	11.88
26 05 33 23-0231 EA Blank End Fittings (Wiremold #3010B).....	13.54	5.00
26 05 33 23-0232 EA Entrance End Fitting For Connecting To Rigid Or Flexible Conduit (Wiremold #3010C).....	39.27	11.88
26 05 33 23-0233 EA Flat 90 Degree Elbow (Wiremold #3011E).....	57.76	15.50
26 05 33 23-0234 EA Wall Box Connector (Wiremold #3014C).....	43.61	15.63
26 05 33 23-0235 EA Tee Fitting (Wiremold #3015E).....	78.42	19.37
26 05 33 23-0236 EA Internal Corner Coupling (Wiremold #3017TCE).....	38.51	11.88
26 05 33 23-0237 EA External Corner (Wiremold #3018AE).....	46.05	11.88
26 05 33 23-0238 EA Single Receptacle Cover With Face Diameters Of 1.38"-1.4" (Wiremold #3027AE).....	34.66	11.88
26 05 33 23-0239 EA Utility Box (Wiremold #3028).....	54.39	11.88
26 05 33 23-0240 EA Single Receptacle Cover With Face Diameters Of 1.56"-1.57" (Wiremold #3033JE).....	17.18	3.13
26 05 33 23-0241 EA Blank Cover (Wiremold #3036HE).....	18.64	3.13
26 05 33 23-0242 EA Switch Cover (Wiremold #3040CE).....	17.14	3.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0243	EA		Duplex Receptacle Cover (Wiremold #3043BE)	19.67	3.75
26 05 33 23-0244	EA		15 Amperes, 125 Volt Duplex Grounding Receptacle And Cover (Wiremold #3043GE)	54.80	16.26
26 05 33 23-0245	EA		2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #3044-2)	60.47	11.88
26 05 33 23-0246	EA		Duplex Receptacle Cover (Wiremold #3046BE)	17.58	3.75
26 05 33 23-0247	EA		Tap Off Fitting (Wiremold #3046H-2)	19.04	3.13
26 05 33 23-0248	EA		1-15/16" Deep x 6" Long, Circuit Breaker Housing (Wiremold #3046KD)	72.92	7.50
26 05 33 23-0249	EA		2-3/4" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046KTSQ)	173.07	7.50
26 05 33 23-0250	EA		1-13/16" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046QOU)	63.94	7.50
26 05 33 23-0251	EA		1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046S)	68.91	7.50
26 05 33 23-0252	EA		1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046U)	68.91	7.50
26 05 33 23-0253	EA		Rectangular Receptacle Cover (Wiremold #3048R)	22.53	3.75
26 05 33 23-0254 4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000) ^{(26 05 33}					
<small>²³⁻⁰¹⁵⁷</small>					
Note: Available in gray enamel (G) or ivory (V).					
26 05 33 23-0255	LF		4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base (Wiremold #4000B-10)	17.62	5.62
<i>For Concrete Or Masonry Surface, Add</i>				<i>0.61</i>	
26 05 33 23-0256	LF		Raceway Cover (Wiremold #4000C)	5.69	0.62
26 05 33 23-0257	LF		Divider (Wiremold #4000D)	2.96	0.62
26 05 33 23-0258	EA		Wire Clips For Conductors (Wiremold #4000WC)	6.49	3.13
26 05 33 23-0259	EA		Couplings (Wiremold #4001A)	17.33	3.75
26 05 33 23-0260	EA		Divider Clip (Wiremold #4001D)	8.81	3.75
26 05 33 23-0261	EA		Seam Clip (Wiremold #4006)	8.92	3.75
26 05 33 23-0262	EA		Single Device Fitting (Wiremold #4007C-1R)	31.71	8.13
26 05 33 23-0263	EA		Blank End Fittings (Wiremold #4010B)	17.84	5.00
26 05 33 23-0264	EA		Entrance End Fitting (Wiremold #4010DFO)	68.55	19.25
26 05 33 23-0265	EA		Flat 90 Degree Elbow (Wiremold #4011)	62.41	15.63
26 05 33 23-0266	EA		Radiused Flat 90 Degree Elbow (Wiremold #4011FO)	72.07	15.63
26 05 33 23-0267	EA		Internal Or External 45 Degree Elbow (Wiremold #4012TX)	69.33	19.37
26 05 33 23-0268	EA		Wall Box Connector (Wiremold #4014A)	88.66	19.37
26 05 33 23-0269	EA		Tee Fitting (Wiremold #4015)	97.13	19.37
26 05 33 23-0270	EA		Divided Tee Fitting (Wiremold #4015D)	100.54	19.37
26 05 33 23-0271	EA		Radiused Full Capacity Divided Tee Fitting (Wiremold #4015DFO)	117.88	19.37
26 05 33 23-0272	EA		Radiused Tee Fitting (Wiremold #4015FO)	118.21	19.37
26 05 33 23-0273	EA		Internal Elbow (Wiremold #4017)	58.45	19.37
26 05 33 23-0274	EA		Internal Elbow (Wiremold #4017FO)	95.63	19.37
26 05 33 23-0275	EA		Inverted Internal Elbow (Wiremold #4017N)	63.56	19.37
26 05 33 23-0276	EA		Internal Corner Coupling (Wiremold #4017TCA)	55.74	19.37
26 05 33 23-0277	EA		External Elbow (Wiremold #4018)	81.68	19.37
26 05 33 23-0278	EA		Radiused External Elbow (Wiremold #4018FO)	92.98	19.37
26 05 33 23-0279	EA		Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover (Wiremold #4046ARJ)	73.87	8.13
26 05 33 23-0280	EA		Double Duplex Receptacle Outlet Cover (Wiremold #4046B-2)	78.05	8.13
26 05 33 23-0281	EA		Duplex Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046DRJ)	78.05	8.13
26 05 33 23-0282	EA		Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover (Wiremold #4046DRJ-2)	102.77	8.13
26 05 33 23-0283	EA		Tap-Off Fitting (Wiremold #4046H-2)	25.28	8.13
26 05 33 23-0284	EA		Combination Single Receptacle And Phone Outlet Center (Wiremold #4046JRJ)	65.11	3.75
26 05 33 23-0285	EA		Rectangular Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046RRJ)	79.78	8.13
26 05 33 23-0286	EA		1 Gang Device Plate (Wiremold #G4047C-1)	24.03	8.13
26 05 33 23-0287	EA		2 Gang Device Plate (Wiremold #G4047C-2)	27.44	8.13
26 05 33 23-0288	EA		Device Mounting Bracket (Wiremold #4050)	26.77	6.25
26 05 33 23-0289	EA		#4000 To #3000 Take-off Connector (Wiremold #4074A)	119.53	19.37
26 05 33 23-0290	EA		Bridge Fitting (Wiremold #4075D)	108.81	19.37
26 05 33 23-0291	EA		Bridge Fitting (Wiremold #4075DA)	108.81	19.37
26 05 33 23-0292	EA		Panel Connector (Wiremold #4086A)	99.82	36.88
26 05 33 23-0293	EA		Reducing Connector Fitting (Wiremold #4089)	59.52	19.37
26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000) ^{(26 05}					
<small>^{33 23-0157}</small>					
Note: Available in gray enamel (G) or ivory (V).					
26 05 33 23-0295	LF		4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base (Wiremold #6000B-10)	24.55	6.88
<i>For Concrete Or Masonry Surface, Add</i>				<i>0.69</i>	
26 05 33 23-0296	LF		Raceway Cover (Wiremold #6000C)	6.82	1.87
26 05 33 23-0297	LF		Divider (Wiremold #6000DA)	6.95	1.87
26 05 33 23-0298	EA		Wire Clips For Conductors (Wiremold #6000WC)	7.33	3.13
26 05 33 23-0299	EA		Couplings (Wiremold #6001A)	21.56	6.25
26 05 33 23-0300	EA		Divider Clip (Wiremold #6001D)	9.78	3.13
26 05 33 23-0301	EA		Converter Coupling (Wiremold #6001TX)	26.77	8.13
26 05 33 23-0302	EA		Connection Cover (Wiremold #6006)	25.65	8.13
26 05 33 23-0303	EA		Single Gang Device Plate (Wiremold #6007C-1)	26.67	8.13
26 05 33 23-0304	EA		Two Gang Device Plate (Wiremold #6007C-2)	28.75	8.13
26 05 33 23-0305	EA		C-Hanger (Wiremold #6008A)	41.82	11.88
26 05 33 23-0306	EA		Blank End Fittings (Wiremold #6010B)	48.56	18.75
26 05 33 23-0307	EA		Combination Flat Elbow (Wiremold #6011TX)	81.60	18.75
26 05 33 23-0308	EA		Internal-External 45 Degree Elbow (Wiremold #6012TX)	82.39	18.00
26 05 33 23-0309	EA		Connector Fitting (Wiremold #6014A)	113.87	19.37
26 05 33 23-0310	EA		Combination Internal-External Elbow (Wiremold #6017TX)	85.58	21.25
26 05 33 23-0311	EA		Circuit Breaker Housing (Wiremold #6046KD)	139.95	21.25
26 05 33 23-0312	EA		#6000 To #6000 Take-off Connector (Wiremold #6074)	134.04	18.75
26 05 33 23-0313	EA		#6000 To #4000 Take-off Connector (Wiremold #6074A)	144.13	18.75
26 05 33 23-0314	EA		Panel Connector (Wiremold #6086)	106.02	43.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0315				Two Piece Surface Aluminum Raceways <small>(26 05 33 23-0056)</small> Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 05 33 23-0316				1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000) <small>(26 05 33 23-0315)</small>		
26 05 33 23-0317	LF			1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2000B) 11.29		3.13
				<i>For Concrete Or Masonry Surface, Add</i> 0.31		
26 05 33 23-0318	LF			Aluminum Raceway Cover (Wiremold #AL2000C) 5.25		0.62
26 05 33 23-0319	EA			Wire Clip (Wiremold #AL2000WC) 5.63		2.50
26 05 33 23-0320	EA			Coupling (Wiremold #AL2001) 13.04		3.13
26 05 33 23-0321	EA			Supporting Clip (Wiremold #AL2003) 6.02		1.87
26 05 33 23-0322	EA			Cover Clip (Wiremold #AL2006) 7.43		1.87
26 05 33 23-0323	EA			Ground Clamp (Wiremold #AL2009) 10.82		3.13
26 05 33 23-0324	EA			Entrance End Fitting (Wiremold #AL2010A) 30.47		9.38
26 05 33 23-0325	EA			Blank End Fitting (Wiremold #AL2010B) 9.90		3.13
26 05 33 23-0326	EA			Flat 90 Degree Elbow (Wiremold #AL2011) 34.23		8.13
26 05 33 23-0327	EA			Tee (Wiremold #AL2015) 46.73		11.75
26 05 33 23-0328	EA			Internal Corner Elbow (Wiremold #AL2017) 30.51		6.25
26 05 33 23-0329	EA			External Corner Elbow (Wiremold #AL2018) 30.45		6.25
26 05 33 23-0330	EA			2 To 15 Amperes, In-Line Receptacle (Wiremold #AL2043) 50.73		12.38
26 05 33 23-0331	EA			4-13/16" Round Fixture Box (Wiremold #AL2038) 110.31		11.12
26 05 33 23-0332	EA			4-1/2" x 3" x 2-1/4" D Box (Wiremold #AL2044) 51.59		11.12
26 05 33 23-0333	EA			4-5/8" x 4-7/8" x 2-1/2" D Box (Wiremold #AL2044-2) 102.46		12.38
26 05 33 23-0334	EA			Single Gang Shallow Device Box (Wiremold #AL2047) 53.26		11.12
26 05 33 23-0335	EA			2-Gang Shallow Device Box (Wiremold #AL2047-2) 91.16		12.38
26 05 33 23-0336	EA			Flush Plate Adapter (Wiremold #AL2051H) 41.97		12.38
26 05 33 23-0337				2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400) <small>(26 05 33 23-0315)</small>		
26 05 33 23-0338	LF			2" x 1-9/32" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2400B) 12.59		3.13
				<i>For Concrete Or Masonry Surface, Add</i> 0.31		
26 05 33 23-0339	LF			Aluminum Raceway Cover (Wiremold #AL2400C) 5.47		0.62
26 05 33 23-0340	EA			Wire Clip (Wiremold #AL2400WC) 7.46		2.50
26 05 33 23-0341	EA			Coupling (Wiremold #AL2401) 14.78		3.13
26 05 33 23-0342	EA			Cover Clip (Wiremold #AL2406) 9.50		1.87
26 05 33 23-0343	EA			Ground Clamp (Wiremold #AL2409) 8.44		2.50
26 05 33 23-0344	EA			Blank End (Wiremold #AL2410B) 10.88		3.13
26 05 33 23-0345	EA			End Fitting (Wiremold #AL2410B2) 24.35		9.38
26 05 33 23-0346	EA			Flat 90 Degree Elbow (Wiremold #AL2411) 41.49		9.38
26 05 33 23-0347	EA			Tee (Wiremold #AL2415) 44.89		9.25
26 05 33 23-0348	EA			Fourway Fitting (Wiremold #AL2416) 52.11		9.25
26 05 33 23-0349	EA			Internal Coupling (Wiremold #AL2417) 41.33		9.25
26 05 33 23-0350	EA			External Coupling (Wiremold #AL2418) 44.22		9.25
26 05 33 23-0351	EA			4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #AL2451H) 37.38		9.38
26 05 33 23-0352				2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300) <small>(26 05 33 23-0315)</small>		
26 05 33 23-0353	LF			2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL3300B) 20.82		5.62
				<i>For Concrete Or Masonry Surface, Add</i> 0.56		
26 05 33 23-0354	LF			Aluminum Raceway Cover (Wiremold #AL3300CE) 5.59		0.62
26 05 33 23-0355	LF			Raceway Divider (Wiremold #AL3300D) 4.67		5.62
26 05 33 23-0356	EA			Wire Clips For Conductors (Wiremold #AL3300WC) 9.46		2.50
26 05 33 23-0357	EA			Couplings (Wiremold #AL3301) 18.39		2.50
26 05 33 23-0358	EA			Divider Coupling (Wiremold #AL3301D) 14.48		3.13
26 05 33 23-0359	EA			Ground Clamp (Wiremold #AL3309) 9.95		2.50
26 05 33 23-0360	EA			Blank End Fittings (Wiremold #AL3310B) 20.58		5.00
26 05 33 23-0361	EA			End Fitting (Wiremold #AL3310B1) 35.40		11.88
26 05 33 23-0362	EA			Flat 90 Degree Elbow (Wiremold #AL3311) 96.83		15.50
				Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0363	EA			Tee Fitting (Wiremold #AL3315) 111.94		19.37
				Note: Includes three (3) AL3301 couplings.		
26 05 33 23-0364	EA			Cross Fitting (Wiremold #AL3316) 125.27		19.37
				Note: Includes four (4) AL3301 couplings.		
26 05 33 23-0365	EA			Internal Elbow (Wiremold #AL3317) 89.35		11.88
				Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0366	EA			External Elbow (Wiremold #AL3318) 89.44		11.88
				Note: Includes two (2) AL3301 couplings.		
26 05 33 23-0367	EA			Duplex Receptacle Cover (Wiremold #AL3346D) 20.41		3.75
26 05 33 23-0368	EA			Single Receptacle Cover (Wiremold #AL3346E) 20.29		3.75
26 05 33 23-0369	EA			GFCI/ Surge Receptacle Cover (Wiremold #AL3346G) 20.10		3.75
26 05 33 23-0370	EA			Single Device Cover Plate (Wiremold #AL3356R) 19.79		3.13
26 05 33 23-0371				5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200) <small>(26 05 33 23-0315)</small>		
26 05 33 23-0372	LF			5" x 2" Two Piece Surface Aluminum Raceway Base (Wiremold #AL5200B-10) 26.21		5.62
				<i>For Concrete Or Masonry Surface, Add</i> 0.61		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0373 LF Aluminum Raceway Cover (Wiremold #AL5200C)	10.27	0.62
26 05 33 23-0374 LF Divider (Wiremold #AL5200D)	6.10	0.62
26 05 33 23-0375 EA Wire Clips For Conductors (Wiremold #AL5200WC)	8.62	3.13
26 05 33 23-0376 EA Wire Clips For Conductors (Wiremold #AL5200WC2)	7.36	3.13
26 05 33 23-0377 EA Wire Clips For Conductors (Wiremold #AL5200WC3)	7.32	3.13
26 05 33 23-0378 EA Couplings (Wiremold #AL5201)	17.68	3.75
26 05 33 23-0379 EA Cover Clip (Wiremold #AL5206)	15.14	3.75
26 05 33 23-0380 EA Ground Adapter (Wiremold #AL5209)	19.27	3.75
26 05 33 23-0381 EA Blank End Fittings (Wiremold #AL5210B)	19.93	5.00
26 05 33 23-0382 EA Blank End Fittings (Wiremold #AL5210B1)	21.24	5.00
26 05 33 23-0383 EA Blank End Fittings (Wiremold #AL5210B2)	21.53	5.00
26 05 33 23-0384 EA Blank End Fittings (Wiremold #AL5210B3)	20.94	5.00
26 05 33 23-0385 EA Flat 90 Degree Elbow (Wiremold #AL5211)	104.95	15.63
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0386 EA Wall Box Connector (Wiremold #AL5214)	85.53	19.37
26 05 33 23-0387 EA Tee Fitting (Wiremold #AL5215)	123.26	19.37
Note: Includes three (3) pairs of AL5201 couplings.		
26 05 33 23-0388 EA Four Way Fitting (Wiremold #AL5216)	134.43	19.37
Note: Includes four (4) pairs of AL5201 couplings.		
26 05 33 23-0389 EA Internal Elbow (Wiremold #AL5217)	110.26	19.37
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0390 EA Internal Corner Coupling (Wiremold #AL5217A)	51.47	19.37
26 05 33 23-0391 EA Inverted Internal Elbow (Wiremold #AL5217N)	113.11	19.37
26 05 33 23-0392 EA External Elbow (Wiremold #AL5218)	111.15	19.37
Note: Includes two (2) pairs of AL5201 couplings.		
26 05 33 23-0393 EA Blank Device Cover Plate (Wiremold #AL5246B)	23.66	3.75
26 05 33 23-0394 EA Receptacle Device Cover Plate (Wiremold #AL5246D)	27.75	3.75
26 05 33 23-0395 EA Double Receptacle Device Cover Plate (Wiremold #AL5246DD)	32.63	3.75
26 05 33 23-0396 EA Device Cover Plate (Wiremold #AL5246F)	30.70	3.75
26 05 33 23-0397 EA Device Cover Plate (Wiremold #AL5246G)	28.47	3.75
26 05 33 23-0398 EA Offset Divider (Wiremold #AL5260)	27.83	8.13
26 05 33 23-0399 3" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA3800)		
<small>(26 05 33 23-0315)</small>		
26 05 33 23-0400 LF Single Channel, 3" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA3800B-10)	22.28	5.62
26 05 33 23-0401 EA Cover Clip (Wiremold #ALA3806)	11.16	3.75
26 05 33 23-0402 EA Blank End Fittings (Wiremold #ALA3810B)	18.65	5.00
26 05 33 23-0403 EA Entrance End Cap Fittings (Wiremold #ALA3810B1)	19.81	5.00
26 05 33 23-0404 EA Flat 90 Degree Elbow (Wiremold #ALA3811)	95.56	15.63
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0405 EA Flat Tee Fitting (Wiremold #ALA3815)	100.53	19.37
Note: Includes three (3) ALA01 couplings.		
26 05 33 23-0406 EA Internal Elbow (Wiremold #ALA3817)	98.31	19.37
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0407 EA Inverted Internal Elbow (Wiremold #ALA3817N)	113.67	19.37
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0408 EA External Elbow (Wiremold #ALA3818)	99.45	19.37
Note: Includes two (2) ALA01 couplings.		
26 05 33 23-0409 6" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA4800)		
<small>(26 05 33 23-0315)</small>		
26 05 33 23-0410 LF Two Channel, 6" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA4800B-10)	35.26	5.62
26 05 33 23-0411 EA Cover Clip (Wiremold #ALA4806)	15.73	3.75
26 05 33 23-0412 EA Blank End Fittings (Wiremold #ALA4810B)	20.64	5.00
26 05 33 23-0413 EA Entrance End Cap Fittings (Wiremold #ALA4810B2)	22.74	5.00
26 05 33 23-0414 EA Flat 90 Degree Elbow (Wiremold #ALA4811)	127.37	15.63
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0415 EA Flat Tee Fitting (Wiremold #ALA4815)	173.49	19.37
Note: Includes six (6) ALA01 couplings.		
26 05 33 23-0416 EA Internal Elbow (Wiremold #ALA4817)	119.76	19.37
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0417 EA Inverted Internal Elbow (Wiremold #ALA4817N)	139.56	19.37
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0418 EA External Elbow (Wiremold #ALA4818)	125.33	19.37
Note: Includes four (4) ALA01 couplings.		
26 05 33 23-0419 Two Piece Surface Aluminum Raceways Fittings (Wiremold #ALA3800 And #ALA4800)		
<small>(26 05 33 23-0315)</small>		
See CSI section 26 27 26 00-0010 for receptacles.		
26 05 33 23-0420 LF 3" Wide Aluminum Raceway Cover (Wiremold #ALAC-5)	7.58	0.62
Note: For use with ALA3800 single channel raceway and ALA4800 dual channel raceway.		
26 05 33 23-0421 EA Wire Clips (Wiremold #ALAWC)	7.15	3.13
26 05 33 23-0422 EA Slide Couplings (Wiremold #ALA01)	18.30	3.75
26 05 33 23-0423 EA Grounding Adapter (Wiremold #ALA09)	15.97	3.75
26 05 33 23-0424 EA Bend Radius Control Insert For Flat Elbow (Wiremold #ALA11RI)	43.57	15.63
26 05 33 23-0425 EA Internal Corner Coupling (Wiremold #ALA17A)	52.28	19.37
26 05 33 23-0426 EA Bend Radius Control Insert For Internal And External Elbow (Wiremold #ALA17/18RI)	47.75	15.63
26 05 33 23-0427 EA Blank Cover Plate (Wiremold #ALA-BL)	18.76	3.75
26 05 33 23-0428 EA Duplex Receptacle Cover Plate (Wiremold #ALA-DR)	19.90	3.75
26 05 33 23-0429 EA Single Receptacle Cover Plate, 1.40" Diameter Opening (Wiremold #ALA-E)	20.66	3.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0430 EA Single Receptacle Cover Plate, 1.59" Diameter Opening (Wiremold #ALA-F)	22.32	3.75
26 05 33 23-0431 EA GFCI/Surge/Decorator Cover Plate (Wiremold #ALA-G)	20.05	3.75
26 05 33 23-0432 EA Single Receptacle Cover Plate, 2.13" Diameter Opening (Wiremold #ALA-J)	20.67	3.75
26 05 33 23-0433 EA Toggle Switch Cover Plate (Wiremold #ALA-N)	21.17	3.75
26 05 33 23-0434 EA Active LPB Cover Plate (Wiremold #ALA-LPB)	26.71	3.75
26 05 33 23-0435 EA Active MAB Cover Plate (Wiremold #ALA-MAB)	25.20	3.75
26 05 33 23-0436 EA Ortronics Cover Plate (Wiremold #ALA-MABRT)	28.81	3.75
26 05 33 23-0437 EA 1-3/4" x 2-3/4" Cover Plate (Wiremold #ALA-SG)	21.38	3.75
26 05 33 23-0438 EA Active 2A Cover Plate (Wiremold #ALA-2A)	27.88	3.75
26 05 33 23-0439 EA Ortronics Communications Cover Plate (Wiremold #ALA-ABRT)	25.64	3.75
26 05 33 23-0440 EA 3/4" Grommet/Mousehole Cover Plate (Wiremold #ALA-Z)	21.12	3.75
26 05 33 23-0441 EA Ortronics Low Profile Cover Plate (Wiremold #ALA-LPB3S2)	25.86	3.75
26 05 33 23-0442 Surface Non-Metallic Raceways <small>(26 05 33 23-0001)</small>		
<i>Note: Exposed on flat wall surface.</i>		
26 05 33 23-0443 One Piece Surface Non-Metallic Raceways <small>(26 05 33 23-0442)</small>		
<i>Note: Exposed on flat wall surface. (Wiremold or approved equal).</i>		
26 05 33 23-0444 7/8" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #400) <small>(26 05 33 23-0443)</small>		
26 05 33 23-0445 LF 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #400BAC)	7.30	2.50
<i>For Concrete Or Masonry Surface, Add</i>		<i>0.25</i>
26 05 33 23-0446 EA Wire Clip (Wiremold #400WC)	5.49	2.50
26 05 33 23-0447 EA Cover Clip (Wiremold #406)	5.79	2.50
26 05 33 23-0448 EA Blank End Clip (Wiremold #410B)	11.13	5.00
26 05 33 23-0449 EA Flat 90 Degree Elbow (Wiremold #411)	13.04	5.00
26 05 33 23-0450 EA Tee (Wiremold #415)	16.42	6.25
26 05 33 23-0451 EA Internal Elbow (Wiremold #417)	12.80	5.00
26 05 33 23-0452 EA External Elbow (Wiremold #418)	12.80	5.00
26 05 33 23-0453 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #800) <small>(26 05 33 23-0443)</small>		
26 05 33 23-0454 LF 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #800BAC)	7.64	2.50
<i>For Concrete Or Masonry Surface, Add</i>		<i>0.25</i>
26 05 33 23-0455 EA Wire Clip (Wiremold #800WC)	5.44	2.50
26 05 33 23-0456 EA Cover Clip (Wiremold #806)	5.53	2.50
26 05 33 23-0457 EA Entrance End Fitting (Wiremold #810A2)	15.85	5.00
26 05 33 23-0458 EA Blank End Fitting (Wiremold #810B)	10.95	5.00
26 05 33 23-0459 EA Flat 90 Degree Elbow (Wiremold #811)	12.37	5.00
26 05 33 23-0460 EA Tee (Wiremold #815)	15.52	6.25
26 05 33 23-0461 EA Internal Elbow (Wiremold #817)	12.16	5.00
26 05 33 23-0462 EA External Elbow (Wiremold #818)	12.16	5.00
26 05 33 23-0463 EA End Reducer, #800 To #400 (Wiremold #889A)	13.50	5.00
26 05 33 23-0464 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceways (Wiremold #2300) <small>(26 05 33 23-0443)</small>		
26 05 33 23-0465 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2300BAC)	8.60	2.50
<i>For Concrete Or Masonry Surface, Add</i>		<i>0.25</i>
26 05 33 23-0466 LF 2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover (Wiremold #2300BACD)	9.09	2.50
<i>For Concrete Or Masonry Surface, Add</i>		<i>0.25</i>
26 05 33 23-0467 EA Wire Clip (Wiremold #2300WC)	5.65	2.50
26 05 33 23-0468 EA Cover Clip (Wiremold #2306)	5.90	2.50
26 05 33 23-0469 EA Entrance End Fitting (Wiremold #2310A)	16.95	5.00
26 05 33 23-0470 EA Blank End Fitting (Wiremold #2310B)	11.41	5.00
26 05 33 23-0471 EA Divided Entrance End Fitting (Wiremold #2310DFO)	18.84	5.00
26 05 33 23-0472 EA Flat 90 Degree Elbow (Wiremold #2311)	12.52	5.00
26 05 33 23-0473 EA Divided Flat 90 Degree Elbow (Wiremold #2311DFO)	13.33	5.00
26 05 33 23-0474 EA Tee (Wiremold #2315)	15.59	6.25
26 05 33 23-0475 EA Internal Elbow (Wiremold #2317)	12.52	5.00
26 05 33 23-0476 EA Divided Internal Elbow (Wiremold #2317DFO)	13.34	5.00
26 05 33 23-0477 EA External Elbow (Wiremold #2318)	12.55	5.00
26 05 33 23-0478 EA Divided External Elbow (Wiremold #2318DFO)	13.48	5.00
26 05 33 23-0479 EA End Reducer, #2300 To #400 (Wiremold #2389)	13.49	5.00
26 05 33 23-0480 EA End Reducer, #2300 To #800 (Wiremold #2389A)	14.01	5.00
26 05 33 23-0481 One Piece Surface Non-Metallic Raceway Fittings (Wiremold #400, #800 Or #2300) <small>(26 05 33 23-0443)</small>		
26 05 33 23-0482 EA Blank Cover, 4-1/2" Diameter (Wiremold #2336)	14.59	4.38
26 05 33 23-0483 EA Extension Box, 5-1/2" Diameter (Wiremold #2337A)	23.14	5.00
26 05 33 23-0484 EA -A Fixture Box, 5-1/2" Diameter (Wiremold #2333)	23.26	5.00
26 05 33 23-0485 EA Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344)	21.16	5.00
26 05 33 23-0486 EA Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344-2)	24.24	5.00
26 05 33 23-0487 EA Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344D)	22.90	5.00
26 05 33 23-0488 EA Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344SD-2A)	24.72	5.00
26 05 33 23-0489 EA 1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2347)	22.27	8.13
26 05 33 23-0490 EA 2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2347-2)	24.97	8.13
26 05 33 23-0491 EA 1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348)	23.06	8.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 05 33 23-0492	EA	2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2348-2)		27.14	8.13
26 05 33 23-0493	EA	3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide (Wiremold #2348-3)		31.87	8.13
26 05 33 23-0494	EA	1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348AMP)		30.37	8.13
26 05 33 23-0495	EA	1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348D)		27.78	8.13
26 05 33 23-0496	EA	Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348S/51)		21.86	8.13
26 05 33 23-0497		3/4" x 3/8" One Piece Surface Non-Metallic Raceways (Wiremold #2700) ⁽²⁶⁾			
26 05 33 23-0498	LF	3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2700)		6.53	2.50
		<i>For Concrete Or Masonry Surface, Add</i>		0.25	
26 05 33 23-0499	EA	3/4" Wire Clip (Wiremold #2700WC)		2.83	1.25
26 05 33 23-0500	EA	Cover Clip (Wiremold #2706)		4.13	1.25
26 05 33 23-0501	EA	Blank End (Wiremold #2710B)		6.61	2.50
26 05 33 23-0502	EA	Flat 90 Degree Elbow (Wiremold #2711)		7.91	3.13
26 05 33 23-0503	EA	Tee (Wiremold #2715)		12.93	5.62
26 05 33 23-0504	EA	Internal Elbow (Wiremold #2717)		9.16	3.75
26 05 33 23-0505	EA	External Elbow (Wiremold #2718)		9.14	3.75
26 05 33 23-0506	EA	Drop Ceiling Connector (Wiremold #2786)		10.78	4.38
26 05 33 23-0507		1" x 1/2" One Piece Surface Non-Metallic Raceways (Wiremold #2800) ^(26 05 33)			
26 05 33 23-0508	LF	1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2800)		8.18	3.13
		<i>For Concrete Or Masonry Surface, Add</i>		0.31	
26 05 33 23-0509	EA	1" Wire Clip (Wiremold #2800WC)		4.17	1.87
26 05 33 23-0510	EA	Cover Clip (Wiremold #2806)		5.32	1.87
26 05 33 23-0511	EA	Blank End (Wiremold #2810B)		7.82	3.13
26 05 33 23-0512	EA	Flat 90 Degree Elbow (Wiremold #2811)		10.39	4.38
26 05 33 23-0513	EA	Radiused Flat 90 Degree Elbow (Wiremold #2811FO)		10.95	4.38
26 05 33 23-0514	EA	Tee (Wiremold #2815)		15.39	6.88
26 05 33 23-0515	EA	Internal Elbow (Wiremold #2817)		11.61	5.00
26 05 33 23-0516	EA	External Elbow (Wiremold #2818)		11.64	5.00
26 05 33 23-0517	EA	Radiused Tee (Wiremold #2815FO)		16.15	6.88
26 05 33 23-0518	EA	Radiused Internal Elbow (Wiremold #2817FO)		12.30	5.00
26 05 33 23-0519	EA	Radiused External Elbow (Wiremold #2818FO)		12.20	5.00
26 05 33 23-0520	EA	Drop Ceiling Connector (Wiremold #2886)		13.11	5.62
26 05 33 23-0521	EA	Reducer, #2800 To #2700 (Wiremold #2889)		11.77	5.00
26 05 33 23-0522		1-1/2" x 3/4" One Piece Surface Non-Metallic Raceways (Wiremold #2900)			
26 05 33 23-0523	LF	1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2900)		9.97	3.75
		<i>For Concrete Or Masonry Surface, Add</i>		0.38	
26 05 33 23-0524	EA	1-1/2" Wire Clip (Wiremold #2900WC)		5.52	2.50
26 05 33 23-0525	EA	Cover Clip (Wiremold #2906)		6.71	2.50
26 05 33 23-0526	EA	Blank End (Wiremold #2910B)		9.21	3.75
26 05 33 23-0527	EA	Flat 90 Degree Elbow (Wiremold #2911)		11.72	5.00
26 05 33 23-0528	EA	Radiused Flat 90 Degree Elbow (Wiremold #2911FO)		12.63	5.00
26 05 33 23-0529	EA	Tee (Wiremold #2915)		16.72	7.50
26 05 33 23-0530	EA	Radiused Tee (Wiremold #2915FO)		17.65	7.50
26 05 33 23-0531	EA	Internal Elbow (Wiremold #2917)		12.98	5.62
26 05 33 23-0532	EA	Radiused Internal Elbow (Wiremold #2917FO)		13.93	5.62
26 05 33 23-0533	EA	External Elbow (Wiremold #2918)		12.97	5.62
26 05 33 23-0534	EA	Radiused External Elbow (Wiremold #2918FO)		14.19	5.62
26 05 33 23-0535	EA	Drop Ceiling Connector (Wiremold #2986)		13.13	5.62
26 05 33 23-0536	EA	Reducer, #2900 To #2800 (Wiremold #2989)		14.58	6.25
26 05 33 23-0537	EA	Reducer, #2900 To #2700 (Wiremold #2989A)		14.27	6.25
26 05 33 23-0538		Two Piece Surface Non-Metallic Raceways ^(26 05 33 23-0442)			
		Note: Exposed on flat wall surface. (Wiremold or approved equal).			
26 05 33 23-0539		5" x 1" Two Piece Surface Non-Metallic Raceways (Wiremold #500) ^(26 05 33 23-0538)			
26 05 33 23-0540	LF	5" x 1" Two Piece Surface Non-Metallic Raceway Base (Wiremold #5000B)		15.58	5.62
		<i>For Concrete Or Masonry Surface, Add</i>		0.56	
26 05 33 23-0541	LF	Black, Gray Or White, Cover (Wiremold #5000C)		14.91	5.62
26 05 33 23-0542	LF	Oak Veneer, Cover (Wiremold #5000COA)		26.13	5.62
26 05 33 23-0543	LF	Maple Wood Veneer, Cover (Wiremold #5000CW)		21.70	5.62
26 05 33 23-0544	LF	Black, Gray Or White, Quarter Round Trim (Wiremold #5000T)		2.05	0.62
26 05 33 23-0545	LF	Oak Veneer, Quarter Round Trim (Wiremold #5000TOA)		7.67	0.62
26 05 33 23-0546	LF	Maple Wood Veneer, Quarter Round Trim (Wiremold #5000TOW)		4.85	0.62
26 05 33 23-0547	EA	Base Coupling (Wiremold #5001)		14.78	6.25
26 05 33 23-0548	EA	Blank/Coax Adapter (Wiremold #5004)		8.14	3.13
26 05 33 23-0549	EA	Low Voltage Blank Plate (Wiremold #5005)		10.71	3.75
26 05 33 23-0550	EA	Cover Clip (Wiremold #5006)		15.72	6.25
26 05 33 23-0551	EA	Internal Wire Guard (Wiremold #5006A)		14.86	6.25
26 05 33 23-0552	EA	Device Bracket (Wiremold #5007C)		16.62	6.25
26 05 33 23-0553	EA	Device Plate (Wiremold #5007C-1)		30.58	12.50
26 05 33 23-0554	EA	Deep Device Plate (Wiremold #5007C-2)		31.48	12.50
26 05 33 23-0555	EA	Right Or Left End Cap (Wiremold #5010)		27.06	11.88
26 05 33 23-0556	EA	Entrance End Feed (Wiremold #5010A)		50.93	19.37



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 33 23-0557 EA Internal Base Elbow (Wiremold #5017B)		36.25	15.63
	26 05 33 23-0558 EA Internal Cover Elbow (Wiremold #5017C)		32.07	12.50
	26 05 33 23-0559 EA Internal Elbow Wire Guard (Wiremold #5017WG)		22.29	9.38
	26 05 33 23-0560 EA External Base Elbow (Wiremold #5018B)		36.19	15.63
	26 05 33 23-0561 EA External Cover Elbow (Wiremold #5018C)		32.31	12.50
	26 05 33 23-0562 EA External Elbow Wire Guard (Wiremold #5018WG)		14.62	6.25
26 05 33 23-0563	5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5400) <small>(26 05 33 23-0538)</small>			
	26 05 33 23-0564 LF 5-1/4" x 1-11/16", Two Compartment, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5400TB)		16.48	5.62
	<i>For Concrete Or Masonry Surface, Add</i>		<i>0.56</i>	
	26 05 33 23-0565 LF Full Width Cover (Wiremold #5400C)		5.08	0.62
	26 05 33 23-0566 LF Twin Snap Cover (Wiremold #5400TC)		3.38	0.62
	26 05 33 23-0567 EA Twin Snap Cover Wire Clips (Wiremold #5400TWC)		6.81	3.13
	26 05 33 23-0568 EA Cover Clip (Wiremold #5406A)		10.75	3.75
	26 05 33 23-0569 EA Twin Cover Clip (Wiremold #5406T)		9.34	3.75
	26 05 33 23-0570 EA Base Seam Clip (Wiremold #5406TB)		8.55	3.75
	26 05 33 23-0571 EA L Or R (Left Or Right) Transition Fitting (Wiremold #5408)		60.32	19.37
	26 05 33 23-0572 EA End Cap (Wiremold #5410)		30.72	11.88
	26 05 33 23-0573 EA Radiused Divided Entrance Cap Fitting (Wiremold #5410DFO)		58.22	19.37
	26 05 33 23-0574 EA Radiused Flat 90 Degree Elbow (Wiremold #5411FO)		52.18	15.63
	26 05 33 23-0575 EA Tee Fitting (Wiremold #5415)		60.81	19.37
	26 05 33 23-0576 EA Radiused Tee Fitting (Wiremold #5415FO)		63.24	19.37
	26 05 33 23-0577 EA Radiused Internal Elbow (Wiremold #5417FO)		51.91	19.37
	26 05 33 23-0578 EA External Elbow (Wiremold #5418)		52.52	19.37
	26 05 33 23-0579 EA Radiused External Elbow (Wiremold #5418FO)		53.08	19.37
	26 05 33 23-0580 EA 5-5/32" x 6" Device Bracket (Wiremold #5450)		23.63	6.25
	26 05 33 23-0581 EA 7-19/32" x 7-1/2" Device Bracket (Wiremold #5450A3)		30.25	6.25
	26 05 33 23-0582 EA 2-1/2" x 4-7/8" Twin Snap Device Bracket (Wiremold #5450T)		18.74	6.25
	26 05 33 23-0583 EA Transition Fitting (Wiremold #5474)		54.22	19.37
26 05 33 23-0584	6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5500) <small>(26 05 33 23-0538)</small>			
	26 05 33 23-0585 LF 6-11/16" x 1-11/16", Three Compartment Divided, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5500BD3)		20.07	5.62
	<i>For Concrete Or Masonry Surface, Add</i>		<i>0.56</i>	
	26 05 33 23-0586 LF Cover (Wiremold #5500C)		6.66	0.62
	26 05 33 23-0587 EA Wire Clips (Wiremold #5500WC)		7.71	3.13
	26 05 33 23-0588 EA Cover Clip (Wiremold #5506)		11.93	3.75
	26 05 33 23-0589 EA Base Seam Clip Fitting (Wiremold #5506B)		8.94	3.75
	26 05 33 23-0590 EA Modular Furniture Adapter (Wiremold #5507AD)		11.23	3.75
	26 05 33 23-0591 EA Blank Faceplate (Wiremold #5507B)		11.27	3.75
	26 05 33 23-0592 EA Duplex Receptacle Faceplate (Wiremold #5507D)		11.32	3.75
	26 05 33 23-0593 EA Dual RJ Connector Faceplate (Wiremold #5507FRJ)		11.32	3.75
	26 05 33 23-0594 EA Rectangular Receptacle Faceplate (Wiremold #5507R)		11.22	3.75
	26 05 33 23-0595 EA Dual RJ Connector Faceplate (Wiremold #5507RJ)		11.25	3.75
	26 05 33 23-0596 EA Rectangular Spacer Fitting (Wiremold #5507S)		11.17	3.75
	26 05 33 23-0597 EA Switch Faceplate (Wiremold #5507SW)		11.20	3.75
	26 05 33 23-0598 EA Twistlock Faceplate (Wiremold #5507T1)		11.27	3.75
	26 05 33 23-0599 EA Single Receptacle Faceplate (Wiremold #5507T2)		11.07	3.75
	26 05 33 23-0600 EA 6-5/8" x 6" Device Bracket (Wiremold #5550)		27.91	6.25
	26 05 33 23-0601 EA 9-5/8" x 7-1/2" Device Bracket (Wiremold #5550A4)		36.58	6.25
	26 05 33 23-0602 EA End Cap (Wiremold #5510)		32.99	11.88
	26 05 33 23-0603 EA Entrance End Fitting (Wiremold #5510D)		65.45	19.37
	26 05 33 23-0604 EA Radiused Flat 90 Degree Elbow (Wiremold #5511FO)		58.88	15.63
	26 05 33 23-0605 EA Backfeed Connector (Wiremold #5514A)		48.65	15.63
	26 05 33 23-0606 EA Tee Fitting (Wiremold #5515)		68.40	19.37
	26 05 33 23-0607 EA Radiused Internal Elbow (Wiremold #5517FO)		56.54	19.37
	26 05 33 23-0608 EA External Elbow (Wiremold #5518)		57.73	19.37
	26 05 33 23-0609 EA Radiused External Elbow (Wiremold #5518FO)		60.23	19.37
	26 05 33 23-0610 EA Transition Fitting (Wiremold #5574)		55.35	19.37
	26 05 33 23-0611 EA Transition Fitting (Wiremold #5574A)		71.55	19.37
26 05 33 23-0612	Surface Cable Protection System <small>(26 05 33 23)</small>			
	26 05 33 23-0613 EA 35-1/2" Long x 18-9/16" Wide x 3" High, Three Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-3)		519.36	
	Note: Modular interlocking design with hinged lid.			
	26 05 33 23-0614 EA 35-3/4" Long x 19-3/4" Wide x 1-7/8" High, Five Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-5)		392.89	
	Note: Modular interlocking design with hinged lid.			
26 05 36	Cable Trays for Electrical Systems <small>(26 05)</small>			
	26 05 36 00-0001 Cable Trays <small>(26 05 36)</small>			
	Note: Excludes supporting hangers.			
	26 05 36 00-0002 Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0001)</small>			

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-0003		4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0002)</small>			
26 05 36 00-0004		4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>			
26 05 36 00-0005	LF	6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	42.34 -3.14		13.14
26 05 36 00-0006	LF	9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	45.71 -3.40		14.10
26 05 36 00-0007	LF	12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	49.93 -3.72		15.19
26 05 36 00-0008	LF	18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	55.35 -4.19		16.14
26 05 36 00-0009	LF	24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	60.50 -4.66		16.69
26 05 36 00-0010	LF	30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	73.46 -5.74		19.29
26 05 36 00-0011	LF	36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	82.53 -6.42		22.03
26 05 36 00-0012		6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>			
26 05 36 00-0013	LF	6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	40.05 -2.93		12.87
26 05 36 00-0014	LF	9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	43.28 -3.18		13.69
26 05 36 00-0015	LF	12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	46.25 -3.38		14.91
26 05 36 00-0016	LF	18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	50.53 -3.75		15.73
26 05 36 00-0017	LF	24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	54.32 -4.08		16.28
26 05 36 00-0018	LF	30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	63.76 -4.82		18.75
26 05 36 00-0019	LF	36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	69.70 -5.26		20.52
26 05 36 00-0020		9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>			
26 05 36 00-0021	LF	6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	38.65 -2.81		12.72
26 05 36 00-0022	LF	9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	39.84 -2.89		13.14
26 05 36 00-0023	LF	12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	43.74 -3.21		13.96
26 05 36 00-0024	LF	18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	47.77 -3.55		14.64
26 05 36 00-0025	LF	24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	51.56 -3.90		15.05
26 05 36 00-0026	LF	30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	56.18 -4.25		16.42
26 05 36 00-0027	LF	36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	60.41 -4.56		17.78
26 05 36 00-0028		12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>			
26 05 36 00-0029	LF	6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	37.47 -2.73		12.17
26 05 36 00-0030	LF	9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	38.25 -2.79		12.45
26 05 36 00-0031	LF	12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	40.49 -2.96		13.14
26 05 36 00-0032	LF	18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	42.87 -3.14		13.82
26 05 36 00-0033	LF	24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	44.50 -3.30		13.82
26 05 36 00-0034	LF	30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	49.10 -3.67		14.91
26 05 36 00-0035	LF	36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	51.70 -3.87		15.60
26 05 36 00-0036		18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-0003)</small>			
26 05 36 00-0037	LF	6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	36.94 -2.70		11.90
26 05 36 00-0038	LF	9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	37.60 -2.74		12.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0039 LF 12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	39.84	12.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.91	
26 05 36 00-0040 LF 18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	41.82	13.41
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.06	
26 05 36 00-0041 LF 24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	42.48	13.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.12	
26 05 36 00-0042 LF 30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	45.17	14.51
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.30	
26 05 36 00-0043 LF 36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	47.15	15.32
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.44	
26 05 36 00-0044 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small>		
26 05 36 00-0045 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0046 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	339.04	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.47	
26 05 36 00-0047 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	379.66	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.94	
26 05 36 00-0048 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	417.58	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.36	
26 05 36 00-0049 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	521.21	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.47	
26 05 36 00-0050 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	594.51	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.19	
26 05 36 00-0051 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	704.88	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.68	
26 05 36 00-0052 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	812.12	312.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.15	
26 05 36 00-0053 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0054 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	465.64	142.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.67	
26 05 36 00-0055 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	508.21	164.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.15	
26 05 36 00-0056 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	547.59	182.39
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.56	
26 05 36 00-0057 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	640.37	226.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.16	
26 05 36 00-0058 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	720.07	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.11	
26 05 36 00-0059 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	803.80	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.52	
26 05 36 00-0060 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	940.29	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.24	
26 05 36 00-0061 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0062 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	500.89	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.66	
26 05 36 00-0063 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	554.00	172.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.02	
26 05 36 00-0064 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	600.67	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.96	
26 05 36 00-0065 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	724.16	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.15	
26 05 36 00-0066 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	826.16	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0067	EA		30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	967.80	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.41	
26 05 36 00-0068	EA		36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,102.01	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.05	
26 05 36 00-0069			12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0070	EA		6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	251.58	99.47
			<i>For 60 Degree Bend, Deduct</i>	-44.90	
			<i>For 30 Degree Bend, Deduct</i>	-80.36	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.87	
26 05 36 00-0071	EA		9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	288.11	119.31
			<i>For 60 Degree Bend, Deduct</i>	-49.36	
			<i>For 30 Degree Bend, Deduct</i>	-88.89	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.87	
26 05 36 00-0072	EA		12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	320.91	136.83
			<i>For 60 Degree Bend, Deduct</i>	-53.45	
			<i>For 30 Degree Bend, Deduct</i>	-96.68	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.69	
26 05 36 00-0073	EA		18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	386.28	172.95
			<i>For 60 Degree Bend, Deduct</i>	-61.19	
			<i>For 30 Degree Bend, Deduct</i>	-111.59	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.22	
26 05 36 00-0074	EA		24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	479.16	211.80
			<i>For 60 Degree Bend, Deduct</i>	-76.93	
			<i>For 30 Degree Bend, Deduct</i>	-139.98	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.27	
26 05 36 00-0075	EA		30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	566.48	243.15
			<i>For 60 Degree Bend, Deduct</i>	-93.72	
			<i>For 30 Degree Bend, Deduct</i>	-169.71	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.38	
26 05 36 00-0076	EA		36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	643.95	285.42
			<i>For 60 Degree Bend, Deduct</i>	-103.08	
			<i>For 30 Degree Bend, Deduct</i>	-187.66	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.61	
26 05 36 00-0077			24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0078	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	279.57	102.62
			<i>For 60 Degree Bend, Deduct</i>	-52.94	
			<i>For 30 Degree Bend, Deduct</i>	-93.93	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.41	
26 05 36 00-0079	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	321.82	123.69
			<i>For 60 Degree Bend, Deduct</i>	-58.78	
			<i>For 30 Degree Bend, Deduct</i>	-104.83	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.87	
26 05 36 00-0080	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	367.70	142.85
			<i>For 60 Degree Bend, Deduct</i>	-66.59	
			<i>For 30 Degree Bend, Deduct</i>	-118.92	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.87	
26 05 36 00-0081	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	437.21	182.39
			<i>For 60 Degree Bend, Deduct</i>	-74.35	
			<i>For 30 Degree Bend, Deduct</i>	-134.04	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.52	
26 05 36 00-0082	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	538.75	226.58
			<i>For 60 Degree Bend, Deduct</i>	-90.95	
			<i>For 30 Degree Bend, Deduct</i>	-164.17	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.00	
26 05 36 00-0083	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	630.71	262.84
			<i>For 60 Degree Bend, Deduct</i>	-107.40	
			<i>For 30 Degree Bend, Deduct</i>	-193.59	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.17	
26 05 36 00-0084	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	742.20	312.92
			<i>For 60 Degree Bend, Deduct</i>	-124.99	
			<i>For 30 Degree Bend, Deduct</i>	-225.71	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0085				36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0086	EA			6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	332.35	105.91
				<i>For 60 Degree Bend, Deduct</i>	-69.10	
				<i>For 30 Degree Bend, Deduct</i>	-121.05	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.41	
26 05 36 00-0087	EA			9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	379.02	128.62
				<i>For 60 Degree Bend, Deduct</i>	-75.78	
				<i>For 30 Degree Bend, Deduct</i>	-133.45	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.19	
26 05 36 00-0088	EA			12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	416.98	149.28
				<i>For 60 Degree Bend, Deduct</i>	-80.38	
				<i>For 30 Degree Bend, Deduct</i>	-142.27	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.26	
26 05 36 00-0089	EA			18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	504.31	193.20
				<i>For 60 Degree Bend, Deduct</i>	-92.34	
				<i>For 30 Degree Bend, Deduct</i>	-164.64	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.33	
26 05 36 00-0090	EA			24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	598.01	243.15
				<i>For 60 Degree Bend, Deduct</i>	-104.13	
				<i>For 30 Degree Bend, Deduct</i>	-187.05	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.54	
26 05 36 00-0091	EA			30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	724.54	285.42
				<i>For 60 Degree Bend, Deduct</i>	-129.68	
				<i>For 30 Degree Bend, Deduct</i>	-231.98	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.67	
26 05 36 00-0092	EA			36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	852.69	345.49
				<i>For 60 Degree Bend, Deduct</i>	-148.94	
				<i>For 30 Degree Bend, Deduct</i>	-267.43	
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.48	
26 05 36 00-0093				12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0094	EA			6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	364.15	136.83
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.01	
26 05 36 00-0095	EA			9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.74	156.26
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.95	
26 05 36 00-0096	EA			12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	431.85	172.81
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.79	
26 05 36 00-0097	EA			18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	503.18	211.80
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.67	
26 05 36 00-0098	EA			24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	561.72	243.15
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.91	
26 05 36 00-0099	EA			30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	625.04	273.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.70	
26 05 36 00-0100	EA			36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	695.85	312.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.55	
26 05 36 00-0101				24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0102	EA			6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	430.29	142.71
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.14	
26 05 36 00-0103	EA			9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	470.76	164.19
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.39	
26 05 36 00-0104	EA			12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	508.99	182.39
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.70	
26 05 36 00-0105	EA			18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	593.44	226.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.47	
26 05 36 00-0106	EA			24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	664.82	262.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.58	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0107 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	736.53	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.79	
26 05 36 00-0108 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	844.93	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.70	
26 05 36 00-0109 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0110 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	508.28	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.40	
26 05 36 00-0111 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	556.99	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.30	
26 05 36 00-0112 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	594.29	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.32	
26 05 36 00-0113 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	699.38	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.67	
26 05 36 00-0114 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	772.97	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.51	
26 05 36 00-0115 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	885.20	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.15	
26 05 36 00-0116 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,002.77	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.13	
26 05 36 00-0117 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0118 EA 6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	655.99	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.70	
26 05 36 00-0119 EA 9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	710.02	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.21	
26 05 36 00-0120 EA 12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	744.48	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.59	
26 05 36 00-0121 EA 18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	830.39	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.67	
26 05 36 00-0122 EA 24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	939.47	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.57	
26 05 36 00-0123 EA 30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,041.15	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.91	
26 05 36 00-0124 EA 36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,178.38	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.37	
26 05 36 00-0125 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0126 EA 6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	817.40	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.95	
26 05 36 00-0127 EA 9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	879.36	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.86	
26 05 36 00-0128 EA 12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	918.24	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.46	
26 05 36 00-0129 EA 18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,007.80	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.40	
26 05 36 00-0130 EA 24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,120.15	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.81	
26 05 36 00-0131 EA 30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,204.41	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.97	
26 05 36 00-0132 EA 36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,450.99	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.97	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0133				36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0134	EA			6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,032.28	312.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.16	
26 05 36 00-0135	EA			9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,106.24	345.49
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.83	
26 05 36 00-0136	EA			12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,173.74	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.00	
26 05 36 00-0137	EA			18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,292.60	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.05	
26 05 36 00-0138	EA			24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,467.53	468.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.70	
26 05 36 00-0139	EA			30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,590.90	505.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.96	
26 05 36 00-0140	EA			36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,798.06	596.57
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.09	
26 05 36 00-0141				12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0142	EA			6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	776.22	243.15
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.36	
26 05 36 00-0143	EA			9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	795.44	252.71
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.48	
26 05 36 00-0144	EA			12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	815.43	262.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.64	
26 05 36 00-0145	EA			18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	859.70	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.18	
26 05 36 00-0146	EA			24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	887.64	298.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.90	
26 05 36 00-0147	EA			30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	963.79	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.01	
26 05 36 00-0148	EA			36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,040.33	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.65	
26 05 36 00-0149				24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0150	EA			6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,108.27	262.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.93	
26 05 36 00-0151	EA			9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,136.13	273.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.81	
26 05 36 00-0152	EA			12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,165.55	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.77	
26 05 36 00-0153	EA			18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.76	312.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.00	
26 05 36 00-0154	EA			24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.16	328.38
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.25	
26 05 36 00-0155	EA			30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,355.95	364.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.22	
26 05 36 00-0156	EA			36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,465.05	410.48
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.30	
26 05 36 00-0157				36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0158	EA			6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,728.46	285.42
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-149.06	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0159 EA 9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,766.17	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-151.76	
26 05 36 00-0160 EA 12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,806.68	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.60	
26 05 36 00-0161 EA 18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,877.38	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.94	
26 05 36 00-0162 EA 24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,925.36	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-162.16	
26 05 36 00-0163 EA 30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,050.73	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-170.87	
26 05 36 00-0164 EA 36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,163.84	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-177.34	
26 05 36 00-0165 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0166 EA 6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	817.37	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.37	
26 05 36 00-0167 EA 9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	858.95	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.10	
26 05 36 00-0168 EA 12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	916.69	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.29	
26 05 36 00-0169 EA 18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	982.58	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.05	
26 05 36 00-0170 EA 24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,106.80	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.21	
26 05 36 00-0171 EA 30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,233.26	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.28	
26 05 36 00-0172 EA 36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,346.87	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.56	
26 05 36 00-0173 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0174 EA 6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,131.44	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.77	
26 05 36 00-0175 EA 9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,184.32	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.22	
26 05 36 00-0176 EA 12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,240.54	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.85	
26 05 36 00-0177 EA 18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,321.55	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.69	
26 05 36 00-0178 EA 24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,473.76	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.25	
26 05 36 00-0179 EA 30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,585.71	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.96	
26 05 36 00-0180 EA 36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,775.29	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.81	
26 05 36 00-0181 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0182 EA 6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,416.24	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.42	
26 05 36 00-0183 EA 9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,494.00	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.93	
26 05 36 00-0184 EA 12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,578.16	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.77	
26 05 36 00-0185 EA 18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,721.05	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-129.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0186 EA 24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,970.51	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.33	
26 05 36 00-0187 EA 30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,150.35	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.39	
26 05 36 00-0188 EA 36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,356.14	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-174.75	
26 05 36 00-0189 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0190 EA 6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	938.90	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.52	
26 05 36 00-0191 EA 9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	986.53	345.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.85	
26 05 36 00-0192 EA 12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,055.68	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.19	
26 05 36 00-0193 EA 18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,135.11	386.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.29	
26 05 36 00-0194 EA 24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.65	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.20	
26 05 36 00-0195 EA 30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,437.13	468.77
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.65	
26 05 36 00-0196 EA 36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,572.79	504.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.20	
26 05 36 00-0197 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0198 EA 6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,367.18	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.34	
26 05 36 00-0199 EA 9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,427.38	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.53	
26 05 36 00-0200 EA 12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,490.92	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.89	
26 05 36 00-0201 EA 18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.03	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-122.34	
26 05 36 00-0202 EA 24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,757.82	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-133.66	
26 05 36 00-0203 EA 30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,888.80	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-143.27	
26 05 36 00-0204 EA 36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,126.70	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-162.95	
26 05 36 00-0205 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small>		
26 05 36 00-0206 EA 6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,745.69	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.36	
26 05 36 00-0207 EA 9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,838.09	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.34	
26 05 36 00-0208 EA 12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,936.89	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.64	
26 05 36 00-0209 EA 18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,116.39	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-169.51	
26 05 36 00-0210 EA 24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,409.78	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-191.26	
26 05 36 00-0211 EA 30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,626.22	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-207.98	
26 05 36 00-0212 EA 36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,868.61	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-226.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0213			6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-002)</small>		
26 05 36 00-0214			12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0215	EA		6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	323.27	137.24
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.89	
26 05 36 00-0216	EA		9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	362.64	156.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.24	
26 05 36 00-0217	EA		12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.06	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.51	
26 05 36 00-0218	EA		18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	497.18	211.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.07	
26 05 36 00-0219	EA		24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	567.48	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.48	
26 05 36 00-0220	EA		30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	669.34	273.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.13	
26 05 36 00-0221	EA		36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	770.57	312.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.99	
26 05 36 00-0222			24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0223	EA		6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	433.11	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.42	
26 05 36 00-0224	EA		9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	474.67	164.05
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.80	
26 05 36 00-0225	EA		12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	512.80	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.08	
26 05 36 00-0226	EA		18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	602.82	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.40	
26 05 36 00-0227	EA		24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	679.77	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.08	
26 05 36 00-0228	EA		30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	760.00	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.14	
26 05 36 00-0229	EA		36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	888.23	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.03	
26 05 36 00-0230			36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0231	EA		6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.85	149.14
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.06	
26 05 36 00-0232	EA		9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	515.96	172.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.21	
26 05 36 00-0233	EA		12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	560.88	193.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.98	
26 05 36 00-0234	EA		18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	678.61	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.60	
26 05 36 00-0235	EA		24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	776.10	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.82	
26 05 36 00-0236	EA		30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	907.73	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.41	
26 05 36 00-0237	EA		36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,036.44	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.50	
26 05 36 00-0238			12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0239 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	239.32	99.47
<i>For 60 Degree Bend, Deduct</i>	-40.86	
<i>For 30 Degree Bend, Deduct</i>	-73.62	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.65	
26 05 36 00-0240 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	275.35	119.31
<i>For 60 Degree Bend, Deduct</i>	-45.15	
<i>For 30 Degree Bend, Deduct</i>	-81.88	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.60	
26 05 36 00-0241 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	307.64	136.83
<i>For 60 Degree Bend, Deduct</i>	-49.07	
<i>For 30 Degree Bend, Deduct</i>	-89.38	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.36	
26 05 36 00-0242 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	372.27	172.95
<i>For 60 Degree Bend, Deduct</i>	-56.57	
<i>For 30 Degree Bend, Deduct</i>	-103.89	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.82	
26 05 36 00-0243 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	461.14	211.80
<i>For 60 Degree Bend, Deduct</i>	-70.98	
<i>For 30 Degree Bend, Deduct</i>	-130.07	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.46	
26 05 36 00-0244 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	543.45	243.15
<i>For 60 Degree Bend, Deduct</i>	-86.12	
<i>For 30 Degree Bend, Deduct</i>	-157.05	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.08	
26 05 36 00-0245 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	619.92	285.42
<i>For 60 Degree Bend, Deduct</i>	-95.15	
<i>For 30 Degree Bend, Deduct</i>	-174.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.20	
26 05 36 00-0246 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0247 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	264.05	102.62
<i>For 60 Degree Bend, Deduct</i>	-47.82	
<i>For 30 Degree Bend, Deduct</i>	-85.40	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.86	
26 05 36 00-0248 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	305.31	123.69
<i>For 60 Degree Bend, Deduct</i>	-53.33	
<i>For 30 Degree Bend, Deduct</i>	-95.75	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.22	
26 05 36 00-0249 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	349.18	142.85
<i>For 60 Degree Bend, Deduct</i>	-60.48	
<i>For 30 Degree Bend, Deduct</i>	-108.73	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.02	
26 05 36 00-0250 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	418.19	182.39
<i>For 60 Degree Bend, Deduct</i>	-68.07	
<i>For 30 Degree Bend, Deduct</i>	-123.58	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.62	
26 05 36 00-0251 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	515.72	226.58
<i>For 60 Degree Bend, Deduct</i>	-83.35	
<i>For 30 Degree Bend, Deduct</i>	-151.50	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.69	
26 05 36 00-0252 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	603.18	262.84
<i>For 60 Degree Bend, Deduct</i>	-98.31	
<i>For 30 Degree Bend, Deduct</i>	-178.45	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.42	
26 05 36 00-0253 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	710.66	312.92
<i>For 60 Degree Bend, Deduct</i>	-114.59	
<i>For 30 Degree Bend, Deduct</i>	-208.36	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.99	
26 05 36 00-0254 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0255 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	310.08	105.91
<i>For 60 Degree Bend, Deduct</i>	-61.75	
<i>For 30 Degree Bend, Deduct</i>	-108.80	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.19	

26 Electrical
26 05 Common Work Results for Electrical
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0256	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	355.49	128.62
			<i>For 60 Degree Bend, Deduct</i>	-68.02	
			<i>For 30 Degree Bend, Deduct</i>	-120.50	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.83	
26 05 36 00-0257	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	392.95	149.28
			<i>For 60 Degree Bend, Deduct</i>	-72.45	
			<i>For 30 Degree Bend, Deduct</i>	-129.05	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.86	
26 05 36 00-0258	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	478.28	193.20
			<i>For 60 Degree Bend, Deduct</i>	-83.75	
			<i>For 30 Degree Bend, Deduct</i>	-150.32	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.72	
26 05 36 00-0259	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	570.48	243.15
			<i>For 60 Degree Bend, Deduct</i>	-95.04	
			<i>For 30 Degree Bend, Deduct</i>	-171.91	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.78	
26 05 36 00-0260	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	689.00	285.42
			<i>For 60 Degree Bend, Deduct</i>	-117.95	
			<i>For 30 Degree Bend, Deduct</i>	-212.44	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.11	
26 05 36 00-0261	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	813.15	345.49
			<i>For 60 Degree Bend, Deduct</i>	-135.89	
			<i>For 30 Degree Bend, Deduct</i>	-245.68	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.52	
26 05 36 00-0262			12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0263	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	353.26	136.83
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.92	
26 05 36 00-0264	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	388.61	156.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.84	
26 05 36 00-0265	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.33	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.64	
26 05 36 00-0266	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	491.17	211.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.47	
26 05 36 00-0267	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	549.21	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.66	
26 05 36 00-0268	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	611.52	273.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.35	
26 05 36 00-0269	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	681.84	312.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.15	
26 05 36 00-0270			24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0271	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	414.90	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.60	
26 05 36 00-0272	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	455.00	164.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.82	
26 05 36 00-0273	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	492.59	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.06	
26 05 36 00-0274	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	576.17	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.74	
26 05 36 00-0275	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	646.67	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.77	
26 05 36 00-0276	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	717.38	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.88	
26 05 36 00-0277	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	823.41	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.55	
26 05 36 00-0278			36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0279 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	487.50	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.32	
26 05 36 00-0280 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	535.47	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.15	
26 05 36 00-0281 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	572.52	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.15	
26 05 36 00-0282 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	675.85	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.32	
26 05 36 00-0283 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	749.19	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.13	
26 05 36 00-0284 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	858.17	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.45	
26 05 36 00-0285 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	973.99	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.25	
26 05 36 00-0286 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0287 EA 6" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	639.22	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.02	
26 05 36 00-0288 EA 9" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	692.00	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.41	
26 05 36 00-0289 EA 12" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	725.46	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.69	
26 05 36 00-0290 EA 18" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	808.61	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.50	
26 05 36 00-0291 EA 24" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	913.94	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.02	
26 05 36 00-0292 EA 30" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,010.62	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.85	
26 05 36 00-0293 EA 36" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,143.84	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.92	
26 05 36 00-0294 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0295 EA 6" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	791.12	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.32	
26 05 36 00-0296 EA 9" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	851.82	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.11	
26 05 36 00-0297 EA 12" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	889.71	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.61	
26 05 36 00-0298 EA 18" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	977.01	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.32	
26 05 36 00-0299 EA 24" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,086.61	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.45	
26 05 36 00-0300 EA 30" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,167.87	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.32	
26 05 36 00-0301 EA 36" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,404.18	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.29	
26 05 36 00-0302 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0303 EA 6" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	992.99	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.23	
26 05 36 00-0304 EA 9" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,065.44	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.75	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0305	EA	12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,130.19	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.64	
26 05 36 00-0306	EA	18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,245.79	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.37	
26 05 36 00-0307	EA	24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,414.72	468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.42	
26 05 36 00-0308	EA	30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,533.33	505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.21	
26 05 36 00-0309	EA	36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,736.24	596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.91	
26 05 36 00-0310		12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0311	EA	6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	747.69	243.15
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.50	
26 05 36 00-0312	EA	9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	766.66	252.71
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.60	
26 05 36 00-0313	EA	12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	786.40	262.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.74	
26 05 36 00-0314	EA	18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	830.16	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.23	
26 05 36 00-0315	EA	24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	857.61	298.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.90	
26 05 36 00-0316	EA	30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	931.76	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.81	
26 05 36 00-0317	EA	36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,007.04	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.33	
26 05 36 00-0318		24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0319	EA	6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,056.71	262.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.77	
26 05 36 00-0320	EA	9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,083.82	273.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.58	
26 05 36 00-0321	EA	12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,112.49	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.46	
26 05 36 00-0322	EA	18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,176.20	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.55	
26 05 36 00-0323	EA	24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,220.09	328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.64	
26 05 36 00-0324	EA	30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,298.38	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.46	
26 05 36 00-0325	EA	36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,404.98	410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.29	
26 05 36 00-0326		36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0327	EA	6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,632.09	285.42
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.42	
26 05 36 00-0328	EA	9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,668.55	298.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-142.00	
26 05 36 00-0329	EA	12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,707.82	312.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-144.71	
26 05 36 00-0330	EA	18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,777.27	345.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.93	
26 05 36 00-0331	EA	24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,823.99	364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0332 EA 30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,945.61	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.35	
26 05 36 00-0333 EA 36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,057.46	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-166.70	
26 05 36 00-0334 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-02 13)</small>		
26 05 36 00-0335 EA 6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	796.60	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.29	
26 05 36 00-0336 EA 9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	837.17	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.92	
26 05 36 00-0337 EA 12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	892.91	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.91	
26 05 36 00-0338 EA 18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	956.55	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.45	
26 05 36 00-0339 EA 24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,077.77	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.31	
26 05 36 00-0340 EA 30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,198.47	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.80	
26 05 36 00-0341 EA 36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,308.07	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.68	
26 05 36 00-0342 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-02 13)</small>		
26 05 36 00-0343 EA 6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,091.14	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.74	
26 05 36 00-0344 EA 9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,142.77	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.07	
26 05 36 00-0345 EA 12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,197.74	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.57	
26 05 36 00-0346 EA 18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.00	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.13	
26 05 36 00-0347 EA 24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,425.21	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.39	
26 05 36 00-0348 EA 30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,533.90	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.78	
26 05 36 00-0349 EA 36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,715.22	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.80	
26 05 36 00-0350 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-02 13)</small>		
26 05 36 00-0351 EA 6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,359.93	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.79	
26 05 36 00-0352 EA 9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,435.18	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.05	
26 05 36 00-0353 EA 12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.84	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.64	
26 05 36 00-0354 EA 18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,653.47	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.22	
26 05 36 00-0355 EA 24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,895.43	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.82	
26 05 36 00-0356 EA 30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,069.00	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.26	
26 05 36 00-0357 EA 36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,268.54	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-165.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0358			12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0359	EA		6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	908.78	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.51	
26 05 36 00-0360	EA		9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	954.96	345.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.69	
26 05 36 00-0361	EA		12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,021.20	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.75	
26 05 36 00-0362	EA		18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,097.37	386.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.52	
26 05 36 00-0363	EA		24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,234.55	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.99	
26 05 36 00-0364	EA		30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,386.68	468.77
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.60	
26 05 36 00-0365	EA		36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.53	504.89
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.58	
26 05 36 00-0366			24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0367	EA		6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,308.75	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.50	
26 05 36 00-0368	EA		9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,367.13	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.50	
26 05 36 00-0369	EA		12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,428.86	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.68	
26 05 36 00-0370	EA		18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,521.98	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.73	
26 05 36 00-0371	EA		24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,687.41	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-126.61	
26 05 36 00-0372	EA		30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,813.68	547.31
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-135.76	
26 05 36 00-0373	EA		36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,039.60	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.24	
26 05 36 00-0374			36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small>		
26 05 36 00-0375	EA		6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,664.03	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-132.20	
26 05 36 00-0376	EA		9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,752.80	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-138.81	
26 05 36 00-0377	EA		12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,847.97	468.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-145.75	
26 05 36 00-0378	EA		18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,018.40	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-159.71	
26 05 36 00-0379	EA		24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,300.90	596.57
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-180.37	
26 05 36 00-0380	EA		30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,508.27	655.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-196.18	
26 05 36 00-0381	EA		36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,741.59	730.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-213.29	
26 05 36 00-0382			9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small>		
26 05 36 00-0383			12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0384 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	307.50	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.32	
26 05 36 00-0385 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	345.62	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.54	
26 05 36 00-0386 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	380.54	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.66	
26 05 36 00-0387 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	473.15	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.66	
26 05 36 00-0388 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	540.45	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.78	
26 05 36 00-0389 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	633.80	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.58	
26 05 36 00-0390 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	729.02	312.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.84	
26 05 36 00-0391 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0392 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	400.57	142.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.16	
26 05 36 00-0393 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	441.14	164.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.44	
26 05 36 00-0394 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	478.01	182.39
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.60	
26 05 36 00-0395 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	565.28	226.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.65	
26 05 36 00-0396 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	639.47	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.05	
26 05 36 00-0397 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	716.19	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.76	
26 05 36 00-0398 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	836.17	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.82	
26 05 36 00-0399 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0400 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	428.81	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.45	
26 05 36 00-0401 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	477.91	172.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.41	
26 05 36 00-0402 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	521.08	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.00	
26 05 36 00-0403 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	633.05	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.04	
26 05 36 00-0404 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	726.04	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.82	
26 05 36 00-0405 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	847.66	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.40	
26 05 36 00-0406 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	970.86	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.94	
26 05 36 00-0407 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0408 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	227.05	99.47
<i>For 60 Degree Bend, Deduct</i>	-36.81	
<i>For 30 Degree Bend, Deduct</i>	-66.87	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-14.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0409 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	262.58	119.31
For 60 Degree Bend, Deduct	-40.94	
For 30 Degree Bend, Deduct	-74.85	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.32	
26 05 36 00-0410 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	294.38	136.83
For 60 Degree Bend, Deduct	-44.69	
For 30 Degree Bend, Deduct	-82.09	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.04	
26 05 36 00-0411 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	358.25	172.95
For 60 Degree Bend, Deduct	-51.94	
For 30 Degree Bend, Deduct	-96.18	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.42	
26 05 36 00-0412 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	443.11	211.80
For 60 Degree Bend, Deduct	-65.03	
For 30 Degree Bend, Deduct	-120.16	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.66	
26 05 36 00-0413 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	520.42	243.15
For 60 Degree Bend, Deduct	-78.52	
For 30 Degree Bend, Deduct	-144.38	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.78	
26 05 36 00-0414 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	595.89	285.42
For 60 Degree Bend, Deduct	-87.22	
For 30 Degree Bend, Deduct	-161.23	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.80	
26 05 36 00-0415 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0416 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	248.53	102.62
For 60 Degree Bend, Deduct	-42.70	
For 30 Degree Bend, Deduct	-76.86	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.31	
26 05 36 00-0417 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	288.79	123.69
For 60 Degree Bend, Deduct	-47.88	
For 30 Degree Bend, Deduct	-86.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.57	
26 05 36 00-0418 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	330.66	142.85
For 60 Degree Bend, Deduct	-54.37	
For 30 Degree Bend, Deduct	-98.55	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.16	
26 05 36 00-0419 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	399.17	182.39
For 60 Degree Bend, Deduct	-61.79	
For 30 Degree Bend, Deduct	-113.12	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.71	
26 05 36 00-0420 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	492.69	226.58
For 60 Degree Bend, Deduct	-75.75	
For 30 Degree Bend, Deduct	-138.83	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.39	
26 05 36 00-0421 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	575.65	262.84
For 60 Degree Bend, Deduct	-89.23	
For 30 Degree Bend, Deduct	-163.31	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.67	
26 05 36 00-0422 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	679.12	312.92
For 60 Degree Bend, Deduct	-104.18	
For 30 Degree Bend, Deduct	-191.01	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.84	
26 05 36 00-0423 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0424 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	287.80	105.91
For 60 Degree Bend, Deduct	-54.40	
For 30 Degree Bend, Deduct	-96.54	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.96	
26 05 36 00-0425 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	331.97	128.62
For 60 Degree Bend, Deduct	-60.25	
For 30 Degree Bend, Deduct	-107.57	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0426 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	368.92	149.28
<i>For 60 Degree Bend, Deduct</i>	-64.52	
<i>For 30 Degree Bend, Deduct</i>	-115.83	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.45	
26 05 36 00-0427 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	452.25	193.20
<i>For 60 Degree Bend, Deduct</i>	-75.16	
<i>For 30 Degree Bend, Deduct</i>	-136.00	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.12	
26 05 36 00-0428 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	542.95	243.15
<i>For 60 Degree Bend, Deduct</i>	-85.96	
<i>For 30 Degree Bend, Deduct</i>	-156.77	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.03	
26 05 36 00-0429 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	653.46	285.42
<i>For 60 Degree Bend, Deduct</i>	-106.22	
<i>For 30 Degree Bend, Deduct</i>	-192.89	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.56	
26 05 36 00-0430 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	773.60	345.49
<i>For 60 Degree Bend, Deduct</i>	-122.84	
<i>For 30 Degree Bend, Deduct</i>	-223.93	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.57	
26 05 36 00-0431 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0432 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	336.93	136.83
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.29	
26 05 36 00-0433 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	371.90	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.16	
26 05 36 00-0434 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	403.06	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.91	
26 05 36 00-0435 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	473.15	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.66	
26 05 36 00-0436 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	530.44	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.78	
26 05 36 00-0437 EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	591.25	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.32	
26 05 36 00-0438 EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	660.81	312.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.05	
26 05 36 00-0439 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0440 EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	391.81	142.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.29	
26 05 36 00-0441 EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	431.34	164.19
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.45	
26 05 36 00-0442 EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	468.00	182.39
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.60	
26 05 36 00-0443 EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	550.26	226.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.15	
26 05 36 00-0444 EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	619.45	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.05	
26 05 36 00-0445 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	688.66	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.01	
26 05 36 00-0446 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	791.12	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.32	
26 05 36 00-0447 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0448 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	456.34	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.20	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0449 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	503.18	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.92	
26 05 36 00-0450 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	539.85	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.88	
26 05 36 00-0451 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	640.56	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.79	
26 05 36 00-0452 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	713.53	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.57	
26 05 36 00-0453 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	817.62	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.40	
26 05 36 00-0454 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	930.81	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.93	
26 05 36 00-0455 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0456 EA 6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	605.69	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.67	
26 05 36 00-0457 EA 9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	655.96	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.81	
26 05 36 00-0458 EA 12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	687.41	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.88	
26 05 36 00-0459 EA 18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	765.06	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.14	
26 05 36 00-0460 EA 24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	862.88	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.91	
26 05 36 00-0461 EA 30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	949.55	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.75	
26 05 36 00-0462 EA 36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,074.76	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.01	
26 05 36 00-0463 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0464 EA 6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	738.56	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.07	
26 05 36 00-0465 EA 9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	796.76	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.60	
26 05 36 00-0466 EA 12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	832.64	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.90	
26 05 36 00-0467 EA 18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	915.44	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.17	
26 05 36 00-0468 EA 24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,019.53	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.75	
26 05 36 00-0469 EA 30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,094.78	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.01	
26 05 36 00-0470 EA 36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,310.57	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.93	
26 05 36 00-0471 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0472 EA 6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	914.40	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.37	
26 05 36 00-0473 EA 9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	983.84	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.59	
26 05 36 00-0474 EA 12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,043.09	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.93	
26 05 36 00-0475 EA 18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,152.18	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0476 EA 24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,309.09	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.86	
26 05 36 00-0477 EA 30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,418.20	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.69	
26 05 36 00-0478 EA 36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,612.60	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.54	
26 05 36 00-0479 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0480 EA 6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	690.62	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.80	
26 05 36 00-0481 EA 9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	709.09	252.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.85	
26 05 36 00-0482 EA 12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	728.33	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.93	
26 05 36 00-0483 EA 18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	771.09	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.32	
26 05 36 00-0484 EA 24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	797.54	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.89	
26 05 36 00-0485 EA 30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	867.68	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.40	
26 05 36 00-0486 EA 36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	940.47	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.67	
26 05 36 00-0487 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0488 EA 6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	953.59	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.46	
26 05 36 00-0489 EA 9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	979.20	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.12	
26 05 36 00-0490 EA 12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,006.37	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.85	
26 05 36 00-0491 EA 18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,067.07	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.64	
26 05 36 00-0492 EA 24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,107.96	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.43	
26 05 36 00-0493 EA 30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,183.25	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.95	
26 05 36 00-0494 EA 36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,284.84	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.28	
26 05 36 00-0495 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0382)		
26 05 36 00-0496 EA 6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,439.37	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.15	
26 05 36 00-0497 EA 9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,473.32	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-122.47	
26 05 36 00-0498 EA 12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,510.09	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-124.94	
26 05 36 00-0499 EA 18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,577.03	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.91	
26 05 36 00-0500 EA 24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,621.26	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-131.75	
26 05 36 00-0501 EA 30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,735.36	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.33	
26 05 36 00-0502 EA 36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,844.72	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-145.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 36 00-0503		12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>			
26 05 36 00-0504	EA	6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	755.05		328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.14		
26 05 36 00-0505	EA	9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	793.62		345.49
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.57		
26 05 36 00-0506	EA	12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	845.36		364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.16		
26 05 36 00-0507	EA	18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	904.49		386.54
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.24		
26 05 36 00-0508	EA	24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,019.70		437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.50		
26 05 36 00-0509	EA	30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,128.88		468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.84		
26 05 36 00-0510	EA	36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,230.48		505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.92		
26 05 36 00-0511		24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>			
26 05 36 00-0512	EA	6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,010.55		364.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.68		
26 05 36 00-0513	EA	9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,059.67		386.54
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.76		
26 05 36 00-0514	EA	12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,112.14		410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.01		
26 05 36 00-0515	EA	18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,184.89		437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.02		
26 05 36 00-0516	EA	24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,328.09		505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.68		
26 05 36 00-0517	EA	30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,430.28		547.31
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.42		
26 05 36 00-0518	EA	36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,595.08		596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.79		
26 05 36 00-0519		36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>			
26 05 36 00-0520	EA	6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,247.29		410.48
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.52		
26 05 36 00-0521	EA	9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,317.54		437.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.29		
26 05 36 00-0522	EA	12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,394.19		468.63
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.37		
26 05 36 00-0523	EA	18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,518.32		505.58
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.71		
26 05 36 00-0524	EA	24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,745.25		596.57
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-124.81		
26 05 36 00-0525	EA	30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,906.32		655.67
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-135.99		
26 05 36 00-0526	EA	36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,093.34		730.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.47		
26 05 36 00-0527		12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>			
26 05 36 00-0528	EA	6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	848.54		328.38
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.49		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0529 EA 9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	891.81	345.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.38	
26 05 36 00-0530 EA 12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	952.25	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.85	
26 05 36 00-0531 EA 18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,021.88	386.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.97	
26 05 36 00-0532 EA 24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,150.35	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.57	
26 05 36 00-0533 EA 30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,285.79	468.77
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.51	
26 05 36 00-0534 EA 36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,404.03	504.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.33	
26 05 36 00-0535 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0536 EA 6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,191.88	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.81	
26 05 36 00-0537 EA 9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,246.64	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.45	
26 05 36 00-0538 EA 12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,304.74	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-96.27	
26 05 36 00-0539 EA 18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,389.88	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.52	
26 05 36 00-0540 EA 24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,546.60	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.53	
26 05 36 00-0541 EA 30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,663.43	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.73	
26 05 36 00-0542 EA 36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,865.39	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-136.82	
26 05 36 00-0543 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small>		
26 05 36 00-0544 EA 6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,500.71	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.86	
26 05 36 00-0545 EA 9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,582.23	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.76	
26 05 36 00-0546 EA 12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,670.14	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.97	
26 05 36 00-0547 EA 18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,822.42	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.12	
26 05 36 00-0548 EA 24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,083.15	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.60	
26 05 36 00-0549 EA 30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,272.37	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-172.59	
26 05 36 00-0550 EA 36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,487.55	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-187.89	
26 05 36 00-0551 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small>		
26 05 36 00-0552 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0553 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	301.98	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.77	
26 05 36 00-0554 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	339.66	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0555	EA		12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	374.06	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.01	
26 05 36 00-0556	EA		18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.74	211.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.82	
26 05 36 00-0557	EA		24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	530.99	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.83	
26 05 36 00-0558	EA		30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	621.36	273.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.33	
26 05 36 00-0559	EA		36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	714.48	312.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.38	
26 05 36 00-0560			24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0561	EA		6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	389.18	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.02	
26 05 36 00-0562	EA		9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	429.40	164.05
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.27	
26 05 36 00-0563	EA		12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	465.84	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.38	
26 05 36 00-0564	EA		18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	552.14	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.34	
26 05 36 00-0565	EA		24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	625.37	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.64	
26 05 36 00-0566	EA		30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	700.86	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.23	
26 05 36 00-0567	EA		36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	817.95	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.00	
26 05 36 00-0568			36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0569	EA		6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	416.19	149.14
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.19	
26 05 36 00-0570	EA		9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.60	172.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.08	
26 05 36 00-0571	EA		12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	507.15	193.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.61	
26 05 36 00-0572	EA		18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	617.11	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.45	
26 05 36 00-0573	EA		24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	708.52	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.06	
26 05 36 00-0574	EA		30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	826.63	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.30	
26 05 36 00-0575	EA		36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	947.91	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.64	
26 05 36 00-0576			12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0577	EA		6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	222.76	99.47
			<i>For 60 Degree Bend, Deduct</i>	-35.39	
			<i>For 30 Degree Bend, Deduct</i>	-64.51	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-13.99	
26 05 36 00-0578	EA		9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	258.12	119.31
			<i>For 60 Degree Bend, Deduct</i>	-39.46	
			<i>For 30 Degree Bend, Deduct</i>	-72.40	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.87	
26 05 36 00-0579	EA		12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	289.73	136.83
			<i>For 60 Degree Bend, Deduct</i>	-43.16	
			<i>For 30 Degree Bend, Deduct</i>	-79.53	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0580 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	353.35	172.95
<i>For 60 Degree Bend, Deduct</i>	-50.33	
<i>For 30 Degree Bend, Deduct</i>	-93.48	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.93	
26 05 36 00-0581 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	436.81	211.80
<i>For 60 Degree Bend, Deduct</i>	-62.96	
<i>For 30 Degree Bend, Deduct</i>	-116.69	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.03	
26 05 36 00-0582 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	512.36	243.15
<i>For 60 Degree Bend, Deduct</i>	-75.86	
<i>For 30 Degree Bend, Deduct</i>	-139.95	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.97	
26 05 36 00-0583 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	587.48	285.42
<i>For 60 Degree Bend, Deduct</i>	-84.45	
<i>For 30 Degree Bend, Deduct</i>	-156.60	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.96	
26 05 36 00-0584 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0585 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	243.10	102.62
<i>For 60 Degree Bend, Deduct</i>	-40.91	
<i>For 30 Degree Bend, Deduct</i>	-73.88	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.76	
26 05 36 00-0586 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	283.00	123.69
<i>For 60 Degree Bend, Deduct</i>	-45.97	
<i>For 30 Degree Bend, Deduct</i>	-83.48	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.99	
26 05 36 00-0587 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	324.18	142.85
<i>For 60 Degree Bend, Deduct</i>	-52.23	
<i>For 30 Degree Bend, Deduct</i>	-94.98	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.52	
26 05 36 00-0588 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	392.51	182.39
<i>For 60 Degree Bend, Deduct</i>	-59.59	
<i>For 30 Degree Bend, Deduct</i>	-109.46	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.05	
26 05 36 00-0589 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	484.63	226.58
<i>For 60 Degree Bend, Deduct</i>	-73.09	
<i>For 30 Degree Bend, Deduct</i>	-134.40	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.59	
26 05 36 00-0590 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	566.01	262.84
<i>For 60 Degree Bend, Deduct</i>	-86.05	
<i>For 30 Degree Bend, Deduct</i>	-158.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.70	
26 05 36 00-0591 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	668.09	312.92
<i>For 60 Degree Bend, Deduct</i>	-100.54	
<i>For 30 Degree Bend, Deduct</i>	-184.95	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.74	
26 05 36 00-0592 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0593 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	280.00	105.91
<i>For 60 Degree Bend, Deduct</i>	-51.82	
<i>For 30 Degree Bend, Deduct</i>	-92.25	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.18	
26 05 36 00-0594 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	323.73	128.62
<i>For 60 Degree Bend, Deduct</i>	-57.54	
<i>For 30 Degree Bend, Deduct</i>	-103.04	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.66	
26 05 36 00-0595 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	360.51	149.28
<i>For 60 Degree Bend, Deduct</i>	-61.75	
<i>For 30 Degree Bend, Deduct</i>	-111.21	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.61	
26 05 36 00-0596 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	443.14	193.20
<i>For 60 Degree Bend, Deduct</i>	-72.15	
<i>For 30 Degree Bend, Deduct</i>	-130.99	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.21	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0597	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	533.31	243.15
			<i>For 60 Degree Bend, Deduct</i>	-82.78	
			<i>For 30 Degree Bend, Deduct</i>	-151.47	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.07	
26 05 36 00-0598	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	641.02	285.42
			<i>For 60 Degree Bend, Deduct</i>	-102.11	
			<i>For 30 Degree Bend, Deduct</i>	-186.05	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.31	
26 05 36 00-0599	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	759.76	345.49
			<i>For 60 Degree Bend, Deduct</i>	-118.27	
			<i>For 30 Degree Bend, Deduct</i>	-216.31	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.18	
26 05 36 00-0600			12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0601	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	329.31	136.83
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.53	
26 05 36 00-0602	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	364.10	156.26
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.38	
26 05 36 00-0603	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	395.00	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.10	
26 05 36 00-0604	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	464.74	211.80
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.82	
26 05 36 00-0605	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	521.68	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.90	
26 05 36 00-0606	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	581.79	273.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.37	
26 05 36 00-0607	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	651.00	312.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.07	
26 05 36 00-0608			24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0609	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	381.03	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.21	
26 05 36 00-0610	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	420.31	164.19
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.35	
26 05 36 00-0611	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	456.52	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.45	
26 05 36 00-0612	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	538.17	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.94	
26 05 36 00-0613	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	606.75	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.78	
26 05 36 00-0614	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	675.26	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.67	
26 05 36 00-0615	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	776.05	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.81	
26 05 36 00-0616			36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0617	EA		6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	441.80	149.14
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.75	
26 05 36 00-0618	EA		9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	488.11	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.41	
26 05 36 00-0619	EA		12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	524.61	193.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.36	
26 05 36 00-0620	EA		18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	624.09	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.14	
26 05 36 00-0621	EA		24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	696.88	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0622 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	798.70	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.50	
26 05 36 00-0623 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	910.67	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.92	
26 05 36 00-0624 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0625 EA 6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	588.92	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.99	
26 05 36 00-0626 EA 9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	637.94	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.01	
26 05 36 00-0627 EA 12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	668.39	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.98	
26 05 36 00-0628 EA 18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	743.29	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.96	
26 05 36 00-0629 EA 24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	837.35	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.36	
26 05 36 00-0630 EA 30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	919.01	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.69	
26 05 36 00-0631 EA 36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,040.22	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.55	
26 05 36 00-0632 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0633 EA 6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	712.27	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.44	
26 05 36 00-0634 EA 9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	769.23	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.85	
26 05 36 00-0635 EA 12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	804.11	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.05	
26 05 36 00-0636 EA 18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	884.65	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.09	
26 05 36 00-0637 EA 24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	985.99	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.39	
26 05 36 00-0638 EA 30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,058.24	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.36	
26 05 36 00-0639 EA 36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,263.77	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.25	
26 05 36 00-0640 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0641 EA 6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	875.10	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.44	
26 05 36 00-0642 EA 9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	943.05	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.51	
26 05 36 00-0643 EA 12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	999.54	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.58	
26 05 36 00-0644 EA 18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,105.38	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.33	
26 05 36 00-0645 EA 24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,256.28	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.58	
26 05 36 00-0646 EA 30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,360.63	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.94	
26 05 36 00-0647 EA 36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,550.78	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0648 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0649 EA 6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	662.09	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.94	
26 05 36 00-0650 EA 9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	680.31	252.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.97	
26 05 36 00-0651 EA 12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	699.29	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.03	
26 05 36 00-0652 EA 18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	741.56	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.37	
26 05 36 00-0653 EA 24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	767.50	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.89	
26 05 36 00-0654 EA 30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	835.65	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.20	
26 05 36 00-0655 EA 36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	907.18	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.34	
26 05 36 00-0656 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0657 EA 6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	902.03	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.30	
26 05 36 00-0658 EA 9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	926.89	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.88	
26 05 36 00-0659 EA 12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	953.31	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.54	
26 05 36 00-0660 EA 18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,012.51	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.18	
26 05 36 00-0661 EA 24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,051.90	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.82	
26 05 36 00-0662 EA 30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,125.68	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.19	
26 05 36 00-0663 EA 36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,224.77	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.27	
26 05 36 00-0664 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0665 EA 6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,343.01	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.51	
26 05 36 00-0666 EA 9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,375.71	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.71	
26 05 36 00-0667 EA 12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,411.22	312.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.05	
26 05 36 00-0668 EA 18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,476.92	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.90	
26 05 36 00-0669 EA 24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,519.89	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.61	
26 05 36 00-0670 EA 30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,630.24	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.82	
26 05 36 00-0671 EA 36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,738.34	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-134.79	
26 05 36 00-0672 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0673 EA 6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	734.28	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0674 EA 9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	771.85	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.39	
26 05 36 00-0675 EA 12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	821.58	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.78	
26 05 36 00-0676 EA 18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	878.46	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.64	
26 05 36 00-0677 EA 24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	990.66	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.60	
26 05 36 00-0678 EA 30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,094.09	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.36	
26 05 36 00-0679 EA 36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,191.69	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.04	
26 05 36 00-0680 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0681 EA 6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	970.25	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.65	
26 05 36 00-0682 EA 9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,018.12	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.60	
26 05 36 00-0683 EA 12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,069.34	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.73	
26 05 36 00-0684 EA 18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,139.34	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.47	
26 05 36 00-0685 EA 24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,279.54	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.83	
26 05 36 00-0686 EA 30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,378.47	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.24	
26 05 36 00-0687 EA 36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,535.01	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.78	
26 05 36 00-0688 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0689 EA 6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,190.98	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.89	
26 05 36 00-0690 EA 9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,258.73	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.41	
26 05 36 00-0691 EA 12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,332.87	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.24	
26 05 36 00-0692 EA 18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,450.74	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.95	
26 05 36 00-0693 EA 24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,670.17	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-117.30	
26 05 36 00-0694 EA 30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,824.97	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.85	
26 05 36 00-0695 EA 36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,005.74	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.71	
26 05 36 00-0696 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small>		
26 05 36 00-0697 EA 6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	818.41	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.48	
26 05 36 00-0698 EA 9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	860.24	345.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.22	
26 05 36 00-0699 EA 12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	917.77	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.40	
26 05 36 00-0700 EA 18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	984.13	386.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0701 EA 24" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,108.25	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.36	
26 05 36 00-0702 EA 30" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,235.35	468.77
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.47	
26 05 36 00-0703 EA 36" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,347.78	504.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.70	
26 05 36 00-0704 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0705 EA 6" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,133.45	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.97	
26 05 36 00-0706 EA 9" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,186.40	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.43	
26 05 36 00-0707 EA 12" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,242.68	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-90.06	
26 05 36 00-0708 EA 18" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,323.83	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.92	
26 05 36 00-0709 EA 24" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,476.19	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.49	
26 05 36 00-0710 EA 30" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.30	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-113.22	
26 05 36 00-0711 EA 36" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,778.29	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.11	
26 05 36 00-0712 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)		
26 05 36 00-0713 EA 6" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,419.06	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.70	
26 05 36 00-0714 EA 9" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,496.94	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-113.23	
26 05 36 00-0715 EA 12" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,581.22	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-119.07	
26 05 36 00-0716 EA 18" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,724.43	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.32	
26 05 36 00-0717 EA 24" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,974.27	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.71	
26 05 36 00-0718 EA 30" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,154.42	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.80	
26 05 36 00-0719 EA 36" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,360.52	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-175.19	
26 05 36 00-0720 Dropout Or End Plates And Reducers (26 05 36 00-0002)		
26 05 36 00-0721 Straight Reducers (26 05 36 00-0720)		
26 05 36 00-0722 EA 9"-6" Reducer, Steel Cable Tray	283.47	100.98
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.93	
26 05 36 00-0723 EA 12"-9" Reducer, Steel Cable Tray	299.88	109.32
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.88	
26 05 36 00-0724 EA 18"-12" Reducer, Steel Cable Tray	328.01	126.16
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.28	
26 05 36 00-0725 EA 24"-18" Reducer, Steel Cable Tray	363.43	146.00
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.18	
26 05 36 00-0726 EA 30"-24" Reducer, Steel Cable Tray	396.30	164.19
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.95	
26 05 36 00-0727 EA 36"-30" Reducer, Steel Cable Tray	450.33	187.59
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.40	
26 05 36 00-0728 Reducers (26 05 36 00-0720)		
26 05 36 00-0729 EA 18"-6" Reducer, Steel Cable Tray	333.14	126.29
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.79	
26 05 36 00-0730 EA 24"-12" Reducer, Steel Cable Tray	368.79	146.13
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0731 EA 30"-12" Reducer, Steel Cable Tray.....	406.09	164.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.94	
26 05 36 00-0732 EA 30"-18" Reducer, Steel Cable Tray.....	410.88	163.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.43	
26 05 36 00-0733 EA 36"-12" Reducer, Steel Cable Tray.....	452.83	187.59
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.65	
26 05 36 00-0734 EA 36"-18" Reducer, Steel Cable Tray.....	466.06	192.52
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.56	
26 05 36 00-0735 EA 36"-24" Reducer, Steel Cable Tray.....	481.31	198.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.57	
26 05 36 00-0736 Dropout Or End Plate <small>(26 05 36 00-0720)</small>		
26 05 36 00-0737 EA 6" Dropout Or End Plate, Steel Cable Tray.....	81.30	41.05
26 05 36 00-0738 EA 9" Dropout Or End Plate, Steel Cable Tray.....	93.27	46.93
26 05 36 00-0739 EA 12" Dropout Or End Plate, Steel Cable Tray.....	100.66	50.49
26 05 36 00-0740 EA 18" Dropout Or End Plate, Steel Cable Tray.....	118.86	59.66
26 05 36 00-0741 EA 24" Dropout Or End Plate, Steel Cable Tray.....	132.99	65.68
26 05 36 00-0742 EA 30" Dropout Or End Plate, Steel Cable Tray.....	147.43	72.93
26 05 36 00-0743 EA 36" Dropout Or End Plate, Steel Cable Tray.....	166.36	82.10
26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray <small>(26 05 36 00-0001)</small>		
Note: 4-5/8" Height		
26 05 36 00-0745 Straight Tray Sections <small>(26 05 36 00-0744)</small>		
26 05 36 00-0746 4" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0747 LF 6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	37.93	9.58
<i>For Class 12C Instead Of Class 12B, Add</i>	4.09	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.99	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.90	
26 05 36 00-0748 LF 9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	40.01	10.13
<i>For Class 12C Instead Of Class 12B, Add</i>	4.32	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.16	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.00	
26 05 36 00-0749 LF 12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	42.08	10.54
<i>For Class 12C Instead Of Class 12B, Add</i>	4.55	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.33	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.10	
26 05 36 00-0750 LF 18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	46.51	11.49
<i>For Class 12C Instead Of Class 12B, Add</i>	5.05	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.69	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.33	
26 05 36 00-0751 LF 24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	52.26	12.31
<i>For Class 12C Instead Of Class 12B, Add</i>	5.80	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-4.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.61	
26 05 36 00-0752 LF 30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	56.86	13.14
<i>For Class 12C Instead Of Class 12B, Add</i>	6.35	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-4.60	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.84	
26 05 36 00-0753 LF 36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	61.14	13.96
<i>For Class 12C Instead Of Class 12B, Add</i>	6.84	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-4.95	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	3.06	
26 05 36 00-0754 6" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0755 LF 6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	35.93	9.58
<i>For Class 12C Instead Of Class 12B, Add</i>	3.79	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.80	
26 05 36 00-0756 LF 9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	37.90	10.13
<i>For Class 12C Instead Of Class 12B, Add</i>	4.00	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.95	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.90	
26 05 36 00-0757 LF 12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	39.86	10.54
<i>For Class 12C Instead Of Class 12B, Add</i>	4.22	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.99	
26 05 36 00-0758 LF 18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	44.03	11.49
<i>For Class 12C Instead Of Class 12B, Add</i>	4.68	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.44	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.20	
26 05 36 00-0759 LF 24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	49.37	12.31
<i>For Class 12C Instead Of Class 12B, Add</i>	5.36	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.47	
26 05 36 00-0760 LF 30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section.....	53.67	13.14
<i>For Class 12C Instead Of Class 12B, Add</i>	5.87	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-4.28	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.68	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0761	LF		36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section	57.70	13.96
			<i>For Class 12C Instead Of Class 12B, Add</i>	6.32	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-4.60	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.89	
26 05 36 00-0762			9" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0763	LF		6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	32.84	9.17
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.39	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.52	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.64	
26 05 36 00-0764	LF		9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	33.60	9.58
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.44	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.56	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.68	
26 05 36 00-0765	LF		12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	35.73	10.13
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.68	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.73	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.79	
26 05 36 00-0766	LF		18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	38.23	10.81
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.93	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.92	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.91	
26 05 36 00-0767	LF		24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	41.97	11.22
			<i>For Class 12C Instead Of Class 12B, Add</i>	4.43	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.26	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.10	
26 05 36 00-0768	LF		30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	46.12	12.04
			<i>For Class 12C Instead Of Class 12B, Add</i>	4.90	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.60	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.31	
26 05 36 00-0769	LF		36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section	49.32	13.14
			<i>For Class 12C Instead Of Class 12B, Add</i>	5.21	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.84	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.47	
26 05 36 00-0770			12" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0771	LF		6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	32.00	8.90
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.32	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.46	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.60	
26 05 36 00-0772	LF		9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	32.63	9.17
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.36	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.50	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.63	
26 05 36 00-0773	LF		12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	34.12	9.72
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.49	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.60	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.71	
26 05 36 00-0774	LF		18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	36.13	10.26
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.70	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.75	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.81	
26 05 36 00-0775	LF		24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	38.52	10.40
			<i>For Class 12C Instead Of Class 12B, Add</i>	4.03	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.98	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.93	
26 05 36 00-0776	LF		30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	41.63	11.49
			<i>For Class 12C Instead Of Class 12B, Add</i>	4.34	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.21	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.08	
26 05 36 00-0777	LF		36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section	44.40	12.45
			<i>For Class 12C Instead Of Class 12B, Add</i>	4.59	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.41	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.22	
26 05 36 00-0778			18" Rung Spacing <small>(26 05 36 00-0745)</small>		
26 05 36 00-0779	LF		6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	31.50	8.62
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.29	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.43	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.58	
26 05 36 00-0780	LF		9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	31.84	9.03
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.28	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.44	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.59	
26 05 36 00-0781	LF		12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	33.44	9.31
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.46	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.57	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.67	
26 05 36 00-0782	LF		18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	35.22	9.85
			<i>For Class 12C Instead Of Class 12B, Add</i>	3.65	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.70	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0783 LF 24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	36.93	9.99
<i>For Class 12C Instead Of Class 12B, Add</i>	3.88	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-2.86	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.85	
26 05 36 00-0784 LF 30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	39.12	10.94
<i>For Class 12C Instead Of Class 12B, Add</i>	4.05	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.01	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1.96	
26 05 36 00-0785 LF 36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section	41.83	11.90
<i>For Class 12C Instead Of Class 12B, Add</i>	4.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-3.19	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2.09	
26 05 36 00-0786 4" Rung Tray Fittings <small>(26 05 36 00-0744)</small>		
26 05 36 00-0787 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>		
26 05 36 00-0788 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	336.39	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.82	
26 05 36 00-0789 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	370.97	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.55	
26 05 36 00-0790 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	418.84	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.94	
26 05 36 00-0791 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	500.28	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.38	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.01	
26 05 36 00-0792 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	588.02	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.54	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.40	
26 05 36 00-0793 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	649.72	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.17	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.49	
26 05 36 00-0794 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	755.82	312.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.52	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.79	
26 05 36 00-0795 90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>		
26 05 36 00-0796 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	428.79	142.71
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.99	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.44	
26 05 36 00-0797 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	472.53	164.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.63	
26 05 36 00-0798 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	512.69	182.39
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.63	
26 05 36 00-0799 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	603.92	226.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.51	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	30.20	
26 05 36 00-0800 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	686.17	262.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.72	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.31	
26 05 36 00-0801 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	768.55	298.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.00	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	38.43	
26 05 36 00-0802 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	881.32	345.49
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.34	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.07	
26 05 36 00-0803 90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-0786)</small>		
26 05 36 00-0804 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	458.60	149.14
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.43	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.93	
26 05 36 00-0805 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	503.14	172.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.16	
26 05 36 00-0806 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	562.10	193.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.11	
26 05 36 00-0807 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	675.29	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.76	
26 05 36 00-0808 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	781.20	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.33	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.06	
26 05 36 00-0809 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	882.76	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0810	EA		36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,027.52	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.60	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.38	
26 05 36 00-0811			45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0796)		
26 05 36 00-0812	EA		6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	236.64	99.47
			<i>For 60 Degree Bend, Deduct</i>	-39.97	
			<i>For 30 Degree Bend, Deduct</i>	-72.15	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.38	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	11.83	
26 05 36 00-0813	EA		9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	272.40	119.31
			<i>For 60 Degree Bend, Deduct</i>	-44.18	
			<i>For 30 Degree Bend, Deduct</i>	-80.25	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.30	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	13.62	
26 05 36 00-0814	EA		12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	304.41	136.83
			<i>For 60 Degree Bend, Deduct</i>	-48.00	
			<i>For 30 Degree Bend, Deduct</i>	-87.61	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.04	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	15.22	
26 05 36 00-0815	EA		18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	378.17	172.95
			<i>For 60 Degree Bend, Deduct</i>	-58.52	
			<i>For 30 Degree Bend, Deduct</i>	-107.13	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.41	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.91	
26 05 36 00-0816	EA		24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	464.83	211.80
			<i>For 60 Degree Bend, Deduct</i>	-72.20	
			<i>For 30 Degree Bend, Deduct</i>	-132.10	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.83	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.24	
26 05 36 00-0817	EA		30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	533.47	243.15
			<i>For 60 Degree Bend, Deduct</i>	-82.83	
			<i>For 30 Degree Bend, Deduct</i>	-151.56	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.08	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.67	
26 05 36 00-0818	EA		36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	609.38	285.42
			<i>For 60 Degree Bend, Deduct</i>	-91.67	
			<i>For 30 Degree Bend, Deduct</i>	-168.65	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.15	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	30.47	
26 05 36 00-0819			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0796)		
26 05 36 00-0820	EA		6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	266.39	102.62
			<i>For 60 Degree Bend, Deduct</i>	-48.59	
			<i>For 30 Degree Bend, Deduct</i>	-86.69	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.09	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	13.32	
26 05 36 00-0821	EA		9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	312.55	123.69
			<i>For 60 Degree Bend, Deduct</i>	-55.72	
			<i>For 30 Degree Bend, Deduct</i>	-99.74	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.95	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	15.63	
26 05 36 00-0822	EA		12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	347.14	142.85
			<i>For 60 Degree Bend, Deduct</i>	-59.80	
			<i>For 30 Degree Bend, Deduct</i>	-107.61	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.81	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.36	
26 05 36 00-0823	EA		18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	421.33	182.39
			<i>For 60 Degree Bend, Deduct</i>	-69.11	
			<i>For 30 Degree Bend, Deduct</i>	-125.31	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.93	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.07	
26 05 36 00-0824	EA		24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	513.92	226.58
			<i>For 60 Degree Bend, Deduct</i>	-82.75	
			<i>For 30 Degree Bend, Deduct</i>	-150.51	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.51	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.70	
26 05 36 00-0825	EA		30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	601.62	262.84
			<i>For 60 Degree Bend, Deduct</i>	-97.80	
			<i>For 30 Degree Bend, Deduct</i>	-177.59	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.26	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	30.08	
26 05 36 00-0826	EA		36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	693.26	312.92
			<i>For 60 Degree Bend, Deduct</i>	-108.84	
			<i>For 30 Degree Bend, Deduct</i>	-198.79	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.25	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.66	
26 05 36 00-0827			45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0796)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0828 EA 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	304.60	105.91
For 60 Degree Bend, Deduct	-59.94	
For 30 Degree Bend, Deduct	-105.78	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.64	
For 6" Overall Height Instead Of 4-5/8", Add	15.23	
26 05 36 00-0829 EA 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	345.24	128.62
For 60 Degree Bend, Deduct	-64.63	
For 30 Degree Bend, Deduct	-114.87	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.81	
For 6" Overall Height Instead Of 4-5/8", Add	17.26	
26 05 36 00-0830 EA 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	382.41	149.28
For 60 Degree Bend, Deduct	-68.98	
For 30 Degree Bend, Deduct	-123.25	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.80	
For 6" Overall Height Instead Of 4-5/8", Add	19.12	
26 05 36 00-0831 EA 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	469.37	193.20
For 60 Degree Bend, Deduct	-80.81	
For 30 Degree Bend, Deduct	-145.42	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.83	
For 6" Overall Height Instead Of 4-5/8", Add	23.47	
26 05 36 00-0832 EA 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	585.29	243.15
For 60 Degree Bend, Deduct	-99.93	
For 30 Degree Bend, Deduct	-180.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.26	
For 6" Overall Height Instead Of 4-5/8", Add	29.26	
26 05 36 00-0833 EA 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	666.66	285.42
For 60 Degree Bend, Deduct	-110.58	
For 30 Degree Bend, Deduct	-200.15	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.88	
For 6" Overall Height Instead Of 4-5/8", Add	33.33	
26 05 36 00-0834 EA 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	785.87	345.49
For 60 Degree Bend, Deduct	-126.89	
For 30 Degree Bend, Deduct	-230.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.79	
For 6" Overall Height Instead Of 4-5/8", Add	39.29	
26 05 36 00-0835 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-0786)</small>		
26 05 36 00-0836 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	361.98	136.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.80	
For 6" Overall Height Instead Of 4-5/8", Add	18.10	
26 05 36 00-0837 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	401.75	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.15	
For 6" Overall Height Instead Of 4-5/8", Add	20.09	
26 05 36 00-0838 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	431.60	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.76	
For 6" Overall Height Instead Of 4-5/8", Add	21.58	
26 05 36 00-0839 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	501.55	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.50	
For 6" Overall Height Instead Of 4-5/8", Add	25.08	
26 05 36 00-0840 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	561.13	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.85	
For 6" Overall Height Instead Of 4-5/8", Add	28.06	
26 05 36 00-0841 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	619.24	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.12	
For 6" Overall Height Instead Of 4-5/8", Add	30.96	
26 05 36 00-0842 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	688.67	312.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.83	
For 6" Overall Height Instead Of 4-5/8", Add	34.43	
26 05 36 00-0843 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-0786)</small>		
26 05 36 00-0844 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	382.76	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.38	
For 6" Overall Height Instead Of 4-5/8", Add	19.14	
26 05 36 00-0845 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	424.63	164.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.78	
For 6" Overall Height Instead Of 4-5/8", Add	21.23	
26 05 36 00-0846 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	458.68	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.67	
For 6" Overall Height Instead Of 4-5/8", Add	22.93	
26 05 36 00-0847 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	540.71	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.19	
For 6" Overall Height Instead Of 4-5/8", Add	27.04	
26 05 36 00-0848 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray	610.88	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.19	
For 6" Overall Height Instead Of 4-5/8", Add	30.54	
26 05 36 00-0849 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	679.82	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.12	
For 6" Overall Height Instead Of 4-5/8", Add	33.99	
26 05 36 00-0850 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	770.67	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.27	
For 6" Overall Height Instead Of 4-5/8", Add	38.53	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0851			90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-0786)</small>		
26 05 36 00-0852	EA		6" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	472.62	149.14
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.83	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.63	
26 05 36 00-0853	EA		9" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	516.82	172.81
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.29	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.84	
26 05 36 00-0854	EA		12" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	565.60	193.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.46	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.28	
26 05 36 00-0855	EA		18" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	658.53	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.59	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.93	
26 05 36 00-0856	EA		24" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	738.73	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.09	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.94	
26 05 36 00-0857	EA		30" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	829.77	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.61	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.49	
26 05 36 00-0858	EA		36" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	937.62	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.61	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.88	
26 05 36 00-0859			12" Radius Horizontal Tees <small>(26 05 36 00-0786)</small>		
26 05 36 00-0860	EA		6" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	592.47	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.35	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.62	
26 05 36 00-0861	EA		9" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	640.36	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.25	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.02	
26 05 36 00-0862	EA		12" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	664.33	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.57	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.22	
26 05 36 00-0863	EA		18" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	747.37	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.37	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.37	
26 05 36 00-0864	EA		24" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	827.90	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.41	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.40	
26 05 36 00-0865	EA		30" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	899.97	386.54
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.79	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.00	
26 05 36 00-0866	EA		36" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray	1,035.79	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.11	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.79	
26 05 36 00-0867			24" Radius Horizontal Tees <small>(26 05 36 00-0786)</small>		
26 05 36 00-0868	EA		6" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	739.12	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.12	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.96	
26 05 36 00-0869	EA		9" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	800.01	312.92
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.93	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.00	
26 05 36 00-0870	EA		12" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	833.48	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.98	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.67	
26 05 36 00-0871	EA		18" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	919.07	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.53	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.95	
26 05 36 00-0872	EA		24" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	1,023.49	410.48
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.14	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.17	
26 05 36 00-0873	EA		30" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	1,101.63	437.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.70	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.08	
26 05 36 00-0874	EA		36" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray	1,412.33	505.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.11	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	70.62	
26 05 36 00-0875			36" Radius Horizontal Tees <small>(26 05 36 00-0786)</small>		
26 05 36 00-0876	EA		6" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	893.71	312.92
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.30	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.69	
26 05 36 00-0877	EA		9" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	958.27	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.03	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	47.91	
26 05 36 00-0878	EA		12" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray	1,025.43	364.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.16	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0879 EA 18" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,124.78 -78.27 56.24	410.48
26 05 36 00-0880 EA 24" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,267.21 -87.67 63.36	468.63
26 05 36 00-0881 EA 30" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,457.91 -103.66 72.90	505.58
26 05 36 00-0882 EA 36" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,678.14 -118.10 83.91	596.57
26 05 36 00-0883 12" Radius Vertical Tees <small>(26 05 36 00-0786)</small>		
26 05 36 00-0884 EA 6" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	752.23 -54.96 37.61	243.15
26 05 36 00-0885 EA 9" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	778.33 -56.77 38.92	252.71
26 05 36 00-0886 EA 12" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	797.60 -57.86 39.88	262.84
26 05 36 00-0887 EA 18" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	842.95 -60.51 42.15	285.42
26 05 36 00-0888 EA 24" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	894.78 -64.62 44.74	298.28
26 05 36 00-0889 EA 30" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	952.50 -67.88 47.63	328.38
26 05 36 00-0890 EA 36" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,025.43 -72.16 51.27	364.50
26 05 36 00-0891 24" Radius Vertical Tees <small>(26 05 36 00-0786)</small>		
26 05 36 00-0892 EA 6" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,025.52 -80.65 51.28	262.84
26 05 36 00-0893 EA 9" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,051.21 -82.32 52.56	273.66
26 05 36 00-0894 EA 12" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,078.47 -84.06 53.92	285.42
26 05 36 00-0895 EA 18" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,141.89 -88.12 57.09	312.92
26 05 36 00-0896 EA 24" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,182.95 -90.93 59.15	328.38
26 05 36 00-0897 EA 30" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,258.42 -95.46 62.92	364.50
26 05 36 00-0898 EA 36" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,393.22 -105.12 69.66	410.48
26 05 36 00-0899 36" Radius Vertical Tee <small>(26 05 36 00-0786)</small>		
26 05 36 00-0900 EA 6" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,593.44 -135.56 79.67	285.42
26 05 36 00-0901 EA 9" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,629.39 -138.08 81.47	298.28
26 05 36 00-0902 EA 12" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,668.15 -140.74 83.41	312.92
26 05 36 00-0903 EA 18" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,737.12 -144.92 86.86	345.49
26 05 36 00-0904 EA 24" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,783.34 -147.96 89.17	364.50
26 05 36 00-0905 EA 30" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,903.43 -156.14 95.17	410.48
26 05 36 00-0906 EA 36" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,014.78 -162.43 100.74	468.63

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0907 12" Radius Horizontal Crosses <small>(26 05 36 00-0786)</small>		
26 05 36 00-0908 EA 6" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	762.57	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.89	
For 6" Overall Height Instead Of 4-5/8", Add	38.13	
26 05 36 00-0909 EA 9" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	813.92	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.60	
For 6" Overall Height Instead Of 4-5/8", Add	40.70	
26 05 36 00-0910 EA 12" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	848.16	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.44	
For 6" Overall Height Instead Of 4-5/8", Add	42.41	
26 05 36 00-0911 EA 18" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	935.42	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.33	
For 6" Overall Height Instead Of 4-5/8", Add	46.77	
26 05 36 00-0912 EA 24" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,030.72	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.60	
For 6" Overall Height Instead Of 4-5/8", Add	51.54	
26 05 36 00-0913 EA 30" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,135.52	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.50	
For 6" Overall Height Instead Of 4-5/8", Add	56.78	
26 05 36 00-0914 EA 36" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,285.71	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.44	
For 6" Overall Height Instead Of 4-5/8", Add	64.29	
26 05 36 00-0915 24" Radius Horizontal Crosses <small>(26 05 36 00-0786)</small>		
26 05 36 00-0916 EA 6" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,020.37	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.66	
For 6" Overall Height Instead Of 4-5/8", Add	51.02	
26 05 36 00-0917 EA 9" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,069.64	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-74.75	
For 6" Overall Height Instead Of 4-5/8", Add	53.48	
26 05 36 00-0918 EA 12" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,122.25	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.02	
For 6" Overall Height Instead Of 4-5/8", Add	56.11	
26 05 36 00-0919 EA 18" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,190.26	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.56	
For 6" Overall Height Instead Of 4-5/8", Add	59.51	
26 05 36 00-0920 EA 24" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,343.95	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.27	
For 6" Overall Height Instead Of 4-5/8", Add	67.20	
26 05 36 00-0921 EA 30" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,601.98	547.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-114.59	
For 6" Overall Height Instead Of 4-5/8", Add	80.10	
26 05 36 00-0922 EA 36" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,772.03	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-127.48	
For 6" Overall Height Instead Of 4-5/8", Add	88.60	
26 05 36 00-0923 36" Radius Horizontal Crosses <small>(26 05 36 00-0786)</small>		
26 05 36 00-0924 EA 6" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,170.37	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.83	
For 6" Overall Height Instead Of 4-5/8", Add	58.52	
26 05 36 00-0925 EA 9" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,380.12	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.54	
For 6" Overall Height Instead Of 4-5/8", Add	69.01	
26 05 36 00-0926 EA 12" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,470.78	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-108.03	
For 6" Overall Height Instead Of 4-5/8", Add	73.54	
26 05 36 00-0927 EA 18" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,414.86	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.36	
For 6" Overall Height Instead Of 4-5/8", Add	70.74	
26 05 36 00-0928 EA 24" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,703.46	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.63	
For 6" Overall Height Instead Of 4-5/8", Add	85.17	
26 05 36 00-0929 EA 30" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,877.93	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-133.15	
For 6" Overall Height Instead Of 4-5/8", Add	93.90	
26 05 36 00-0930 EA 36" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,091.01	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-148.24	
For 6" Overall Height Instead Of 4-5/8", Add	104.55	
26 05 36 00-0931 12" Radius Vertical Cross <small>(26 05 36 00-0786)</small>		
26 05 36 00-0932 EA 6" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	762.57	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.89	
For 6" Overall Height Instead Of 4-5/8", Add	38.13	
26 05 36 00-0933 EA 9" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	814.12	345.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.61	
For 6" Overall Height Instead Of 4-5/8", Add	40.71	
26 05 36 00-0934 EA 12" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	848.05	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.43	
For 6" Overall Height Instead Of 4-5/8", Add	42.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	935.67	386.68
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.35	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.78	
26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,030.72	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.60	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.54	
26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,135.87	468.77
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.52	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	56.79	
26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,284.68	504.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.39	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	64.23	
26 05 36 00-0939 24" Radius Vertical Crosses <small>(26 05 36 00-0786)</small>		
26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,020.37	364.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.66	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.02	
26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,069.64	386.54
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.75	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	53.48	
26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,122.25	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.02	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	56.11	
26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,190.26	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.56	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	59.51	
26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,343.95	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.27	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	67.20	
26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,449.06	547.31
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.30	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	72.45	
26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,599.63	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	79.98	
26 05 36 00-0947 36" Radius Vertical Crosses <small>(26 05 36 00-0786)</small>		
26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,389.17	410.48
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.71	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	69.46	
26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,463.77	437.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	73.19	
26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,559.45	468.63
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.90	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	77.97	
26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,672.41	505.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-125.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	83.62	
26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,022.55	596.57
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-152.54	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	101.13	
26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,231.20	655.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-168.48	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	111.56	
26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,484.17	730.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-187.55	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	124.21	
26 05 36 00-0955 6" Rung Tray Fittings <small>(26 05 36 00-0744)</small>		
26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-0955)</small>		
26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	321.00	137.24
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.67	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.05	
26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	355.19	156.26
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.76	
26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	400.14	172.81
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.62	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.01	
26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	479.24	211.80
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.27	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.96	
26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	561.91	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.10	
26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	622.06	273.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.40	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0963	EA		36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	722.32	312.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.17	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.12	
26 05 36 00-0964			90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0965	EA		6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	401.51	142.71
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.26	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.08	
26 05 36 00-0966	EA		9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	444.09	164.05
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.74	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.20	
26 05 36 00-0967	EA		12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	482.89	182.39
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.09	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.14	
26 05 36 00-0968	EA		18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	571.58	226.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.28	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.58	
26 05 36 00-0969	EA		24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	650.71	262.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.17	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.54	
26 05 36 00-0970	EA		30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	729.78	298.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.12	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.49	
26 05 36 00-0971	EA		36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	837.69	345.49
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.98	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.88	
26 05 36 00-0972			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0973	EA		6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	428.60	149.14
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.43	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.43	
26 05 36 00-0974	EA		9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	472.36	172.68
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.85	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.62	
26 05 36 00-0975	EA		12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	527.81	193.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.68	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.39	
26 05 36 00-0976	EA		18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	636.72	243.15
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.41	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.84	
26 05 36 00-0977	EA		24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	737.57	285.42
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.97	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.88	
26 05 36 00-0978	EA		30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	834.84	328.38
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.12	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.74	
26 05 36 00-0979	EA		36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	972.59	385.86
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.11	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	48.63	
26 05 36 00-0980			45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)		
26 05 36 00-0981	EA		6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	226.51	99.47
			<i>For 60 Degree Bend, Deduct</i>	-36.63	
			<i>For 30 Degree Bend, Deduct</i>	-66.58	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-14.36	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	11.33	
26 05 36 00-0982	EA		9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	261.88	119.31
			<i>For 60 Degree Bend, Deduct</i>	-40.71	
			<i>For 30 Degree Bend, Deduct</i>	-74.47	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.25	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	13.09	
26 05 36 00-0983	EA		12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	293.50	136.83
			<i>For 60 Degree Bend, Deduct</i>	-44.40	
			<i>For 30 Degree Bend, Deduct</i>	-81.61	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.95	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.68	
26 05 36 00-0984	EA		18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	365.31	172.95
			<i>For 60 Degree Bend, Deduct</i>	-54.27	
			<i>For 30 Degree Bend, Deduct</i>	-100.06	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.12	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.27	
26 05 36 00-0985	EA		24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	448.85	211.80
			<i>For 60 Degree Bend, Deduct</i>	-66.93	
			<i>For 30 Degree Bend, Deduct</i>	-123.31	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.23	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.44	
26 05 36 00-0986	EA		30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	515.16	243.15
			<i>For 60 Degree Bend, Deduct</i>	-76.79	
			<i>For 30 Degree Bend, Deduct</i>	-141.49	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.25	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0987 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	590.29	285.42
<i>For 60 Degree Bend, Deduct</i>	-85.37	
<i>For 30 Degree Bend, Deduct</i>	-158.15	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.51	
26 05 36 00-0988 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-0955)</small>		
26 05 36 00-0989 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	252.76	102.62
<i>For 60 Degree Bend, Deduct</i>	-44.09	
<i>For 30 Degree Bend, Deduct</i>	-79.19	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.73	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	12.64	
26 05 36 00-0990 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	297.36	123.69
<i>For 60 Degree Bend, Deduct</i>	-50.71	
<i>For 30 Degree Bend, Deduct</i>	-91.38	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.43	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.87	
26 05 36 00-0991 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	331.56	142.85
<i>For 60 Degree Bend, Deduct</i>	-54.66	
<i>For 30 Degree Bend, Deduct</i>	-99.04	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.25	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.58	
26 05 36 00-0992 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	404.58	182.39
<i>For 60 Degree Bend, Deduct</i>	-63.58	
<i>For 30 Degree Bend, Deduct</i>	-116.10	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.23	
26 05 36 00-0993 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	494.44	226.58
<i>For 60 Degree Bend, Deduct</i>	-76.33	
<i>For 30 Degree Bend, Deduct</i>	-139.80	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.72	
26 05 36 00-0994 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	578.25	262.84
<i>For 60 Degree Bend, Deduct</i>	-90.08	
<i>For 30 Degree Bend, Deduct</i>	-164.74	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.91	
26 05 36 00-0995 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	668.71	312.92
<i>For 60 Degree Bend, Deduct</i>	-100.74	
<i>For 30 Degree Bend, Deduct</i>	-185.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.80	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.44	
26 05 36 00-0996 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-0955)</small>		
26 05 36 00-0997 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	286.29	105.91
<i>For 60 Degree Bend, Deduct</i>	-53.90	
<i>For 30 Degree Bend, Deduct</i>	-95.71	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.81	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.31	
26 05 36 00-0998 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	326.54	128.62
<i>For 60 Degree Bend, Deduct</i>	-58.46	
<i>For 30 Degree Bend, Deduct</i>	-104.58	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.94	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.33	
26 05 36 00-0999 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	363.32	149.28
<i>For 60 Degree Bend, Deduct</i>	-62.68	
<i>For 30 Degree Bend, Deduct</i>	-112.75	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.89	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.17	
26 05 36 00-1000 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	448.33	193.20
<i>For 60 Degree Bend, Deduct</i>	-73.87	
<i>For 30 Degree Bend, Deduct</i>	-133.85	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.73	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.42	
26 05 36 00-1001 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	559.57	243.15
<i>For 60 Degree Bend, Deduct</i>	-91.44	
<i>For 30 Degree Bend, Deduct</i>	-165.91	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.69	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.98	
26 05 36 00-1002 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	639.38	285.42
<i>For 60 Degree Bend, Deduct</i>	-101.57	
<i>For 30 Degree Bend, Deduct</i>	-185.15	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.15	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.97	
26 05 36 00-1003 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	755.87	345.49
<i>For 60 Degree Bend, Deduct</i>	-116.99	
<i>For 30 Degree Bend, Deduct</i>	-214.17	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.79	
26 05 36 00-1004 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-0955)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1005 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	351.26 -23.72 17.56	136.83
26 05 36 00-1006 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	390.45 -26.02 19.52	156.26
26 05 36 00-1007 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	420.10 -27.61 21.01	172.81
26 05 36 00-1008 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	489.66 -31.32 24.48	211.80
26 05 36 00-1009 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	548.67 -34.60 27.43	243.15
26 05 36 00-1010 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	606.19 -37.81 30.31	273.66
26 05 36 00-1011 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	675.23 -41.49 33.76	312.37
26 05 36 00-1012 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-0955)</small>		
26 05 36 00-1013 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	371.17 -25.22 18.56	142.71
26 05 36 00-1014 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	412.55 -27.57 20.63	164.19
26 05 36 00-1015 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	446.32 -29.43 22.32	182.39
26 05 36 00-1016 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	527.66 -33.89 26.38	226.58
26 05 36 00-1017 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	597.05 -37.81 29.85	262.84
26 05 36 00-1018 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	665.21 -41.66 33.26	298.28
26 05 36 00-1019 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	755.09 -46.72 37.75	345.49
26 05 36 00-1020 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-0955)</small>		
26 05 36 00-1021 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	454.70 -33.04 22.74	149.14
26 05 36 00-1022 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	498.51 -35.45 24.93	172.81
26 05 36 00-1023 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	546.12 -38.51 27.31	193.20
26 05 36 00-1024 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	638.27 -43.56 31.91	243.15
26 05 36 00-1025 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	717.70 -47.98 35.89	285.42
26 05 36 00-1026 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	807.18 -53.35 40.36	328.38
26 05 36 00-1027 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	914.05 -59.26 45.70	385.86
26 05 36 00-1028 12" Radius Horizontal Tees <small>(26 05 36 00-0955)</small>		
26 05 36 00-1029 EA 6" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	580.59 -36.16 29.03	262.84
26 05 36 00-1030 EA 9" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	627.70 -38.98 31.39	285.42
26 05 36 00-1031 EA 12" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	651.47 -40.29 32.57	298.28
26 05 36 00-1032 EA 18" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	731.98 -45.83 36.60	328.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1033 EA 24" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	810.95 -50.72 40.55	364.50
26 05 36 00-1034 EA 30" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	880.29 -55.82 44.01	386.54
26 05 36 00-1035 EA 36" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,012.21 -64.75 50.61	437.58
26 05 36 00-1036 24" Radius Horizontal Tees <small>(26 05 36 00-0955)</small>		
26 05 36 00-1037 EA 6" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	718.86 -48.10 35.94	285.42
26 05 36 00-1038 EA 9" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	778.58 -51.79 38.93	312.92
26 05 36 00-1039 EA 12" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	811.46 -53.78 40.57	328.38
26 05 36 00-1040 EA 18" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	895.11 -59.13 44.76	364.50
26 05 36 00-1041 EA 24" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	997.38 -65.53 49.87	410.48
26 05 36 00-1042 EA 30" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,072.99 -70.83 53.65	437.58
26 05 36 00-1043 EA 36" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,368.50 -94.72 68.43	505.58
26 05 36 00-1044 36" Radius Horizontal Tees <small>(26 05 36 00-0955)</small>		
26 05 36 00-1045 EA 6" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	865.07 -60.44 43.25	312.92
26 05 36 00-1046 EA 9" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	928.85 -64.09 46.44	345.49
26 05 36 00-1047 EA 12" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	993.29 -68.95 49.66	364.50
26 05 36 00-1048 EA 18" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,090.89 -74.88 54.54	410.48
26 05 36 00-1049 EA 24" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,229.81 -83.93 61.49	468.63
26 05 36 00-1050 EA 30" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,410.58 -98.93 70.53	505.58
26 05 36 00-1051 EA 36" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,625.54 -112.84 81.28	596.57
26 05 36 00-1052 12" Radius Vertical Tees <small>(26 05 36 00-0955)</small>		
26 05 36 00-1053 EA 6" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	725.55 -52.29 36.28	243.15
26 05 36 00-1054 EA 9" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	750.87 -54.02 37.54	252.71
26 05 36 00-1055 EA 12" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	769.93 -55.09 38.50	262.84
26 05 36 00-1056 EA 18" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	814.71 -57.68 40.74	285.42
26 05 36 00-1057 EA 24" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	864.20 -61.56 43.21	298.28
26 05 36 00-1058 EA 30" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	921.33 -64.77 46.07	328.38
26 05 36 00-1059 EA 36" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	993.29 -68.95 49.66	364.50
26 05 36 00-1060 24" Radius Vertical Tees <small>(26 05 36 00-0955)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1061 EA 6" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	980.32 -76.13 49.02	262.84
26 05 36 00-1062 EA 9" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,005.43 -77.74 50.27	273.66
26 05 36 00-1063 EA 12" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,032.11 -79.42 51.61	285.42
26 05 36 00-1064 EA 18" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,094.16 -83.34 54.71	312.92
26 05 36 00-1065 EA 24" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,134.06 -86.04 56.70	328.38
26 05 36 00-1066 EA 30" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,208.35 -90.46 60.42	364.50
26 05 36 00-1067 EA 36" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,338.68 -99.66 66.93	410.48
26 05 36 00-1068 36" Radius Vertical Tees (26 05 36 00-0955)		
26 05 36 00-1069 EA 6" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,507.47 -126.96 75.37	285.42
26 05 36 00-1070 EA 9" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,542.30 -129.37 77.12	298.28
26 05 36 00-1071 EA 12" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,579.94 -131.92 79.00	312.92
26 05 36 00-1072 EA 18" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,647.79 -135.99 82.39	345.49
26 05 36 00-1073 EA 24" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,692.90 -138.91 84.65	364.50
26 05 36 00-1074 EA 30" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,809.64 -146.76 90.48	410.48
26 05 36 00-1075 EA 36" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,919.88 -152.94 95.99	468.63
26 05 36 00-1076 12" Radius Horizontal Crosses (26 05 36 00-0955)		
26 05 36 00-1077 EA 6" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	746.01 -47.24 37.30	328.38
26 05 36 00-1078 EA 9" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	795.61 -50.77 39.78	345.49
26 05 36 00-1079 EA 12" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	829.66 -52.59 41.48	364.50
26 05 36 00-1080 EA 18" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	913.02 -59.09 45.65	386.54
26 05 36 00-1081 EA 24" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,007.54 -64.29 50.38	437.58
26 05 36 00-1082 EA 30" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,108.25 -71.78 55.41	468.63
26 05 36 00-1083 EA 36" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,251.62 -83.04 62.58	505.58
26 05 36 00-1084 24" Radius Horizontal Crosses (26 05 36 00-0955)		
26 05 36 00-1085 EA 6" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	988.61 -68.48 49.43	364.50
26 05 36 00-1086 EA 9" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,036.91 -71.48 51.85	386.54
26 05 36 00-1087 EA 12" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,088.55 -74.65 54.43	410.48
26 05 36 00-1088 EA 18" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,154.81 -79.01 57.74	437.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1089 EA 24" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,305.38 -88.41 65.27	505.58
26 05 36 00-1090 EA 30" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,407.76 -95.17 70.39	547.31
26 05 36 00-1091 EA 36" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,553.08 -105.59 77.65	596.57
26 05 36 00-1092 36" Radius Horizontal Crosses <small>(26 05 36 00-0955)</small>		
26 05 36 00-1093 EA 6" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,132.97 -79.09 56.65	410.48
26 05 36 00-1094 EA 9" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,196.89 -83.22 59.84	437.58
26 05 36 00-1095 EA 12" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,276.56 -88.61 63.83	468.63
26 05 36 00-1096 EA 18" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,370.84 -94.96 68.54	505.58
26 05 36 00-1097 EA 24" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,648.92 -115.17 82.45	596.57
26 05 36 00-1098 EA 30" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,817.54 -127.11 90.88	655.67
26 05 36 00-1099 EA 36" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,023.80 -141.51 101.19	730.38
26 05 36 00-1100 12" Radius Vertical Crosses <small>(26 05 36 00-0955)</small>		
26 05 36 00-1101 EA 6" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	746.01 -47.24 37.30	328.38
26 05 36 00-1102 EA 9" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	795.81 -50.78 39.79	345.63
26 05 36 00-1103 EA 12" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	829.55 -52.58 41.48	364.50
26 05 36 00-1104 EA 18" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	913.27 -59.11 45.66	386.68
26 05 36 00-1105 EA 24" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,007.54 -64.29 50.38	437.58
26 05 36 00-1106 EA 30" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,108.60 -71.79 55.43	468.77
26 05 36 00-1107 EA 36" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,250.59 -82.98 62.53	504.89
26 05 36 00-1108 24" Radius Vertical Crosses <small>(26 05 36 00-0955)</small>		
26 05 36 00-1109 EA 6" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	988.61 -68.48 49.43	364.50
26 05 36 00-1110 EA 9" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,036.91 -71.48 51.85	386.54
26 05 36 00-1111 EA 12" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,088.55 -74.65 54.43	410.48
26 05 36 00-1112 EA 18" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,154.81 -79.01 57.74	437.58
26 05 36 00-1113 EA 24" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,305.38 -88.41 65.27	505.58
26 05 36 00-1114 EA 30" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,407.76 -95.17 70.39	547.31
26 05 36 00-1115 EA 36" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,553.08 -105.59 77.65	596.57
26 05 36 00-1116 36" Radius Vertical Crosses <small>(26 05 36 00-0955)</small>		

26 Electrical
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1117 EA 6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,334.94	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.29	
For 6" Overall Height Instead Of 4-5/8", Add	66.75	
26 05 36 00-1118 EA 9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,407.27	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.26	
For 6" Overall Height Instead Of 4-5/8", Add	70.36	
26 05 36 00-1119 EA 12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,499.57	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-110.91	
For 6" Overall Height Instead Of 4-5/8", Add	74.98	
26 05 36 00-1120 EA 18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,608.57	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-118.73	
For 6" Overall Height Instead Of 4-5/8", Add	80.43	
26 05 36 00-1121 EA 24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,943.46	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-144.63	
For 6" Overall Height Instead Of 4-5/8", Add	97.17	
26 05 36 00-1122 EA 30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,143.64	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-159.72	
For 6" Overall Height Instead Of 4-5/8", Add	107.18	
26 05 36 00-1123 EA 36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,386.72	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-177.81	
For 6" Overall Height Instead Of 4-5/8", Add	119.34	
26 05 36 00-1124 9" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-1125 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1126 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	305.61	137.24
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.13	
For 6" Overall Height Instead Of 4-5/8", Add	15.28	
26 05 36 00-1127 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	339.42	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.92	
For 6" Overall Height Instead Of 4-5/8", Add	16.97	
26 05 36 00-1128 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	381.44	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.75	
For 6" Overall Height Instead Of 4-5/8", Add	19.07	
26 05 36 00-1129 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	458.20	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.17	
For 6" Overall Height Instead Of 4-5/8", Add	22.91	
26 05 36 00-1130 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	535.81	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.32	
For 6" Overall Height Instead Of 4-5/8", Add	26.79	
26 05 36 00-1131 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	594.40	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.64	
For 6" Overall Height Instead Of 4-5/8", Add	29.72	
26 05 36 00-1132 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	688.81	312.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.82	
For 6" Overall Height Instead Of 4-5/8", Add	34.44	
26 05 36 00-1133 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1134 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	374.24	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.53	
For 6" Overall Height Instead Of 4-5/8", Add	18.71	
26 05 36 00-1135 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	415.65	164.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.89	
For 6" Overall Height Instead Of 4-5/8", Add	20.78	
26 05 36 00-1136 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	453.08	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.11	
For 6" Overall Height Instead Of 4-5/8", Add	22.65	
26 05 36 00-1137 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	539.25	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.05	
For 6" Overall Height Instead Of 4-5/8", Add	26.96	
26 05 36 00-1138 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	615.26	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.63	
For 6" Overall Height Instead Of 4-5/8", Add	30.76	
26 05 36 00-1139 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	691.02	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.24	
For 6" Overall Height Instead Of 4-5/8", Add	34.55	
26 05 36 00-1140 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	794.05	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.61	
For 6" Overall Height Instead Of 4-5/8", Add	39.70	
26 05 36 00-1141 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1142 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	398.60	149.14
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.43	
For 6" Overall Height Instead Of 4-5/8", Add	19.93	
26 05 36 00-1143 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	441.58	172.68
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.77	
For 6" Overall Height Instead Of 4-5/8", Add	22.08	
26 05 36 00-1144 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	493.53	193.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.25	
For 6" Overall Height Instead Of 4-5/8", Add	24.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1145 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	598.15	243.15
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.55	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.91	
26 05 36 00-1146 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	693.93	285.42
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.61	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.70	
26 05 36 00-1147 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	786.92	328.38
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.33	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.35	
26 05 36 00-1148 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	917.65	385.86
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.62	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.88	
26 05 36 00-1149 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1124)</small>		
26 05 36 00-1150 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	216.38	99.47
<i>For 60 Degree Bend, Deduct</i>	-33.29	
<i>For 30 Degree Bend, Deduct</i>	-61.00	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-13.35	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	10.82	
26 05 36 00-1151 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	251.36	119.31
<i>For 60 Degree Bend, Deduct</i>	-37.23	
<i>For 30 Degree Bend, Deduct</i>	-68.68	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.20	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	12.57	
26 05 36 00-1152 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	282.59	136.83
<i>For 60 Degree Bend, Deduct</i>	-40.80	
<i>For 30 Degree Bend, Deduct</i>	-75.61	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.86	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.13	
26 05 36 00-1153 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	352.45	172.95
<i>For 60 Degree Bend, Deduct</i>	-50.03	
<i>For 30 Degree Bend, Deduct</i>	-92.99	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.84	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.62	
26 05 36 00-1154 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	432.88	211.80
<i>For 60 Degree Bend, Deduct</i>	-61.66	
<i>For 30 Degree Bend, Deduct</i>	-114.53	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.64	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.64	
26 05 36 00-1155 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	496.85	243.15
<i>For 60 Degree Bend, Deduct</i>	-70.74	
<i>For 30 Degree Bend, Deduct</i>	-131.42	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.42	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.84	
26 05 36 00-1156 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	571.20	285.42
<i>For 60 Degree Bend, Deduct</i>	-79.07	
<i>For 30 Degree Bend, Deduct</i>	-147.65	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.33	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.56	
26 05 36 00-1157 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-1124)</small>		
26 05 36 00-1158 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	239.12	102.62
<i>For 60 Degree Bend, Deduct</i>	-39.59	
<i>For 30 Degree Bend, Deduct</i>	-71.69	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	11.96	
26 05 36 00-1159 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	282.16	123.69
<i>For 60 Degree Bend, Deduct</i>	-45.69	
<i>For 30 Degree Bend, Deduct</i>	-83.02	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.11	
26 05 36 00-1160 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	315.97	142.85
<i>For 60 Degree Bend, Deduct</i>	-49.52	
<i>For 30 Degree Bend, Deduct</i>	-90.47	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.69	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	15.80	
26 05 36 00-1161 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	387.83	182.39
<i>For 60 Degree Bend, Deduct</i>	-58.05	
<i>For 30 Degree Bend, Deduct</i>	-106.89	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	19.39	
26 05 36 00-1162 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	474.96	226.58
<i>For 60 Degree Bend, Deduct</i>	-69.90	
<i>For 30 Degree Bend, Deduct</i>	-129.08	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.62	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.75	
26 05 36 00-1163 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	554.87	262.84
<i>For 60 Degree Bend, Deduct</i>	-82.37	
<i>For 30 Degree Bend, Deduct</i>	-151.88	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.59	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.74	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1164 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	644.17	312.92
For 60 Degree Bend, Deduct	-92.64	
For 30 Degree Bend, Deduct	-171.79	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.35	
For 6" Overall Height Instead Of 4-5/8", Add	32.21	
26 05 36 00-1165 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1124)		
26 05 36 00-1166 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	267.98	105.91
For 60 Degree Bend, Deduct	-47.86	
For 30 Degree Bend, Deduct	-85.64	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.98	
For 6" Overall Height Instead Of 4-5/8", Add	13.40	
26 05 36 00-1167 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	307.84	128.62
For 60 Degree Bend, Deduct	-52.29	
For 30 Degree Bend, Deduct	-94.30	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.07	
For 6" Overall Height Instead Of 4-5/8", Add	15.39	
26 05 36 00-1168 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	344.23	149.28
For 60 Degree Bend, Deduct	-56.38	
For 30 Degree Bend, Deduct	-102.25	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.98	
For 6" Overall Height Instead Of 4-5/8", Add	17.21	
26 05 36 00-1169 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	427.29	193.20
For 60 Degree Bend, Deduct	-66.92	
For 30 Degree Bend, Deduct	-122.27	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.62	
For 6" Overall Height Instead Of 4-5/8", Add	21.36	
26 05 36 00-1170 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	533.86	243.15
For 60 Degree Bend, Deduct	-82.96	
For 30 Degree Bend, Deduct	-151.77	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.12	
For 6" Overall Height Instead Of 4-5/8", Add	26.69	
26 05 36 00-1171 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	612.11	285.42
For 60 Degree Bend, Deduct	-92.57	
For 30 Degree Bend, Deduct	-170.15	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.42	
For 6" Overall Height Instead Of 4-5/8", Add	30.61	
26 05 36 00-1172 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	725.87	345.49
For 60 Degree Bend, Deduct	-107.09	
For 30 Degree Bend, Deduct	-197.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.79	
For 6" Overall Height Instead Of 4-5/8", Add	36.29	
26 05 36 00-1173 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1124)		
26 05 36 00-1174 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	335.19	136.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.12	
For 6" Overall Height Instead Of 4-5/8", Add	16.76	
26 05 36 00-1175 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	373.51	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.33	
For 6" Overall Height Instead Of 4-5/8", Add	18.68	
26 05 36 00-1176 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	402.86	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.89	
For 6" Overall Height Instead Of 4-5/8", Add	20.14	
26 05 36 00-1177 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	471.84	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.53	
For 6" Overall Height Instead Of 4-5/8", Add	23.59	
26 05 36 00-1178 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	529.96	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.73	
For 6" Overall Height Instead Of 4-5/8", Add	26.50	
26 05 36 00-1179 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	586.61	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.86	
For 6" Overall Height Instead Of 4-5/8", Add	29.33	
26 05 36 00-1180 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	655.06	312.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.47	
For 6" Overall Height Instead Of 4-5/8", Add	32.75	
26 05 36 00-1181 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1124)		
26 05 36 00-1182 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	353.79	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.49	
For 6" Overall Height Instead Of 4-5/8", Add	17.69	
26 05 36 00-1183 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	394.44	164.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.76	
For 6" Overall Height Instead Of 4-5/8", Add	19.72	
26 05 36 00-1184 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	427.76	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.57	
For 6" Overall Height Instead Of 4-5/8", Add	21.39	
26 05 36 00-1185 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	508.08	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.93	
For 6" Overall Height Instead Of 4-5/8", Add	25.40	
26 05 36 00-1186 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	576.30	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.73	
For 6" Overall Height Instead Of 4-5/8", Add	28.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1187 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	643.29 -39.47 32.16	298.28
26 05 36 00-1188 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	731.71 -44.38 36.59	345.49
26 05 36 00-1189 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1124)</small>		
26 05 36 00-1190 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	427.82 -30.35 21.39	149.14
26 05 36 00-1191 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	471.04 -32.71 23.55	172.81
26 05 36 00-1192 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	516.90 -35.59 25.85	193.20
26 05 36 00-1193 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	607.89 -40.52 30.39	243.15
26 05 36 00-1194 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.14 -44.83 34.31	285.42
26 05 36 00-1195 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	773.28 -49.96 38.66	328.38
26 05 36 00-1196 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	878.69 -55.72 43.93	385.86
26 05 36 00-1197 12" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1198 EA 6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	556.82 -33.78 27.84	262.84
26 05 36 00-1199 EA 9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	602.37 -36.45 30.12	285.42
26 05 36 00-1200 EA 12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	625.76 -37.72 31.29	298.28
26 05 36 00-1201 EA 18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	701.20 -42.75 35.06	328.38
26 05 36 00-1202 EA 24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	777.06 -47.33 38.85	364.50
26 05 36 00-1203 EA 30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	840.94 -51.88 42.05	386.54
26 05 36 00-1204 EA 36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	965.07 -60.04 48.25	437.58
26 05 36 00-1205 24" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1206 EA 6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	678.35 -44.05 33.92	285.42
26 05 36 00-1207 EA 9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	735.72 -47.50 36.79	312.92
26 05 36 00-1208 EA 12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	767.44 -49.38 38.37	328.38
26 05 36 00-1209 EA 18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	847.19 -54.34 42.36	364.50
26 05 36 00-1210 EA 24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	945.18 -60.31 47.26	410.48
26 05 36 00-1211 EA 30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,015.72 -65.10 50.79	437.58
26 05 36 00-1212 EA 36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,280.84 -65.96 64.04	505.58
26 05 36 00-1213 36" Radius Horizontal Tees <small>(26 05 36 00-1124)</small>		
26 05 36 00-1214 EA 6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	807.80 -54.71 40.39	312.92

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1215 EA 9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	870.02	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.21	
For 6" Overall Height Instead Of 4-5/8", Add	43.50	
26 05 36 00-1216 EA 12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	929.00	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.52	
For 6" Overall Height Instead Of 4-5/8", Add	46.45	
26 05 36 00-1217 EA 18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,023.10	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.10	
For 6" Overall Height Instead Of 4-5/8", Add	51.16	
26 05 36 00-1218 EA 24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,155.00	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.45	
For 6" Overall Height Instead Of 4-5/8", Add	57.75	
26 05 36 00-1219 EA 30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,315.90	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.46	
For 6" Overall Height Instead Of 4-5/8", Add	65.80	
26 05 36 00-1220 EA 36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,520.35	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-102.32	
For 6" Overall Height Instead Of 4-5/8", Add	76.02	
26 05 36 00-1221 12" Radius Vertical Tees (26 05 36 00-1124)		
26 05 36 00-1222 EA 6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	672.17	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.95	
For 6" Overall Height Instead Of 4-5/8", Add	33.61	
26 05 36 00-1223 EA 9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	695.93	252.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.53	
For 6" Overall Height Instead Of 4-5/8", Add	34.80	
26 05 36 00-1224 EA 12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	714.61	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.56	
For 6" Overall Height Instead Of 4-5/8", Add	35.73	
26 05 36 00-1225 EA 18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	758.21	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.03	
For 6" Overall Height Instead Of 4-5/8", Add	37.91	
26 05 36 00-1226 EA 24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	803.03	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.44	
For 6" Overall Height Instead Of 4-5/8", Add	40.15	
26 05 36 00-1227 EA 30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	858.99	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.53	
For 6" Overall Height Instead Of 4-5/8", Add	42.95	
26 05 36 00-1228 EA 36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	929.00	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.52	
For 6" Overall Height Instead Of 4-5/8", Add	46.45	
26 05 36 00-1229 24" Radius Vertical Tees (26 05 36 00-1124)		
26 05 36 00-1230 EA 6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	889.93	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.09	
For 6" Overall Height Instead Of 4-5/8", Add	44.50	
26 05 36 00-1231 EA 9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	913.88	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.58	
For 6" Overall Height Instead Of 4-5/8", Add	45.69	
26 05 36 00-1232 EA 12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	939.38	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-70.15	
For 6" Overall Height Instead Of 4-5/8", Add	46.97	
26 05 36 00-1233 EA 18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	998.71	312.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-73.80	
For 6" Overall Height Instead Of 4-5/8", Add	49.94	
26 05 36 00-1234 EA 24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,036.27	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.26	
For 6" Overall Height Instead Of 4-5/8", Add	51.81	
26 05 36 00-1235 EA 30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,108.22	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.44	
For 6" Overall Height Instead Of 4-5/8", Add	55.41	
26 05 36 00-1236 EA 36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,229.59	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.75	
For 6" Overall Height Instead Of 4-5/8", Add	61.48	
26 05 36 00-1237 36" Radius Vertical Tees (26 05 36 00-1124)		
26 05 36 00-1238 EA 6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,335.51	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.76	
For 6" Overall Height Instead Of 4-5/8", Add	66.78	
26 05 36 00-1239 EA 9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,368.12	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-111.95	
For 6" Overall Height Instead Of 4-5/8", Add	68.41	
26 05 36 00-1240 EA 12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,403.53	312.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-114.28	
For 6" Overall Height Instead Of 4-5/8", Add	70.18	
26 05 36 00-1241 EA 18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,469.14	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-118.12	
For 6" Overall Height Instead Of 4-5/8", Add	73.46	
26 05 36 00-1242 EA 24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,512.01	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.82	
For 6" Overall Height Instead Of 4-5/8", Add	75.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1243 EA 30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,622.06 -128.00 81.10	410.48
26 05 36 00-1244 EA 36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,730.06 -133.96 86.50	468.63
26 05 36 00-1245 12" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1246 EA 6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	712.89 -43.92 35.64	328.38
26 05 36 00-1247 EA 9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	758.98 -47.10 37.95	345.49
26 05 36 00-1248 EA 12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	792.64 -48.89 39.63	364.50
26 05 36 00-1249 EA 18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	868.21 -54.61 43.41	386.54
26 05 36 00-1250 EA 24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	961.18 -59.65 48.06	437.58
26 05 36 00-1251 EA 30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,053.70 -66.32 52.69	468.63
26 05 36 00-1252 EA 36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,183.44 -76.22 59.17	505.58
26 05 36 00-1253 24" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1254 EA 6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	925.11 -62.13 46.26	364.50
26 05 36 00-1255 EA 9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	971.46 -64.94 48.57	386.54
26 05 36 00-1256 EA 12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,021.15 -67.91 51.06	410.48
26 05 36 00-1257 EA 18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,083.90 -71.92 54.20	437.58
26 05 36 00-1258 EA 24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,228.24 -80.70 61.41	505.58
26 05 36 00-1259 EA 30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,325.16 -86.91 66.26	547.31
26 05 36 00-1260 EA 36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,459.96 -96.28 73.00	596.57
26 05 36 00-1261 36" Radius Horizontal Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1262 EA 6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,058.16 -71.61 52.91	410.48
26 05 36 00-1263 EA 9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,118.97 -75.43 55.95	437.58
26 05 36 00-1264 EA 12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,193.96 -80.35 59.70	468.63
26 05 36 00-1265 EA 18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,282.78 -86.15 64.14	505.58
26 05 36 00-1266 EA 24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,539.83 -104.26 76.99	596.57
26 05 36 00-1267 EA 30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,696.76 -115.03 84.84	655.67
26 05 36 00-1268 EA 36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,889.39 -128.07 94.47	730.38
26 05 36 00-1269 12" Radius Vertical Crosses <small>(26 05 36 00-1124)</small>		
26 05 36 00-1270 EA 6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	712.89 -43.92 35.64	328.38

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1271 EA 9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	758.98	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.10	
For 6" Overall Height Instead Of 4-5/8", Add	37.95	
26 05 36 00-1272 EA 12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	792.64	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.89	
For 6" Overall Height Instead Of 4-5/8", Add	39.63	
26 05 36 00-1273 EA 18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	868.21	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.61	
For 6" Overall Height Instead Of 4-5/8", Add	43.41	
26 05 36 00-1274 EA 24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	961.18	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.65	
For 6" Overall Height Instead Of 4-5/8", Add	48.06	
26 05 36 00-1275 EA 30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,053.70	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.32	
For 6" Overall Height Instead Of 4-5/8", Add	52.69	
26 05 36 00-1276 EA 36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,181.37	504.21
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.11	
For 6" Overall Height Instead Of 4-5/8", Add	59.07	
26 05 36 00-1277 24" Radius Vertical Crosses (26 05 36 00-1124)		
26 05 36 00-1278 EA 6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	925.11	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.13	
For 6" Overall Height Instead Of 4-5/8", Add	46.26	
26 05 36 00-1279 EA 9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	971.46	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.94	
For 6" Overall Height Instead Of 4-5/8", Add	48.57	
26 05 36 00-1280 EA 12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,021.15	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.91	
For 6" Overall Height Instead Of 4-5/8", Add	51.06	
26 05 36 00-1281 EA 18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,083.90	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.92	
For 6" Overall Height Instead Of 4-5/8", Add	54.20	
26 05 36 00-1282 EA 24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,228.24	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.70	
For 6" Overall Height Instead Of 4-5/8", Add	61.41	
26 05 36 00-1283 EA 30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,325.16	547.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.91	
For 6" Overall Height Instead Of 4-5/8", Add	66.26	
26 05 36 00-1284 EA 36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,459.96	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-96.28	
For 6" Overall Height Instead Of 4-5/8", Add	73.00	
26 05 36 00-1285 36" Radius Vertical Crosses (26 05 36 00-1124)		
26 05 36 00-1286 EA 6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,226.47	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.44	
For 6" Overall Height Instead Of 4-5/8", Add	61.32	
26 05 36 00-1287 EA 9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,294.29	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.96	
For 6" Overall Height Instead Of 4-5/8", Add	64.71	
26 05 36 00-1288 EA 12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,379.80	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.93	
For 6" Overall Height Instead Of 4-5/8", Add	68.99	
26 05 36 00-1289 EA 18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,480.90	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-105.96	
For 6" Overall Height Instead Of 4-5/8", Add	74.05	
26 05 36 00-1290 EA 24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,785.28	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-128.81	
For 6" Overall Height Instead Of 4-5/8", Add	89.26	
26 05 36 00-1291 EA 30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,968.51	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-142.21	
For 6" Overall Height Instead Of 4-5/8", Add	98.43	
26 05 36 00-1292 EA 36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,191.82	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-158.32	
For 6" Overall Height Instead Of 4-5/8", Add	109.59	
26 05 36 00-1293 12" Rung Tray Fittings (26 05 36 00-0744)		
26 05 36 00-1294 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1295 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	300.22	137.24
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.59	
For 6" Overall Height Instead Of 4-5/8", Add	15.01	
26 05 36 00-1296 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	333.89	156.26
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.36	
For 6" Overall Height Instead Of 4-5/8", Add	16.69	
26 05 36 00-1297 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	374.89	172.81
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.09	
For 6" Overall Height Instead Of 4-5/8", Add	18.74	
26 05 36 00-1298 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	450.84	211.80
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.43	
For 6" Overall Height Instead Of 4-5/8", Add	22.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1299 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	526.67	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.40	
For 6" Overall Height Instead Of 4-5/8", Add	26.33	
26 05 36 00-1300 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	584.72	273.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.67	
For 6" Overall Height Instead Of 4-5/8", Add	29.24	
26 05 36 00-1301 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	677.08	312.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.64	
For 6" Overall Height Instead Of 4-5/8", Add	33.85	
26 05 36 00-1302 90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-1293)</small>		
26 05 36 00-1303 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	364.70	142.71
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.58	
For 6" Overall Height Instead Of 4-5/8", Add	18.24	
26 05 36 00-1304 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	405.69	164.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.90	
For 6" Overall Height Instead Of 4-5/8", Add	20.28	
26 05 36 00-1305 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	442.65	182.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.06	
For 6" Overall Height Instead Of 4-5/8", Add	22.13	
26 05 36 00-1306 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	527.93	226.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.92	
For 6" Overall Height Instead Of 4-5/8", Add	26.40	
26 05 36 00-1307 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	602.85	262.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.39	
For 6" Overall Height Instead Of 4-5/8", Add	30.14	
26 05 36 00-1308 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	677.45	298.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.89	
For 6" Overall Height Instead Of 4-5/8", Add	33.87	
26 05 36 00-1309 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	778.78	345.49
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.08	
For 6" Overall Height Instead Of 4-5/8", Add	38.94	
26 05 36 00-1310 90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1293)</small>		
26 05 36 00-1311 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	388.10	149.14
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.38	
For 6" Overall Height Instead Of 4-5/8", Add	19.41	
26 05 36 00-1312 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	430.81	172.68
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.70	
For 6" Overall Height Instead Of 4-5/8", Add	21.54	
26 05 36 00-1313 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	481.53	193.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.05	
For 6" Overall Height Instead Of 4-5/8", Add	24.08	
26 05 36 00-1314 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	584.65	243.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.20	
For 6" Overall Height Instead Of 4-5/8", Add	29.23	
26 05 36 00-1315 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	678.66	285.42
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.08	
For 6" Overall Height Instead Of 4-5/8", Add	33.93	
26 05 36 00-1316 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	770.15	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-49.65	
For 6" Overall Height Instead Of 4-5/8", Add	38.51	
26 05 36 00-1317 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	898.43	385.86
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.69	
For 6" Overall Height Instead Of 4-5/8", Add	44.92	
26 05 36 00-1318 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-1293)</small>		
26 05 36 00-1319 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	212.83	99.47
For 60 Degree Bend, Deduct	-32.12	
For 30 Degree Bend, Deduct	-59.05	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.00	
For 6" Overall Height Instead Of 4-5/8", Add	10.64	
26 05 36 00-1320 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	247.68	119.31
For 60 Degree Bend, Deduct	-36.02	
For 30 Degree Bend, Deduct	-66.66	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.83	
For 6" Overall Height Instead Of 4-5/8", Add	12.38	
26 05 36 00-1321 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	278.78	136.83
For 60 Degree Bend, Deduct	-39.55	
For 30 Degree Bend, Deduct	-73.51	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.48	
For 6" Overall Height Instead Of 4-5/8", Add	13.94	
26 05 36 00-1322 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	347.95	172.95
For 60 Degree Bend, Deduct	-48.54	
For 30 Degree Bend, Deduct	-90.51	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.39	
For 6" Overall Height Instead Of 4-5/8", Add	17.40	
26 05 36 00-1323 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	427.29	211.80
For 60 Degree Bend, Deduct	-59.81	
For 30 Degree Bend, Deduct	-111.46	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.08	
For 6" Overall Height Instead Of 4-5/8", Add	21.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1324 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	490.44	243.15
For 60 Degree Bend, Deduct	-68.63	
For 30 Degree Bend, Deduct	-127.89	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.78	
For 6" Overall Height Instead Of 4-5/8", Add	24.52	
26 05 36 00-1325 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	564.52	285.42
For 60 Degree Bend, Deduct	-76.87	
For 30 Degree Bend, Deduct	-143.97	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.66	
For 6" Overall Height Instead Of 4-5/8", Add	28.23	
26 05 36 00-1326 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1327 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	234.35	102.62
For 60 Degree Bend, Deduct	-38.02	
For 30 Degree Bend, Deduct	-69.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-14.89	
For 6" Overall Height Instead Of 4-5/8", Add	11.72	
26 05 36 00-1328 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	276.85	123.69
For 60 Degree Bend, Deduct	-43.94	
For 30 Degree Bend, Deduct	-80.10	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.38	
For 6" Overall Height Instead Of 4-5/8", Add	13.84	
26 05 36 00-1329 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	310.52	142.85
For 60 Degree Bend, Deduct	-47.72	
For 30 Degree Bend, Deduct	-87.47	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.15	
For 6" Overall Height Instead Of 4-5/8", Add	15.53	
26 05 36 00-1330 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	381.96	182.39
For 60 Degree Bend, Deduct	-56.11	
For 30 Degree Bend, Deduct	-103.66	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.99	
For 6" Overall Height Instead Of 4-5/8", Add	19.10	
26 05 36 00-1331 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	468.14	226.58
For 60 Degree Bend, Deduct	-67.65	
For 30 Degree Bend, Deduct	-125.33	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.94	
For 6" Overall Height Instead Of 4-5/8", Add	23.41	
26 05 36 00-1332 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	546.69	262.84
For 60 Degree Bend, Deduct	-79.67	
For 30 Degree Bend, Deduct	-147.38	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.77	
For 6" Overall Height Instead Of 4-5/8", Add	27.33	
26 05 36 00-1333 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	635.58	312.92
For 60 Degree Bend, Deduct	-89.81	
For 30 Degree Bend, Deduct	-167.07	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.49	
For 6" Overall Height Instead Of 4-5/8", Add	31.78	
26 05 36 00-1334 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)		
26 05 36 00-1335 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	261.57	105.91
For 60 Degree Bend, Deduct	-45.74	
For 30 Degree Bend, Deduct	-82.12	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.34	
For 6" Overall Height Instead Of 4-5/8", Add	13.08	
26 05 36 00-1336 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	301.29	128.62
For 60 Degree Bend, Deduct	-50.13	
For 30 Degree Bend, Deduct	-90.69	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.41	
For 6" Overall Height Instead Of 4-5/8", Add	15.06	
26 05 36 00-1337 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	337.55	149.28
For 60 Degree Bend, Deduct	-54.17	
For 30 Degree Bend, Deduct	-98.58	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.32	
For 6" Overall Height Instead Of 4-5/8", Add	16.88	
26 05 36 00-1338 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	419.93	193.20
For 60 Degree Bend, Deduct	-64.49	
For 30 Degree Bend, Deduct	-118.23	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.89	
For 6" Overall Height Instead Of 4-5/8", Add	21.00	
26 05 36 00-1339 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	524.86	243.15
For 60 Degree Bend, Deduct	-79.99	
For 30 Degree Bend, Deduct	-146.82	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.22	
For 6" Overall Height Instead Of 4-5/8", Add	26.24	
26 05 36 00-1340 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	602.57	285.42
For 60 Degree Bend, Deduct	-89.43	
For 30 Degree Bend, Deduct	-164.90	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.47	
For 6" Overall Height Instead Of 4-5/8", Add	30.13	
26 05 36 00-1341 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	715.37	345.49
For 60 Degree Bend, Deduct	-103.62	
For 30 Degree Bend, Deduct	-191.90	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.74	
For 6" Overall Height Instead Of 4-5/8", Add	35.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1342 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1293)</small>		
26 05 36 00-1343 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	324.48 -21.05 16.22	136.83
26 05 36 00-1344 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	362.21 -23.20 18.11	156.26
26 05 36 00-1345 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	391.37 -24.74 19.57	172.81
26 05 36 00-1346 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	459.96 -28.35 23.00	211.80
26 05 36 00-1347 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	517.50 -31.49 25.88	243.15
26 05 36 00-1348 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	573.56 -34.55 28.68	273.66
26 05 36 00-1349 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	641.62 -38.13 32.08	312.37
26 05 36 00-1350 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1293)</small>		
26 05 36 00-1351 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	342.20 -22.33 17.11	142.71
26 05 36 00-1352 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	382.36 -24.55 19.12	164.19
26 05 36 00-1353 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	415.39 -26.34 20.77	182.39
26 05 36 00-1354 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	495.03 -30.63 24.75	226.58
26 05 36 00-1355 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	562.47 -34.35 28.12	262.84
26 05 36 00-1356 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	628.68 -38.01 31.43	298.28
26 05 36 00-1357 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	716.13 -42.82 35.81	345.49
26 05 36 00-1358 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1293)</small>		
26 05 36 00-1359 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	409.90 -28.56 20.50	149.14
26 05 36 00-1360 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	452.73 -30.88 22.64	172.81
26 05 36 00-1361 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	497.42 -33.64 24.87	193.20
26 05 36 00-1362 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	587.63 -38.50 29.38	243.15
26 05 36 00-1363 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	665.10 -42.72 33.26	285.42
26 05 36 00-1364 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	750.68 -47.70 37.53	328.38
26 05 36 00-1365 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	855.12 -53.36 42.76	385.86
26 05 36 00-1366 12" Radius Horizontal Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1367 EA 6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	544.94 -32.59 27.25	262.84
26 05 36 00-1368 EA 9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	589.71 -35.18 29.49	285.42
26 05 36 00-1369 EA 12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	612.90 -36.43 30.65	298.28

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1370 EA 18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	685.81 -41.22 34.29	328.38
26 05 36 00-1371 EA 24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	760.11 -45.63 38.01	364.50
26 05 36 00-1372 EA 30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	821.27 -49.92 41.06	386.54
26 05 36 00-1373 EA 36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	941.50 -57.68 47.08	437.58
26 05 36 00-1374 24" Radius Horizontal Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1375 EA 6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	658.09 -42.02 32.90	285.42
26 05 36 00-1376 EA 9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	714.30 -45.36 35.72	312.92
26 05 36 00-1377 EA 12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	745.42 -47.18 37.27	328.38
26 05 36 00-1378 EA 18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	823.23 -51.94 41.16	364.50
26 05 36 00-1379 EA 24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	919.07 -57.70 45.95	410.48
26 05 36 00-1380 EA 30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.08 -62.24 49.35	437.58
26 05 36 00-1381 EA 36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,237.01 -81.57 61.85	505.58
26 05 36 00-1382 36" Radius Horizontal Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1383 EA 6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	779.16 -51.84 38.96	312.92
26 05 36 00-1384 EA 9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	840.61 -55.27 42.03	345.49
26 05 36 00-1385 EA 12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	896.86 -59.31 44.84	364.50
26 05 36 00-1386 EA 18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	989.20 -64.71 49.46	410.48
26 05 36 00-1387 EA 24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,117.60 -72.71 55.88	468.63
26 05 36 00-1388 EA 30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,268.56 -84.73 63.43	505.58
26 05 36 00-1389 EA 36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,467.75 -97.06 73.39	596.57
26 05 36 00-1390 12" Radius Vertical Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1391 EA 6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	645.48 -44.28 32.27	243.15
26 05 36 00-1392 EA 9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	668.46 -45.78 33.42	252.71
26 05 36 00-1393 EA 12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.95 -46.80 34.35	262.84
26 05 36 00-1394 EA 18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	729.97 -49.21 36.50	285.42
26 05 36 00-1395 EA 24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	772.45 -52.39 38.62	298.28
26 05 36 00-1396 EA 30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	827.83 -55.42 41.39	328.38
26 05 36 00-1397 EA 36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	896.86 -59.31 44.84	364.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1398 24" Radius Vertical Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1399 EA 6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	844.74 -62.57 42.24	262.84
26 05 36 00-1400 EA 9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	868.10 -64.01 43.41	273.66
26 05 36 00-1401 EA 12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	893.02 -65.51 44.65	285.42
26 05 36 00-1402 EA 18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	950.98 -69.03 47.55	312.92
26 05 36 00-1403 EA 24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.37 -71.37 49.37	328.38
26 05 36 00-1404 EA 30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,058.16 -75.44 52.91	364.50
26 05 36 00-1405 EA 36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,175.04 -83.30 58.75	410.48
26 05 36 00-1406 36" Radius Vertical Tees <small>(26 05 36 00-1293)</small>		
26 05 36 00-1407 EA 6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,249.54 -101.17 62.48	285.42
26 05 36 00-1408 EA 9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,281.02 -103.24 64.05	298.28
26 05 36 00-1409 EA 12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,315.32 -105.46 65.77	312.92
26 05 36 00-1410 EA 18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,379.81 -109.19 68.99	345.49
26 05 36 00-1411 EA 24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,421.57 -111.78 71.08	364.50
26 05 36 00-1412 EA 30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,528.27 -118.62 76.41	410.48
26 05 36 00-1413 EA 36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,635.15 -124.47 81.76	468.63
26 05 36 00-1414 12" Radius Horizontal Crosses <small>(26 05 36 00-1293)</small>		
26 05 36 00-1415 EA 6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	696.33 -42.27 34.82	328.38
26 05 36 00-1416 EA 9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	740.67 -45.27 37.03	345.49
26 05 36 00-1417 EA 12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	774.14 -47.04 38.71	364.50
26 05 36 00-1418 EA 18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	845.81 -52.37 42.29	386.54
26 05 36 00-1419 EA 24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	937.99 -57.33 46.90	437.58
26 05 36 00-1420 EA 30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,026.43 -63.59 51.32	468.63
26 05 36 00-1421 EA 36" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,149.34 -72.81 57.47	505.58
26 05 36 00-1422 24" Radius Horizontal Crosses <small>(26 05 36 00-1293)</small>		
26 05 36 00-1423 EA 6" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	893.36 -58.96 44.67	364.50
26 05 36 00-1424 EA 9" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	938.73 -61.66 46.94	386.54
26 05 36 00-1425 EA 12" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	987.45 -64.54 49.37	410.48

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1426 EA 18" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,048.45	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.38	
For 6" Overall Height Instead Of 4-5/8", Add	52.42	
26 05 36 00-1427 EA 24" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,189.67	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.84	
For 6" Overall Height Instead Of 4-5/8", Add	59.48	
26 05 36 00-1428 EA 30" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,283.86	547.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.78	
For 6" Overall Height Instead Of 4-5/8", Add	64.19	
26 05 36 00-1429 EA 36" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,413.40	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.62	
For 6" Overall Height Instead Of 4-5/8", Add	70.67	
26 05 36 00-1430 36" Radius Horizontal Crosses (26 05 36 00-1293)		
26 05 36 00-1431 EA 6" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,020.76	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.87	
For 6" Overall Height Instead Of 4-5/8", Add	51.04	
26 05 36 00-1432 EA 9" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,080.01	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.53	
For 6" Overall Height Instead Of 4-5/8", Add	54.00	
26 05 36 00-1433 EA 12" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,152.66	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.22	
For 6" Overall Height Instead Of 4-5/8", Add	57.63	
26 05 36 00-1434 EA 18" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,238.76	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.75	
For 6" Overall Height Instead Of 4-5/8", Add	61.94	
26 05 36 00-1435 EA 24" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,485.28	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.81	
For 6" Overall Height Instead Of 4-5/8", Add	74.26	
26 05 36 00-1436 EA 30" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,636.37	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-108.99	
For 6" Overall Height Instead Of 4-5/8", Add	81.82	
26 05 36 00-1437 EA 36" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,822.18	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-121.35	
For 6" Overall Height Instead Of 4-5/8", Add	91.11	
26 05 36 00-1438 12" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1439 EA 6" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	696.33	328.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.27	
For 6" Overall Height Instead Of 4-5/8", Add	34.82	
26 05 36 00-1440 EA 9" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	740.87	345.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.28	
For 6" Overall Height Instead Of 4-5/8", Add	37.04	
26 05 36 00-1441 EA 12" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	774.03	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.03	
For 6" Overall Height Instead Of 4-5/8", Add	38.70	
26 05 36 00-1442 EA 18" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	846.06	386.68
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-52.38	
For 6" Overall Height Instead Of 4-5/8", Add	42.30	
26 05 36 00-1443 EA 24" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	937.99	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.33	
For 6" Overall Height Instead Of 4-5/8", Add	46.90	
26 05 36 00-1444 EA 30" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,026.78	468.77
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.61	
For 6" Overall Height Instead Of 4-5/8", Add	51.34	
26 05 36 00-1445 EA 36" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,148.31	504.89
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.76	
For 6" Overall Height Instead Of 4-5/8", Add	57.42	
26 05 36 00-1446 24" Radius Vertical Crosses (26 05 36 00-1293)		
26 05 36 00-1447 EA 6" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	893.36	364.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-58.96	
For 6" Overall Height Instead Of 4-5/8", Add	44.67	
26 05 36 00-1448 EA 9" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	938.73	386.54
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.66	
For 6" Overall Height Instead Of 4-5/8", Add	46.94	
26 05 36 00-1449 EA 12" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	987.45	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.54	
For 6" Overall Height Instead Of 4-5/8", Add	49.37	
26 05 36 00-1450 EA 18" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,048.45	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.38	
For 6" Overall Height Instead Of 4-5/8", Add	52.42	
26 05 36 00-1451 EA 24" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,189.67	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.84	
For 6" Overall Height Instead Of 4-5/8", Add	59.48	
26 05 36 00-1452 EA 30" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,283.86	547.31
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.78	
For 6" Overall Height Instead Of 4-5/8", Add	64.19	
26 05 36 00-1453 EA 36" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,413.40	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.62	
For 6" Overall Height Instead Of 4-5/8", Add	70.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1454 36" Radius Vertical Crosses <small>(26 05 36 00-1293)</small>		
26 05 36 00-1455 EA 6" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,172.24	410.48
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.02	
For 6" Overall Height Instead Of 4-5/8", Add	58.61	
26 05 36 00-1456 EA 9" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,237.80	437.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-87.31	
For 6" Overall Height Instead Of 4-5/8", Add	61.89	
26 05 36 00-1457 EA 12" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,319.92	468.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.94	
For 6" Overall Height Instead Of 4-5/8", Add	66.00	
26 05 36 00-1458 EA 18" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,417.06	505.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-99.58	
For 6" Overall Height Instead Of 4-5/8", Add	70.85	
26 05 36 00-1459 EA 24" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,706.19	596.57
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-120.90	
For 6" Overall Height Instead Of 4-5/8", Add	85.31	
26 05 36 00-1460 EA 30" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,880.95	655.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-133.45	
For 6" Overall Height Instead Of 4-5/8", Add	94.05	
26 05 36 00-1461 EA 36" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,094.37	730.38
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-148.57	
For 6" Overall Height Instead Of 4-5/8", Add	104.72	
26 05 36 00-1462 Dropout Or End Plates And Reducers <small>(26 05 36 00-0744)</small>		
26 05 36 00-1463 Straight Reducers <small>(26 05 36 00-1462)</small>		
26 05 36 00-1464 EA 9"-6" Reducer, Aluminum Cable Tray.....	256.00	100.98
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.18	
For 6" Overall Height Instead Of 4-5/8", Add	12.80	
26 05 36 00-1465 EA 12"-9" Reducer, Aluminum Cable Tray.....	271.85	109.32
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.07	
For 6" Overall Height Instead Of 4-5/8", Add	13.59	
26 05 36 00-1466 EA 18"-12" Reducer, Aluminum Cable Tray.....	301.93	126.16
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.67	
For 6" Overall Height Instead Of 4-5/8", Add	15.10	
26 05 36 00-1467 EA 24"-18" Reducer, Aluminum Cable Tray.....	336.80	146.00
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.52	
For 6" Overall Height Instead Of 4-5/8", Add	16.84	
26 05 36 00-1468 EA 30"-24" Reducer, Aluminum Cable Tray.....	369.11	164.19
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.23	
For 6" Overall Height Instead Of 4-5/8", Add	18.46	
26 05 36 00-1469 EA 36"-30" Reducer, Aluminum Cable Tray.....	413.97	187.59
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.76	
For 6" Overall Height Instead Of 4-5/8", Add	20.70	
26 05 36 00-1470 Reducers <small>(26 05 36 00-1462)</small>		
26 05 36 00-1471 EA 18"-6" Reducer, Aluminum Cable Tray.....	302.06	126.29
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.68	
For 6" Overall Height Instead Of 4-5/8", Add	15.10	
26 05 36 00-1472 EA 24"-12" Reducer, Aluminum Cable Tray.....	337.15	146.13
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.53	
For 6" Overall Height Instead Of 4-5/8", Add	16.86	
26 05 36 00-1473 EA 30"-12" Reducer, Aluminum Cable Tray.....	368.89	164.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.22	
For 6" Overall Height Instead Of 4-5/8", Add	18.44	
26 05 36 00-1474 EA 30"-18" Reducer, Aluminum Cable Tray.....	370.62	163.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.40	
For 6" Overall Height Instead Of 4-5/8", Add	18.53	
26 05 36 00-1475 EA 36"-12" Reducer, Aluminum Cable Tray.....	412.02	187.59
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.57	
For 6" Overall Height Instead Of 4-5/8", Add	20.60	
26 05 36 00-1476 EA 36"-18" Reducer, Aluminum Cable Tray.....	422.19	192.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.17	
For 6" Overall Height Instead Of 4-5/8", Add	21.11	
26 05 36 00-1477 EA 36"-24" Reducer, Aluminum Cable Tray.....	436.33	198.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.08	
For 6" Overall Height Instead Of 4-5/8", Add	21.82	
26 05 36 00-1478 Dropout Or End Plate <small>(26 05 36 00-1462)</small>		
26 05 36 00-1479 EA 6" Dropout Or End Plate, Aluminum Cable Tray.....	80.00	41.05
26 05 36 00-1480 EA 9" Dropout Or End Plate, Aluminum Cable Tray.....	90.50	46.93
26 05 36 00-1481 EA 12" Dropout Or End Plate, Aluminum Cable Tray.....	97.58	50.49
26 05 36 00-1482 EA 18" Dropout Or End Plate, Aluminum Cable Tray.....	117.48	59.66
26 05 36 00-1483 EA 24" Dropout Or End Plate, Aluminum Cable Tray.....	130.60	65.68
26 05 36 00-1484 EA 30" Dropout Or End Plate, Aluminum Cable Tray.....	146.78	72.93
26 05 36 00-1485 EA 36" Dropout Or End Plate, Aluminum Cable Tray.....	164.78	82.10

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1486 Solid Bottom Cable Tray (26 05 36 00-0001) Note: 3-5/8" Height.		
26 05 36 00-1487 Solid Bottom Galvanized Steel Straight Tray Sections (26 05 36 00-1486)		
26 05 36 00-1488 LF 6" Solid Bottom Steel Cable Tray, Straight Section .....32.11		10.67
For 4-5/8" Overall Height Instead Of 3-5/8", Add	3.03	
26 05 36 00-1489 LF 12" Solid Bottom Steel Cable Tray, Straight Section.....39.92		13.14
For 4-5/8" Overall Height Instead Of 3-5/8", Add	3.80	
26 05 36 00-1490 LF 18" Solid Bottom Steel Cable Tray, Straight Section.....53.66		18.89
For 4-5/8" Overall Height Instead Of 3-5/8", Add	4.90	
26 05 36 00-1491 LF 24" Solid Bottom Steel Cable Tray, Straight Section.....62.02		21.62
For 4-5/8" Overall Height Instead Of 3-5/8", Add	5.69	
26 05 36 00-1492 LF 30" Solid Bottom Steel Cable Tray, Straight Section.....74.40		26.13
For 4-5/8" Overall Height Instead Of 3-5/8", Add	6.80	
26 05 36 00-1493 LF 36" Solid Bottom Steel Cable Tray, Straight Section.....94.00		29.97
For 4-5/8" Overall Height Instead Of 3-5/8", Add	9.11	
26 05 36 00-1494 Solid Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1486)		
26 05 36 00-1495 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1496 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....335.76		136.97
For 4-5/8" Overall Height Instead Of 3-5/8", Add	27.54	
26 05 36 00-1497 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....441.66		192.66
For 4-5/8" Overall Height Instead Of 3-5/8", Add	34.13	
26 05 36 00-1498 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....542.97		243.15
For 4-5/8" Overall Height Instead Of 3-5/8", Add	40.92	
26 05 36 00-1499 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....665.72		298.69
For 4-5/8" Overall Height Instead Of 3-5/8", Add	50.07	
26 05 36 00-1500 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....776.91		346.17
For 4-5/8" Overall Height Instead Of 3-5/8", Add	58.85	
26 05 36 00-1501 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....872.22		386.54
For 4-5/8" Overall Height Instead Of 3-5/8", Add	66.41	
26 05 36 00-1502 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1503 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....390.46		142.57
For 4-5/8" Overall Height Instead Of 3-5/8", Add	34.80	
26 05 36 00-1504 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....520.97		205.38
For 4-5/8" Overall Height Instead Of 3-5/8", Add	43.90	
26 05 36 00-1505 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....644.51		262.84
For 4-5/8" Overall Height Instead Of 3-5/8", Add	52.88	
26 05 36 00-1506 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....788.25		328.38
For 4-5/8" Overall Height Instead Of 3-5/8", Add	63.51	
26 05 36 00-1507 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....924.80		385.86
For 4-5/8" Overall Height Instead Of 3-5/8", Add	74.42	
26 05 36 00-1508 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....1,045.60		437.58
For 4-5/8" Overall Height Instead Of 3-5/8", Add	83.90	
26 05 36 00-1509 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1510 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....471.97		149.00
For 4-5/8" Overall Height Instead Of 3-5/8", Add	45.97	
26 05 36 00-1511 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....617.16		219.33
For 4-5/8" Overall Height Instead Of 3-5/8", Add	56.03	
26 05 36 00-1512 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....784.04		285.83
For 4-5/8" Overall Height Instead Of 3-5/8", Add	69.97	
26 05 36 00-1513 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....941.03		364.50
For 4-5/8" Overall Height Instead Of 3-5/8", Add	80.40	
26 05 36 00-1514 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....1,129.50		437.58
For 4-5/8" Overall Height Instead Of 3-5/8", Add	96.49	
26 05 36 00-1515 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray.....1,290.07		504.21
For 4-5/8" Overall Height Instead Of 3-5/8", Add	109.46	
26 05 36 00-1516 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1517 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....309.02		136.97
For 4-5/8" Overall Height Instead Of 3-5/8", Add	23.52	
26 05 36 00-1518 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....411.54		192.66
For 4-5/8" Overall Height Instead Of 3-5/8", Add	29.61	
26 05 36 00-1519 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....508.07		242.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	35.73	
26 05 36 00-1520 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....623.04		298.28
For 4-5/8" Overall Height Instead Of 3-5/8", Add	43.74	
26 05 36 00-1521 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....726.89		346.17
For 4-5/8" Overall Height Instead Of 3-5/8", Add	51.35	
26 05 36 00-1522 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray.....814.01		385.86
For 4-5/8" Overall Height Instead Of 3-5/8", Add	57.80	
26 05 36 00-1523 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1494)		
26 05 36 00-1524 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray.....352.43		142.71
For 4-5/8" Overall Height Instead Of 3-5/8", Add	29.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1525 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	475.99 37.19	205.24
26 05 36 00-1526 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	593.44 45.16	263.12
26 05 36 00-1527 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	728.02 54.47	328.38
26 05 36 00-1528 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	855.55 63.91	386.54
26 05 36 00-1529 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	966.54 72.05	437.58
26 05 36 00-1530 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1494)</small>		
26 05 36 00-1531 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	416.40 37.60	149.14
26 05 36 00-1532 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	520.23 44.89	198.81
26 05 36 00-1533 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	707.13 58.43	285.83
26 05 36 00-1534 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	858.74 67.95	365.20
26 05 36 00-1535 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,029.46 81.48	437.58
26 05 36 00-1536 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,179.74 92.71	505.58
26 05 36 00-1537 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1538 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	358.82 31.06	136.56
26 05 36 00-1539 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	458.87 36.71	192.66
26 05 36 00-1540 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	545.12 41.24	243.15
26 05 36 00-1541 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	661.42 49.42	298.69
26 05 36 00-1542 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	751.09 54.98	346.17
26 05 36 00-1543 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	823.69 59.26	385.86
26 05 36 00-1544 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1545 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	422.73 39.64	142.57
26 05 36 00-1546 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	544.63 47.45	205.38
26 05 36 00-1547 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	657.42 54.81	262.84
26 05 36 00-1548 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	786.10 63.18	328.38
26 05 36 00-1549 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	894.68 69.90	385.86
26 05 36 00-1550 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,004.72 77.77	437.58
26 05 36 00-1551 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1552 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	499.94 50.17	149.00
26 05 36 00-1553 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	613.92 58.88	199.22
26 05 36 00-1554 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	784.04 69.97	285.83
26 05 36 00-1555 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	945.33 81.04	364.50
26 05 36 00-1556 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,097.23 91.65	437.58
26 05 36 00-1557 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,240.60 102.04	504.21
26 05 36 00-1558 12" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1559 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	588.58 44.49	262.84
26 05 36 00-1560 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	709.93 51.85	327.84
26 05 36 00-1561 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	837.80 61.25	386.54
26 05 36 00-1562 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,000.04 71.73	469.59
26 05 36 00-1563 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,089.93 79.24	505.58

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1564	EA		36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,278.35 92.31	596.57
26 05 36 00-1565			24" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1566	EA		6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	710.24 58.96	285.42
26 05 36 00-1567	EA		12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	880.79 71.36	364.50
26 05 36 00-1568	EA		18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,032.69 81.97	437.58
26 05 36 00-1569	EA		24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,323.07 107.24	547.31
26 05 36 00-1570	EA		30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,441.84 116.84	596.57
26 05 36 00-1571	EA		36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,701.35 133.47	730.38
26 05 36 00-1572			36" Radius Horizontal Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1573	EA		6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	889.31 81.25	312.92
26 05 36 00-1574	EA		12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,095.03 95.84	410.48
26 05 36 00-1575	EA		18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,289.99 109.25	505.58
26 05 36 00-1576	EA		24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,568.77 135.88	596.57
26 05 36 00-1577	EA		30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,720.24 148.40	657.87
26 05 36 00-1578	EA		36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,013.65 165.22	820.96
26 05 36 00-1579			12" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1580	EA		6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	685.39 59.01	262.84
26 05 36 00-1581	EA		12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	805.46 66.09	328.38
26 05 36 00-1582	EA		18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	870.03 69.75	364.50
26 05 36 00-1583	EA		24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	931.25 75.39	385.86
26 05 36 00-1584	EA		30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,036.99 82.61	437.58
26 05 36 00-1585	EA		36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,160.92 89.89	505.58
26 05 36 00-1586			24" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1587	EA		6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	841.47 78.65	285.42
26 05 36 00-1588	EA		12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	990.51 87.82	364.50
26 05 36 00-1589	EA		18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,086.43 94.55	410.48
26 05 36 00-1590	EA		24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,151.01 99.72	437.58
26 05 36 00-1591	EA		30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,305.05 111.50	505.58
26 05 36 00-1592	EA		36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,478.41 122.32	596.57
26 05 36 00-1593			36" Radius Vertical Tees <small>(26 05 36 00-1494)</small>		
26 05 36 00-1594	EA		6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,090.74 111.55	312.37
26 05 36 00-1595	EA		12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,264.98 121.33	410.48
26 05 36 00-1596	EA		18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,404.85 132.63	468.63
26 05 36 00-1597	EA		24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,487.91 138.93	505.58
26 05 36 00-1598	EA		30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,747.32 162.66	596.57
26 05 36 00-1599	EA		36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,888.84 174.04	655.67
26 05 36 00-1600			12" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1601	EA		6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	728.02 54.47	328.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1602 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	839.96	386.54
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	61.58	
26 05 36 00-1603 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,011.17	468.63
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	73.58	
26 05 36 00-1604 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,170.33	547.31
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.33	
26 05 36 00-1605 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,381.14	655.67
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	97.88	
26 05 36 00-1606 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray.....	1,533.56	730.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	108.30	
26 05 36 00-1607 24" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1608 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	937.80	365.20
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	79.80	
26 05 36 00-1609 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,097.23	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	91.65	
26 05 36 00-1610 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,323.07	547.31
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	107.24	
26 05 36 00-1611 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,623.43	657.87
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	133.88	
26 05 36 00-1612 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,787.41	730.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	146.38	
26 05 36 00-1613 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray.....	1,970.62	820.96
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	158.77	
26 05 36 00-1614 36" Radius Horizontal Crosses <small>(26 05 36 00-1494)</small>		
26 05 36 00-1615 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,221.96	410.48
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	114.88	
26 05 36 00-1616 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,434.13	505.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	130.87	
26 05 36 00-1617 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,741.75	657.87
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	151.63	
26 05 36 00-1618 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	1,981.02	730.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	175.42	
26 05 36 00-1619 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	2,196.51	820.96
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	192.65	
26 05 36 00-1620 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray.....	2,443.97	937.13
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	210.40	
26 05 36 00-1621 Straight Reducers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1622 EA 12"-6" Reducer, Solid Bottom, Steel Cable Tray.....	287.85	109.46
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	24.93	
26 05 36 00-1623 EA 18"-12" Reducer, Solid Bottom, Steel Cable Tray.....	313.75	123.69
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	26.44	
26 05 36 00-1624 EA 24"-18" Reducer, Solid Bottom, Steel Cable Tray.....	349.42	142.57
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.66	
26 05 36 00-1625 EA 30"-24" Reducer, Solid Bottom, Steel Cable Tray.....	394.13	164.19
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.75	
26 05 36 00-1626 EA 36"-30" Reducer, Solid Bottom, Steel Cable Tray.....	428.29	182.12
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.89	
26 05 36 00-1627 Reducers <small>(26 05 36 00-1494)</small>		
26 05 36 00-1628 EA 18"-6" Reducer, Solid Bottom, Steel Cable Tray.....	313.87	123.83
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	26.45	
26 05 36 00-1629 EA 24"-12" Reducer, Solid Bottom, Steel Cable Tray.....	347.76	142.85
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.36	
26 05 36 00-1630 EA 30"-12" Reducer, Solid Bottom, Steel Cable Tray.....	389.61	164.05
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.10	
26 05 36 00-1631 EA 30"-18" Reducer, Solid Bottom, Steel Cable Tray.....	391.54	163.92
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.41	
26 05 36 00-1632 EA 36"-12" Reducer, Solid Bottom, Steel Cable Tray.....	426.14	182.12
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.57	
26 05 36 00-1633 EA 36"-18" Reducer, Solid Bottom, Steel Cable Tray.....	428.29	182.12
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.89	
26 05 36 00-1634 EA 36"-24" Reducer, Solid Bottom, Steel Cable Tray.....	430.98	182.39
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	34.24	
26 05 36 00-1635 Dropout Or End Plate <small>(26 05 36 00-1494)</small>		
26 05 36 00-1636 EA 6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	90.35	41.05
26 05 36 00-1637 EA 12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	110.79	50.08
26 05 36 00-1638 EA 18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	128.32	59.39
26 05 36 00-1639 EA 24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	143.99	65.68
26 05 36 00-1640 EA 30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	160.24	72.93
26 05 36 00-1641 EA 36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray.....	178.24	82.10
26 05 36 00-1642 Solid Bottom Aluminum Straight Cable Tray Sections <small>(26 05 36 00-1486)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1643	LF	6"	Solid Bottom Aluminum Cable Tray, Straight Section.....	28.17	8.62
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2.79	
26 05 36 00-1644	LF	12"	Solid Bottom Aluminum Cable Tray, Straight Section.....	34.89	10.13
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	3.55	
26 05 36 00-1645	LF	18"	Solid Bottom Aluminum Cable Tray, Straight Section.....	44.69	13.14
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	4.50	
26 05 36 00-1646	LF	24"	Solid Bottom Aluminum Cable Tray, Straight Section.....	52.73	14.51
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	5.50	
26 05 36 00-1647	LF	30"	Solid Bottom Aluminum Cable Tray, Straight Section.....	64.99	18.75
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	6.63	
26 05 36 00-1648	LF	36"	Solid Bottom Steel Aluminum Tray, Straight Section.....	76.70	20.52
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	8.08	
26 05 36 00-1649			Solid Bottom Aluminum Cable Tray Fittings (26 05 36 00-1496)		
26 05 36 00-1650			90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1651	EA	6"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	339.02	136.97
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.03	
26 05 36 00-1652	EA	12"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	412.12	172.40
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.07	
26 05 36 00-1653	EA	18"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	474.17	193.06
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	38.95	
26 05 36 00-1654	EA	24"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	552.85	226.72
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	45.13	
26 05 36 00-1655	EA	30"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	651.53	263.12
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	53.87	
26 05 36 00-1656	EA	36"	Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	736.87	298.69
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	60.74	
26 05 36 00-1657			90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1658	EA	6"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	395.29	142.57
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	35.52	
26 05 36 00-1659	EA	12"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	491.34	182.67
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	43.27	
26 05 36 00-1660	EA	18"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	555.05	205.24
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	49.05	
26 05 36 00-1661	EA	24"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	668.48	243.15
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	59.74	
26 05 36 00-1662	EA	30"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	776.38	285.01
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	68.95	
26 05 36 00-1663	EA	36"	Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	893.62	328.38
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	79.31	
26 05 36 00-1664			90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1665	EA	6"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	482.00	149.00
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	47.48	
26 05 36 00-1666	EA	12"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	602.91	193.47
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	58.20	
26 05 36 00-1667	EA	18"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	697.91	219.33
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	68.14	
26 05 36 00-1668	EA	24"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	794.13	262.43
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	75.38	
26 05 36 00-1669	EA	30"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	924.89	312.92
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	86.59	
26 05 36 00-1670	EA	36"	Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray	1,079.21	363.96
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	101.23	
26 05 36 00-1671			45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1672	EA	6"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	314.79	136.97
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	24.38	
26 05 36 00-1673	EA	12"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	384.69	172.40
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.96	
26 05 36 00-1674	EA	18"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	440.34	192.93
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.90	
26 05 36 00-1675	EA	24"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	513.55	226.31
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	39.32	
26 05 36 00-1676	EA	30"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	604.67	263.12
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	46.85	
26 05 36 00-1677	EA	36"	Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray	682.85	297.87
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	52.78	
26 05 36 00-1678			45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1649)		
26 05 36 00-1679	EA	6"	Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	360.78	142.71
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.33	
26 05 36 00-1680	EA	12"	Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	449.92	182.39
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.08	
26 05 36 00-1681	EA	18"	Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray	508.87	205.65
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1682 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	610.58 51.06	243.15
26 05 36 00-1683 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	711.41 59.07	285.83
26 05 36 00-1684 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	817.43 67.88	328.38
26 05 36 00-1685 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1649)</small>		
26 05 36 00-1686 EA 6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	430.93 39.78	149.14
26 05 36 00-1687 EA 12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.59 48.91	193.06
26 05 36 00-1688 EA 18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	624.77 57.17	219.33
26 05 36 00-1689 EA 24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	716.77 63.66	263.12
26 05 36 00-1690 EA 30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	836.13 73.28	312.92
26 05 36 00-1691 EA 36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	977.37 85.74	365.20
26 05 36 00-1692 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1693 EA 6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	359.19 31.12	136.56
26 05 36 00-1694 EA 12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	424.24 34.89	172.40
26 05 36 00-1695 EA 18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	475.90 39.21	193.06
26 05 36 00-1696 EA 24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	540.73 43.31	226.72
26 05 36 00-1697 EA 30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	611.70 47.90	263.12
26 05 36 00-1698 EA 36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	674.82 51.58	297.87
26 05 36 00-1699 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1700 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	424.73 39.94	142.57
26 05 36 00-1701 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.92 45.61	182.67
26 05 36 00-1702 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	560.24 49.83	205.24
26 05 36 00-1703 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	642.51 55.85	243.15
26 05 36 00-1704 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	726.16 61.42	285.01
26 05 36 00-1705 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	824.36 68.92	328.38
26 05 36 00-1706 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1707 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	494.12 49.29	149.00
26 05 36 00-1708 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	599.45 57.68	193.47
26 05 36 00-1709 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	666.75 63.47	219.33
26 05 36 00-1710 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	750.84 68.88	262.43
26 05 36 00-1711 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	867.75 78.02	312.92
26 05 36 00-1712 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	966.66 84.35	363.96
26 05 36 00-1713 12" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1714 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	609.41 47.61	262.84
26 05 36 00-1715 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	704.25 55.99	297.87
26 05 36 00-1716 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	781.07 62.43	328.38
26 05 36 00-1717 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	870.12 69.65	365.20
26 05 36 00-1718 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,030.65 81.66	437.58
26 05 36 00-1719 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,258.49 97.56	547.31

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1720 24" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1721 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....757.99	757.99	285.42
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	66.12	
26 05 36 00-1722 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....865.91	865.91	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	75.16	
26 05 36 00-1723 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....967.74	967.74	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.40	
26 05 36 00-1724 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,170.90	1,170.90	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	102.70	
26 05 36 00-1725 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,414.33	1,414.33	547.31
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	120.93	
26 05 36 00-1726 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,560.03	1,560.03	598.34
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	134.28	
26 05 36 00-1727 36" Radius Horizontal Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1728 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....980.30	980.30	312.92
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	94.90	
26 05 36 00-1729 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,109.73	1,109.73	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	105.70	
26 05 36 00-1730 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,264.20	1,264.20	410.48
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	121.22	
26 05 36 00-1731 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,515.76	1,515.76	504.21
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	143.32	
26 05 36 00-1732 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,840.93	1,840.93	657.87
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	166.50	
26 05 36 00-1733 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....2,048.46	2,048.46	730.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	185.54	
26 05 36 00-1734 12" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1735 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....682.14	682.14	262.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	58.52	
26 05 36 00-1736 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....746.53	746.53	298.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	62.26	
26 05 36 00-1737 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....780.38	780.38	312.37
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	64.99	
26 05 36 00-1738 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....823.48	823.48	327.84
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	68.88	
26 05 36 00-1739 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....908.87	908.87	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	75.57	
26 05 36 00-1740 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray .....1,047.96	1,047.96	437.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.26	
26 05 36 00-1741 24" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1742 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....835.91	835.91	285.42
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	77.81	
26 05 36 00-1743 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....928.25	928.25	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.51	
26 05 36 00-1744 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....982.78	982.78	345.49
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	89.83	
26 05 36 00-1745 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,049.12	1,049.12	364.50
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	96.61	
26 05 36 00-1746 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,168.97	1,168.97	410.48
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	106.93	
26 05 36 00-1747 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray .....1,351.26	1,351.26	504.21
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	118.64	
26 05 36 00-1748 36" Radius Vertical Tees <small>(26 05 36 00-1649)</small>		
26 05 36 00-1749 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,083.40	1,083.40	312.37
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	110.45	
26 05 36 00-1750 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,188.84	1,188.84	360.13
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	118.31	
26 05 36 00-1751 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,266.33	1,266.33	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	125.65	
26 05 36 00-1752 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,324.81	1,324.81	410.48
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	130.31	
26 05 36 00-1753 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,473.59	1,473.59	468.63
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	142.94	
26 05 36 00-1754 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray .....1,070.57	1,070.57	596.57
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	61.15	
26 05 36 00-1755 12" Radius Horizontal Crosses <small>(26 05 36 00-1649)</small>		
26 05 36 00-1756 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....715.36	715.36	298.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	57.59	
26 05 36 00-1757 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....793.19	793.19	328.38
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	64.25	
26 05 36 00-1758 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray .....923.49	923.49	385.86
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	74.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1759 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,099.58 86.84	468.63
26 05 36 00-1760 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,200.62 96.05	504.21
26 05 36 00-1761 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,395.53 109.60	598.34
26 05 36 00-1762 24" Radius Horizontal Crosses <small>(26 05 36 00-1649)</small>		
26 05 36 00-1763 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	929.12 84.55	328.93
26 05 36 00-1764 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,049.12 96.61	364.50
26 05 36 00-1765 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,209.00 108.41	437.58
26 05 36 00-1766 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,494.68 132.74	548.81
26 05 36 00-1767 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,637.95 145.96	598.34
26 05 36 00-1768 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,883.96 160.86	730.38
26 05 36 00-1769 36" Radius Horizontal Crosses <small>(26 05 36 00-1649)</small>		
26 05 36 00-1770 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,256.91 127.78	364.50
26 05 36 00-1771 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,385.41 139.40	410.48
26 05 36 00-1772 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,621.72 159.01	505.58
26 05 36 00-1773 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,944.82 182.09	657.87
26 05 36 00-1774 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,135.03 198.52	730.38
26 05 36 00-1775 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,441.82 229.45	820.96
26 05 36 00-1776 Straight Reducers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1777 EA 12"-6" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	263.84 23.93	93.86
26 05 36 00-1778 EA 18"-12" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	292.97 25.73	109.32
26 05 36 00-1779 EA 24"-18" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	323.93 27.97	123.69
26 05 36 00-1780 EA 30"-24" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	366.01 31.11	142.71
26 05 36 00-1781 EA 36"-30" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	408.28 33.92	163.92
26 05 36 00-1782 Reducers <small>(26 05 36 00-1649)</small>		
26 05 36 00-1783 EA 18"-6" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	291.33 25.48	109.32
26 05 36 00-1784 EA 24"-12" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	322.57 27.73	123.96
26 05 36 00-1785 EA 30"-12" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	362.39 30.59	142.57
26 05 36 00-1786 EA 30"-18" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	363.95 30.84	142.57
26 05 36 00-1787 EA 36"-12" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	408.28 33.92	163.92
26 05 36 00-1788 EA 36"-18" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	410.01 34.18	163.92
26 05 36 00-1789 EA 36"-24" Reducer, Solid Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	413.91 34.72	164.19
26 05 36 00-1790 Dropout Or End Plate <small>(26 05 36 00-1649)</small>		
26 05 36 00-1791 EA 6" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	90.31	41.05
26 05 36 00-1792 EA 12" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	108.23	50.08
26 05 36 00-1793 EA 18" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	128.67	59.39
26 05 36 00-1794 EA 24" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	142.10	65.68
26 05 36 00-1795 EA 30" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	159.61	72.93
26 05 36 00-1796 EA 36" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	180.98	82.10
26 05 36 00-1797 Vented Bottom Cable Tray <small>(26 05 36 00-0001)</small> Note: 6" Height.		
26 05 36 00-1798 Vented Bottom Galvanized Steel Cable Tray <small>(26 05 36 00-1797)</small>		
26 05 36 00-1799 LF 6" Vented Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	37.77 -2.58	14.37

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1800 LF 12" Vented Bottom Steel Cable Tray, Straight Section.....	44.14	16.42
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-3.05	
26 05 36 00-1801 LF 18" Vented Bottom Steel Cable Tray, Straight Section.....	51.74	18.89
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-3.60	
26 05 36 00-1802 LF 24" Vented Bottom Steel Cable Tray, Straight Section.....	59.36	21.62
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-4.13	
26 05 36 00-1803 LF 30" Vented Bottom Steel Cable Tray, Straight Section.....	76.98	26.13
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-5.52	
26 05 36 00-1804 LF 36" Vented Bottom Steel Cable Tray, Straight Section.....	92.15	32.83
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-6.47	
26 05 36 00-1805 Vented Bottom Galvanized Steel Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1806 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1807 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	373.11	172.95
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-22.90	
26 05 36 00-1808 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	490.86	233.98
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-29.58	
26 05 36 00-1809 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	613.09	298.28
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.45	
26 05 36 00-1810 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	751.55	365.20
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.72	
26 05 36 00-1811 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	847.45	411.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-50.47	
26 05 36 00-1812 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	970.11	469.59
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-57.87	
26 05 36 00-1813 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1814 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	429.21	182.26
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-27.73	
26 05 36 00-1815 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	565.74	252.71
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-35.51	
26 05 36 00-1816 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	721.96	328.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.83	
26 05 36 00-1817 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	881.02	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-53.90	
26 05 36 00-1818 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	933.79	424.03
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-58.04	
26 05 36 00-1819 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,175.74	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-71.97	
26 05 36 00-1820 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1821 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	508.54	192.66
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-34.79	
26 05 36 00-1822 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	671.03	274.07
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.27	
26 05 36 00-1823 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	865.87	365.20
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-56.15	
26 05 36 00-1824 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,052.48	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-66.20	
26 05 36 00-1825 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,217.02	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-76.09	
26 05 36 00-1826 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,432.64	655.67
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-88.62	
26 05 36 00-1827 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1828 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	354.68	173.09
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-21.05	
26 05 36 00-1829 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	468.68	233.98
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-27.37	
26 05 36 00-1830 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	586.87	297.87
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-33.86	
26 05 36 00-1831 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	719.04	364.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-41.53	
26 05 36 00-1832 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	811.82	411.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-46.91	
26 05 36 00-1833 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	927.11	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-53.66	
26 05 36 00-1834 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1805)		
26 05 36 00-1835 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	401.90	182.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-24.99	
26 05 36 00-1836 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	533.96	252.71
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-32.33	
26 05 36 00-1837 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	684.41	328.93
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-41.03	
26 05 36 00-1838 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	837.70	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-49.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1839 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	959.85 -56.85	469.59
26 05 36 00-1840 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,117.76 -66.17	547.31
26 05 36 00-1841 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1805)</small>		
26 05 36 00-1842 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	467.92 -30.70	193.06
26 05 36 00-1843 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	622.67 -39.49	273.25
26 05 36 00-1844 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	809.28 -50.50	365.20
26 05 36 00-1845 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	994.53 -60.32	469.59
26 05 36 00-1846 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,149.96 -69.39	547.31
26 05 36 00-1847 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,361.39 -81.32	657.87
26 05 36 00-1848 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1805)</small>		
26 05 36 00-1849 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	397.00 -25.33	172.40
26 05 36 00-1850 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	512.29 -31.73	233.98
26 05 36 00-1851 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	621.03 -37.24	298.28
26 05 36 00-1852 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	749.97 -44.56	365.20
26 05 36 00-1853 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	829.98 -48.72	411.31
26 05 36 00-1854 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	933.40 -54.29	468.63
26 05 36 00-1855 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1805)</small>		
26 05 36 00-1856 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	460.96 -30.91	182.26
26 05 36 00-1857 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	587.97 -37.73	252.71
26 05 36 00-1858 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	731.48 -45.78	328.38
26 05 36 00-1859 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	874.67 -53.26	410.48
26 05 36 00-1860 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	995.32 -60.48	468.63
26 05 36 00-1861 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,136.05 -68.00	547.31
26 05 36 00-1862 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1805)</small>		
26 05 36 00-1863 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	533.94 -37.33	192.66
26 05 36 00-1864 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	682.15 -45.38	274.07
26 05 36 00-1865 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	859.52 -55.52	365.20
26 05 36 00-1866 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,049.30 -65.88	468.63
26 05 36 00-1867 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,186.85 -73.08	547.31
26 05 36 00-1868 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,397.71 -85.13	655.67
26 05 36 00-1869 12" Radius Horizontal Tees <small>(26 05 36 00-1805)</small>		
26 05 36 00-1870 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	675.91 -40.23	328.38
26 05 36 00-1871 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	825.66 -48.43	409.66
26 05 36 00-1872 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	944.71 -55.33	469.59
26 05 36 00-1873 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,099.53 -64.34	547.31
26 05 36 00-1874 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,208.72 -71.15	596.57
26 05 36 00-1875 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,327.85 -78.14	655.67
26 05 36 00-1876 24" Radius Horizontal Tees <small>(26 05 36 00-1805)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1877 EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	820.33	364.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-51.65	
26 05 36 00-1878 EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,012.79	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-62.23	
26 05 36 00-1879 EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,170.98	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-71.49	
26 05 36 00-1880 EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,429.47	655.67
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-88.30	
26 05 36 00-1881 EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,582.49	730.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-97.38	
26 05 36 00-1882 EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,771.55	820.96
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-108.74	
26 05 36 00-1883 36" Radius Horizontal Tees (26 05 36 00-1805)		
26 05 36 00-1884 EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	988.98	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-64.69	
26 05 36 00-1885 EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,259.89	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-80.38	
26 05 36 00-1886 EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,475.83	657.87
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-92.76	
26 05 36 00-1887 EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,825.53	820.96
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-114.14	
26 05 36 00-1888 EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,053.36	941.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-126.88	
26 05 36 00-1889 EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,391.08	1,091.74
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-148.13	
26 05 36 00-1890 12" Radius Vertical Tees (26 05 36 00-1805)		
26 05 36 00-1891 EA 6" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	761.65	328.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-48.80	
26 05 36 00-1892 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	901.66	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-55.96	
26 05 36 00-1893 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	951.64	437.58
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-58.70	
26 05 36 00-1894 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,015.96	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-62.55	
26 05 36 00-1895 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,091.80	505.58
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-67.05	
26 05 36 00-1896 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,248.41	596.57
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-75.12	
26 05 36 00-1897 24" Radius Vertical Tees (26 05 36 00-1805)		
26 05 36 00-1898 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	894.96	364.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-59.12	
26 05 36 00-1899 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,082.65	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-69.22	
26 05 36 00-1900 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,158.49	505.58
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-73.72	
26 05 36 00-1901 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,251.95	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-79.59	
26 05 36 00-1902 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,351.62	596.57
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-85.44	
26 05 36 00-1903 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,604.72	730.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-99.61	
26 05 36 00-1904 36" Radius Vertical Tees (26 05 36 00-1805)		
26 05 36 00-1905 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,140.03	409.66
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-79.86	
26 05 36 00-1906 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,380.56	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-92.45	
26 05 36 00-1907 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,478.63	596.57
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-98.14	
26 05 36 00-1908 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,612.38	657.87
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-106.42	
26 05 36 00-1909 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	1,812.71	730.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-120.41	
26 05 36 00-1910 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray.....	2,165.28	937.13
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-138.43	
26 05 36 00-1911 12" Radius Horizontal Crosses (26 05 36 00-1805)		
26 05 36 00-1912 EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	849.26	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-50.72	
26 05 36 00-1913 EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	949.47	469.59
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-55.81	
26 05 36 00-1914 EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,097.94	547.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-64.19	
26 05 36 00-1915 EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,288.16	655.67
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-74.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1916 EA 30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,432.11 -82.56	727.79
26 05 36 00-1917 EA 36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,614.37 -93.02	820.96
26 05 36 00-1918 24" Radius Horizontal Crosses <small>(26 05 36 00-1805)</small>		
26 05 36 00-1919 EA 6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,041.56 -65.02	469.59
26 05 36 00-1920 EA 12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,183.68 -72.76	547.31
26 05 36 00-1921 EA 18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,391.36 -84.49	655.67
26 05 36 00-1922 EA 24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,747.73 -106.36	820.96
26 05 36 00-1923 EA 30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,981.11 -120.01	937.13
26 05 36 00-1924 EA 36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,264.06 -135.43	1,091.74
26 05 36 00-1925 36" Radius Horizontal Crosses <small>(26 05 36 00-1805)</small>		
26 05 36 00-1926 EA 6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,348.80 -89.27	547.31
26 05 36 00-1927 EA 12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,555.22 -100.70	657.87
26 05 36 00-1928 EA 18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,836.65 -115.25	820.96
26 05 36 00-1929 EA 24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,392.88 -147.83	1,097.49
26 05 36 00-1930 EA 30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,811.95 -171.56	1,315.59
26 05 36 00-1931 EA 36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,403.38 -203.51	1,641.93
26 05 36 00-1932 Straight Reducers <small>(26 05 36 00-1805)</small>		
26 05 36 00-1933 EA 12"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	313.20 -19.67	139.83
26 05 36 00-1934 EA 18"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	343.69 -21.35	156.26
26 05 36 00-1935 EA 24"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	392.43 -24.07	182.12
26 05 36 00-1936 EA 30"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	434.16 -26.31	205.24
26 05 36 00-1937 EA 36"-30" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	475.17 -28.68	226.04
26 05 36 00-1938 Reducers <small>(26 05 36 00-1805)</small>		
26 05 36 00-1939 EA 18"-6" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	343.69 -21.35	156.26
26 05 36 00-1940 EA 24"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	391.38 -23.94	182.39
26 05 36 00-1941 EA 30"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	432.23 -26.14	204.97
26 05 36 00-1942 EA 30"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	433.48 -26.28	204.83
26 05 36 00-1943 EA 36"-12" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	473.58 -28.52	226.04
26 05 36 00-1944 EA 36"-18" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	475.17 -28.68	226.04
26 05 36 00-1945 EA 36"-24" Reducer, Vented Bottom, Steel Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	477.59 -28.88	226.58
26 05 36 00-1946 Dropout Or End Plate <small>(26 05 36 00-1805)</small>		
26 05 36 00-1947 EA 6" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	103.27	50.49
26 05 36 00-1948 EA 12" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	122.08	59.25
26 05 36 00-1949 EA 18" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	134.64	65.41
26 05 36 00-1950 EA 24" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	151.10	72.93
26 05 36 00-1951 EA 30" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	168.27	81.96
26 05 36 00-1952 EA 36" Dropout Or End Plate, Vented Bottom, Steel Cable Tray	198.29	97.97
26 05 36 00-1953 Vented Bottom Aluminum Cable Tray <small>(26 05 36 00-1797)</small>		
26 05 36 00-1954 LF 6" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	34.20 -2.52	10.67
26 05 36 00-1955 LF 9" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	37.83 -2.81	11.76
26 05 36 00-1956 LF 12" Vented Bottom Aluminum Cable Tray, Straight Section <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	42.33 -3.14	13.14

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1957 LF 18" Vented Bottom Aluminum Cable Tray, Straight Section	49.00	14.64
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-3.68	
26 05 36 00-1958 LF 24" Vented Bottom Aluminum Cable Tray, Straight Section	55.90	16.28
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-4.24	
26 05 36 00-1959 LF 30" Vented Bottom Aluminum Cable Tray, Straight Section	70.01	18.75
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-5.44	
26 05 36 00-1960 LF 36" Vented Bottom Aluminum Cable Tray, Straight Section	78.50	22.03
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-6.02	
26 05 36 00-1961 Vented Bottom Aluminum Cable Tray Fittings (26 05 36 00-1797)		
26 05 36 00-1962 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1963 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	454.85	172.95
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-31.08	
26 05 36 00-1964 EA 9" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	494.14	187.73
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-33.77	
26 05 36 00-1965 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	545.54	211.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.94	
26 05 36 00-1966 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	615.14	234.25
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-41.99	
26 05 36 00-1967 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	737.31	285.83
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-49.91	
26 05 36 00-1968 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	869.47	328.93
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-59.54	
26 05 36 00-1969 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	958.94	365.20
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-65.46	
26 05 36 00-1970 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1971 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	545.35	182.26
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-39.35	
26 05 36 00-1972 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	660.20	226.58
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-47.14	
26 05 36 00-1973 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	747.38	252.71
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-53.68	
26 05 36 00-1974 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	892.67	312.37
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-63.23	
26 05 36 00-1975 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,031.66	363.96
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-72.84	
26 05 36 00-1976 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,143.12	410.48
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-80.11	
26 05 36 00-1977 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1978 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	661.80	192.66
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-50.12	
26 05 36 00-1979 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	794.70	243.42
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-59.18	
26 05 36 00-1980 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	898.76	274.07
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-67.04	
26 05 36 00-1981 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,059.01	345.49
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-77.11	
26 05 36 00-1982 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,125.71	334.82
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-84.67	
26 05 36 00-1983 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,396.98	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-100.65	
26 05 36 00-1984 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1985 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	418.43	173.09
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-27.42	
26 05 36 00-1986 EA 9" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	454.57	188.00
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-29.79	
26 05 36 00-1987 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	503.02	211.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-32.69	
26 05 36 00-1988 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	565.27	233.98
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-37.03	
26 05 36 00-1989 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	679.25	285.42
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.14	
26 05 36 00-1990 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	798.78	328.93
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-52.47	
26 05 36 00-1991 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	880.80	364.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-57.70	
26 05 36 00-1992 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)		
26 05 36 00-1993 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	492.48	182.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-34.05	
26 05 36 00-1994 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	598.02	226.58
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-40.92	
26 05 36 00-1995 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	676.16	253.13
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-46.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1996 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	811.61 -55.09	312.92
26 05 36 00-1997 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	940.29 -63.60	365.20
26 05 36 00-1998 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,042.15 -70.01	410.48
26 05 36 00-1999 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-1961)</small>		
26 05 36 00-2000 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	587.47 -42.66	193.06
26 05 36 00-2001 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	708.17 -50.58	242.87
26 05 36 00-2002 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	801.51 -57.32	274.07
26 05 36 00-2003 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	953.69 -66.53	346.17
26 05 36 00-2004 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,086.99 -76.49	386.54
26 05 36 00-2005 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,263.24 -87.19	469.59
26 05 36 00-2006 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-1961)</small>		
26 05 36 00-2007 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	490.37 -34.66	172.40
26 05 36 00-2008 EA 9" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	527.10 -37.11	187.32
26 05 36 00-2009 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	569.69 -39.36	211.39
26 05 36 00-2010 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	615.14 -41.99	234.25
26 05 36 00-2011 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	725.23 -48.70	285.83
26 05 36 00-2012 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	809.08 -53.50	328.93
26 05 36 00-2013 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	870.89 -56.71	364.50
26 05 36 00-2014 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-1961)</small>		
26 05 36 00-2015 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	576.75 -42.49	182.26
26 05 36 00-2016 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	674.69 -48.59	226.58
26 05 36 00-2017 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	744.96 -53.43	252.71
26 05 36 00-2018 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	849.98 -58.93	312.92
26 05 36 00-2019 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	953.03 -64.92	364.50
26 05 36 00-2020 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,046.50 -70.44	410.48
26 05 36 00-2021 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1961)</small>		
26 05 36 00-2022 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	659.39 -49.88	192.66
26 05 36 00-2023 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	768.13 -56.52	243.42
26 05 36 00-2024 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	862.53 -63.42	274.07
26 05 36 00-2025 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,015.53 -72.76	345.49
26 05 36 00-2026 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,127.33 -80.52	386.54
26 05 36 00-2027 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,278.61 -88.81	468.63
26 05 36 00-2028 12" Radius Horizontal Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2029 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	800.96 -52.73	328.38
26 05 36 00-2030 EA 9" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	836.77 -54.88	345.49
26 05 36 00-2031 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	889.14 -58.59	363.96
26 05 36 00-2032 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,014.04 -67.13	411.31
26 05 36 00-2033 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,157.83 -76.73	468.63
26 05 36 00-2034 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,315.60 -85.95	547.31

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2035 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,453.36 -95.62	596.57
26 05 36 00-2036 24" Radius Horizontal Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2037 EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	994.09 -69.03	364.50
26 05 36 00-2038 EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,122.43 -78.10	409.66
26 05 36 00-2039 EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,264.12 -87.36	468.63
26 05 36 00-2040 EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,513.67 -105.88	545.80
26 05 36 00-2041 EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,748.61 -120.04	657.87
26 05 36 00-2042 EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,978.27 -136.96	730.38
26 05 36 00-2043 36" Radius Horizontal Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2044 EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,304.97 -96.29	410.48
26 05 36 00-2045 EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,493.61 -110.31	468.63
26 05 36 00-2046 EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,571.10 -119.02	457.14
26 05 36 00-2047 EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,034.99 -148.86	655.67
26 05 36 00-2048 EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,376.28 -168.94	824.24
26 05 36 00-2049 EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,721.49 -194.05	937.13
26 05 36 00-2050 12" Radius Vertical Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2051 EA 6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	895.17 -62.15	328.38
26 05 36 00-2052 EA 9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	926.15 -63.82	345.49
26 05 36 00-2053 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	984.43 -68.06	364.50
26 05 36 00-2054 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,023.45 -70.14	386.54
26 05 36 00-2055 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,071.70 -73.03	409.66
26 05 36 00-2056 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,135.20 -77.05	437.58
26 05 36 00-2057 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,263.21 -84.30	504.21
26 05 36 00-2058 24" Radius Vertical Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2059 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,100.38 -79.66	364.50
26 05 36 00-2060 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,214.22 -87.28	409.66
26 05 36 00-2061 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,297.05 -93.24	437.58
26 05 36 00-2062 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,384.90 -99.44	468.63
26 05 36 00-2063 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,492.70 -107.25	504.21
26 05 36 00-2064 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,661.60 -116.30	598.34
26 05 36 00-2065 36" Radius Vertical Tees <small>(26 05 36 00-1961)</small>		
26 05 36 00-2066 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,443.72 -110.23	409.66
26 05 36 00-2067 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,590.24 -119.98	468.63
26 05 36 00-2068 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,673.88 -125.37	504.21
26 05 36 00-2069 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,808.43 -135.11	548.81
26 05 36 00-2070 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,963.56 -146.49	598.34
26 05 36 00-2071 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,227.60 -162.11	727.79
26 05 36 00-2072 12" Radius Horizontal Crosses <small>(26 05 36 00-1961)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2073 EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	924.04	364.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-62.03	
26 05 36 00-2074 EA 9" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	982.39	386.54
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-66.03	
26 05 36 00-2075 EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,033.36	411.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-69.06	
26 05 36 00-2076 EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,145.75	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-75.53	
26 05 36 00-2077 EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,315.59	545.80
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-86.07	
26 05 36 00-2078 EA 30" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,484.30	594.92
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-98.86	
26 05 36 00-2079 EA 36" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray.....	1,811.58	730.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-120.29	
26 05 36 00-2080 24" Radius Horizontal Crosses <small>(26 05 36 00-1961)</small>		
26 05 36 00-2081 EA 6" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,253.19	411.31
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-91.04	
26 05 36 00-2082 EA 12" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,401.81	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-101.13	
26 05 36 00-2083 EA 18" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,578.90	545.80
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-112.40	
26 05 36 00-2084 EA 24" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	1,865.89	655.67
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-131.95	
26 05 36 00-2085 EA 30" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	2,046.43	727.79
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-143.99	
26 05 36 00-2086 EA 36" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray.....	2,504.07	937.13
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-172.31	
26 05 36 00-2087 36" Radius Horizontal Crosses <small>(26 05 36 00-1961)</small>		
26 05 36 00-2088 EA 6" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,711.02	468.63
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-132.05	
26 05 36 00-2089 EA 12" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	1,905.06	548.81
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-144.78	
26 05 36 00-2090 EA 18" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	2,167.86	655.67
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-162.14	
26 05 36 00-2091 EA 24" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	2,617.85	824.24
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-193.10	
26 05 36 00-2092 EA 30" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	2,921.90	941.50
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-213.73	
26 05 36 00-2093 EA 36" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray.....	3,389.70	1,091.74
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-248.00	
26 05 36 00-2094 Straight Reducers <small>(26 05 36 00-1961)</small>		
26 05 36 00-2095 EA 9"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	337.14	109.46
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-24.59	
26 05 36 00-2096 EA 12"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	354.03	115.35
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-25.79	
26 05 36 00-2097 EA 18"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	401.83	136.69
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-28.79	
26 05 36 00-2098 EA 24"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	446.14	156.12
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-31.61	
26 05 36 00-2099 EA 30"-24" Reducer, Vented Bottom, Aluminum Cable Tray.....	494.90	182.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-34.29	
26 05 36 00-2100 EA 36"-30" Reducer, Vented Bottom, Aluminum Cable Tray.....	539.48	204.83
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.88	
26 05 36 00-2101 Reducers <small>(26 05 36 00-1961)</small>		
26 05 36 00-2102 EA 12"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	353.70	115.08
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-25.78	
26 05 36 00-2103 EA 18"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	401.68	136.69
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-28.78	
26 05 36 00-2104 EA 18"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	401.68	136.69
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-28.78	
26 05 36 00-2105 EA 24"-6" Reducer, Vented Bottom, Aluminum Cable Tray.....	446.34	156.26
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-31.62	
26 05 36 00-2106 EA 24"-9" Reducer, Vented Bottom, Aluminum Cable Tray.....	446.34	156.26
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-31.62	
26 05 36 00-2107 EA 24"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	446.73	156.40
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-31.64	
26 05 36 00-2108 EA 30"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	499.45	182.26
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-34.76	
26 05 36 00-2109 EA 30"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	494.36	182.12
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-34.26	
26 05 36 00-2110 EA 36"-12" Reducer, Vented Bottom, Aluminum Cable Tray.....	539.48	204.83
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.88	
26 05 36 00-2111 EA 36"-18" Reducer, Vented Bottom, Aluminum Cable Tray.....	539.48	204.83
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.88	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2112 EA 36"-24" Reducer, Vented Bottom, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	540.16 -36.91	205.24
26 05 36 00-2113 Dropout Or End Plate <small>(26 05 36 00-1961)</small>		
26 05 36 00-2114 EA 6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	115.79	50.49
26 05 36 00-2115 EA 9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	126.35	55.14
26 05 36 00-2116 EA 12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	136.10	59.25
26 05 36 00-2117 EA 18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	154.05	65.41
26 05 36 00-2118 EA 24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	176.00	72.93
26 05 36 00-2119 EA 30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	194.65	81.96
26 05 36 00-2120 EA 36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray	222.84	93.86
26 05 36 00-2121 Covers And Dividers <small>(26 05 36 00-0001)</small>		
26 05 36 00-2122 Galvanized Steel Covers <small>(26 05 36 00-2121)</small>		
26 05 36 00-2123 Ventilated Straight Sections <small>(26 05 36 00-2122)</small>		
26 05 36 00-2124 LF 6" Steel Cable Tray Cover, Straight Section	9.17	2.46
26 05 36 00-2125 LF 9" Steel Cable Tray Cover, Straight Section	10.98	2.88
26 05 36 00-2126 LF 12" Steel Cable Tray Cover, Straight Section	12.84	3.29
26 05 36 00-2127 LF 18" Steel Cable Tray Cover, Straight Section	17.37	4.38
26 05 36 00-2128 LF 24" Steel Cable Tray Cover, Straight Section	22.25	5.88
26 05 36 00-2129 LF 30" Steel Cable Tray Cover, Straight Section	27.05	7.25
26 05 36 00-2130 LF 36" Steel Cable Tray Cover, Straight Section	154.17	82.23
26 05 36 00-2131 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2132 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	51.96	8.76
26 05 36 00-2133 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	58.38	10.26
26 05 36 00-2134 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	63.87	12.17
26 05 36 00-2135 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	86.31	15.60
26 05 36 00-2136 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	106.17	19.84
26 05 36 00-2137 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	127.10	22.03
26 05 36 00-2138 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	153.39	26.27
26 05 36 00-2139 90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2140 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	78.05	9.72
26 05 36 00-2141 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	82.40	11.35
26 05 36 00-2142 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	93.51	13.69
26 05 36 00-2143 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	116.19	17.37
26 05 36 00-2144 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	142.91	21.89
26 05 36 00-2145 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	181.79	25.18
26 05 36 00-2146 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	211.76	29.83
26 05 36 00-2147 90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2148 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	108.66	10.94
26 05 36 00-2149 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	121.10	12.58
26 05 36 00-2150 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	132.41	15.60
26 05 36 00-2151 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	166.95	18.20
26 05 36 00-2152 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	204.04	25.31
26 05 36 00-2153 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	239.72	28.60
26 05 36 00-2154 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	280.11	32.83
26 05 36 00-2155 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2156 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	41.17	8.76
<i>For 60 Degree Bend, Deduct</i>	-10.21	
<i>For 30 Degree Bend, Deduct</i>	-17.51	
26 05 36 00-2157 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	48.85	10.26
<i>For 60 Degree Bend, Deduct</i>	-12.19	
<i>For 30 Degree Bend, Deduct</i>	-20.88	
26 05 36 00-2158 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	55.14	12.17
<i>For 60 Degree Bend, Deduct</i>	-13.55	
<i>For 30 Degree Bend, Deduct</i>	-23.25	
26 05 36 00-2159 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	66.92	14.91
<i>For 60 Degree Bend, Deduct</i>	-16.37	
<i>For 30 Degree Bend, Deduct</i>	-28.11	
26 05 36 00-2160 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	78.07	17.24
<i>For 60 Degree Bend, Deduct</i>	-19.13	
<i>For 30 Degree Bend, Deduct</i>	-32.84	
26 05 36 00-2161 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	91.12	19.84
<i>For 60 Degree Bend, Deduct</i>	-22.44	
<i>For 30 Degree Bend, Deduct</i>	-38.51	
26 05 36 00-2162 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	101.59	21.89
<i>For 60 Degree Bend, Deduct</i>	-25.13	
<i>For 30 Degree Bend, Deduct</i>	-43.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2163 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2164 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	55.05 -14.45 -24.63	9.72
26 05 36 00-2165 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	62.55 -16.30 -27.79	11.35
26 05 36 00-2166 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	72.08 -18.53 -31.64	13.69
26 05 36 00-2167 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	83.77 -21.34 -36.48	16.42
26 05 36 00-2168 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	96.43 -24.62 -42.07	18.75
26 05 36 00-2169 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	119.14 -30.90 -52.72	21.89
26 05 36 00-2170 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	132.64 -34.08 -58.20	25.31
26 05 36 00-2171 45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2122)</small>		
26 05 36 00-2172 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	74.55 -20.42 -34.64	10.94
26 05 36 00-2173 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	84.58 -23.07 -39.14	12.58
26 05 36 00-2174 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	95.82 -25.65 -43.62	15.60
26 05 36 00-2175 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	109.08 -29.35 -49.88	17.37
26 05 36 00-2176 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	132.99 -35.76 -60.77	21.21
26 05 36 00-2177 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	148.52 -39.32 -66.94	25.31
26 05 36 00-2178 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	174.24 -47.00 -79.86	27.36
26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2180 EA 6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	45.73	8.76
26 05 36 00-2181 EA 9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	48.85	10.26
26 05 36 00-2182 EA 12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	54.35	12.17
26 05 36 00-2183 EA 18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	63.79	14.91
26 05 36 00-2184 EA 24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	71.87	19.29
26 05 36 00-2185 EA 30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	80.26	22.03
26 05 36 00-2186 EA 36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover	100.10	26.27
26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2188 EA 6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	54.24	9.72
26 05 36 00-2189 EA 9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	60.96	11.35
26 05 36 00-2190 EA 12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	66.52	13.69
26 05 36 00-2191 EA 18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	85.31	16.42
26 05 36 00-2192 EA 24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	100.40	21.21
26 05 36 00-2193 EA 30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	115.92	25.31
26 05 36 00-2194 EA 36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover	133.96	29.83
26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-2122)</small>		
26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	62.62	10.94
26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	77.43	12.58
26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	89.54	15.60
26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	109.08	17.37
26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	129.36	22.22
26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	153.99	28.60
26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover	180.08	32.83
26 05 36 00-2203 12" Radius Horizontal Tees <small>(26 05 36 00-2122)</small>		
26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	80.17	14.23
26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	85.31	16.42
26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover	97.19	19.29

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	115.97	21.89
26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	142.17	25.31
26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	178.20	36.39
26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover.....	214.12	43.65
26 05 36 00-2211 24" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	113.79	14.91
26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	130.50	17.37
26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	138.96	20.52
26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	174.09	23.54
26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	251.89	27.36
26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	303.44	41.05
26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover.....	342.94	50.49
26 05 36 00-2219 36" Radius Horizontal Tees (26 05 36 00-2122)		
26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	186.36	15.60
26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	193.91	18.20
26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	217.53	21.89
26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	254.96	25.31
26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	329.25	29.83
26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	381.63	47.07
26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover.....	443.73	59.52
26 05 36 00-2227 12" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	116.30	19.29
26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	123.12	20.52
26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	135.81	21.89
26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	159.63	25.31
26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	203.54	36.39
26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	236.26	43.65
26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover.....	268.66	46.93
26 05 36 00-2235 24" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2236 EA 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	194.61	20.52
26 05 36 00-2237 EA 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	211.18	21.89
26 05 36 00-2238 EA 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	226.48	23.54
26 05 36 00-2239 EA 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	269.36	27.36
26 05 36 00-2240 EA 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	341.50	41.05
26 05 36 00-2241 EA 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	392.06	50.49
26 05 36 00-2242 EA 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	437.15	54.60
26 05 36 00-2243 36" Radius Horizontal Crosses (26 05 36 00-2122)		
26 05 36 00-2244 EA 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	304.85	21.89
26 05 36 00-2245 EA 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	316.99	23.54
26 05 36 00-2246 EA 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	334.35	25.31
26 05 36 00-2247 EA 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	386.41	29.83
26 05 36 00-2248 EA 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	507.01	46.93
26 05 36 00-2249 EA 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	560.09	59.80
26 05 36 00-2250 EA 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	601.65	65.68
26 05 36 00-2251 Reducers (26 05 36 00-2122)		
26 05 36 00-2252 EA 9"-6" Reducer, Steel Cable Tray Covers.....	52.83	10.26
26 05 36 00-2253 EA 12"-6" Reducer, Steel Cable Tray Covers.....	57.56	12.17
26 05 36 00-2254 EA 12"-9" Reducer, Steel Cable Tray Covers.....	57.56	12.17
26 05 36 00-2255 EA 18"-6" Reducer, Steel Cable Tray Covers.....	64.57	14.91
26 05 36 00-2256 EA 18"-12" Reducer, Steel Cable Tray Covers.....	64.57	14.91
26 05 36 00-2257 EA 24"-12" Reducer, Steel Cable Tray Covers.....	78.17	16.42
26 05 36 00-2258 EA 24"-18" Reducer, Steel Cable Tray Covers.....	82.93	16.42
26 05 36 00-2259 EA 30"-12" Reducer, Steel Cable Tray Covers.....	82.11	18.75
26 05 36 00-2260 EA 30"-18" Reducer, Steel Cable Tray Covers.....	86.87	18.75
26 05 36 00-2261 EA 30"-24" Reducer, Steel Cable Tray Covers.....	90.05	18.75
26 05 36 00-2262 EA 36"-12" Reducer, Steel Cable Tray Covers.....	94.47	20.52
26 05 36 00-2263 EA 36"-18" Reducer, Steel Cable Tray Covers.....	96.06	20.52
26 05 36 00-2264 EA 36"-24" Reducer, Steel Cable Tray Covers.....	97.65	20.52
26 05 36 00-2265 EA 36"-30" Reducer, Steel Cable Tray Covers.....	98.44	20.52
26 05 36 00-2266 Aluminum Covers (26 05 36 00-2121)		
26 05 36 00-2267 Ventilated Straight Sections (26 05 36 00-2266)		
26 05 36 00-2268 LF 6" Aluminum Cable Tray Cover, Straight Section	12.13	2.46
26 05 36 00-2269 LF 9" Aluminum Cable Tray Cover, Straight Section	14.45	2.88
26 05 36 00-2270 LF 12" Aluminum Cable Tray Cover, Straight Section	16.95	3.29
26 05 36 00-2271 LF 18" Aluminum Cable Tray Cover, Straight Section	22.56	4.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2272 LF 24" Aluminum Cable Tray Cover, Straight Section	29.06	5.88
26 05 36 00-2273 LF 30" Aluminum Cable Tray Cover, Straight Section	33.15	7.25
26 05 36 00-2274 LF 36" Aluminum Cable Tray Cover, Straight Section	159.42	82.23
26 05 36 00-2275 90 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2276 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	66.69	8.76
26 05 36 00-2277 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	71.40	10.26
26 05 36 00-2278 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	79.04	12.17
26 05 36 00-2279 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	102.91	15.60
26 05 36 00-2280 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	130.43	19.84
26 05 36 00-2281 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	153.12	22.03
26 05 36 00-2282 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	186.38	26.27
26 05 36 00-2283 90 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2284 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	87.40	9.72
26 05 36 00-2285 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	107.13	11.35
26 05 36 00-2286 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	120.15	13.69
26 05 36 00-2287 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	144.26	17.37
26 05 36 00-2288 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	179.07	21.89
26 05 36 00-2289 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	216.29	25.18
26 05 36 00-2290 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	264.76	29.83
26 05 36 00-2291 90 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2292 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	140.34	10.94
26 05 36 00-2293 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	154.56	12.58
26 05 36 00-2294 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	177.63	15.60
26 05 36 00-2295 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	211.42	18.20
26 05 36 00-2296 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	261.56	25.31
26 05 36 00-2297 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	301.02	28.60
26 05 36 00-2298 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	351.05	32.83
26 05 36 00-2299 45 Degree, 12" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2300 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	53.12	8.76
<i>For 60 Degree Bend, Deduct</i>	-14.16	
<i>For 30 Degree Bend, Deduct</i>	-24.09	
26 05 36 00-2301 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	56.70	10.26
<i>For 60 Degree Bend, Deduct</i>	-14.78	
<i>For 30 Degree Bend, Deduct</i>	-25.20	
26 05 36 00-2302 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	64.56	12.17
<i>For 60 Degree Bend, Deduct</i>	-16.66	
<i>For 30 Degree Bend, Deduct</i>	-28.43	
26 05 36 00-2303 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	75.76	14.91
<i>For 60 Degree Bend, Deduct</i>	-19.29	
<i>For 30 Degree Bend, Deduct</i>	-32.97	
26 05 36 00-2304 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	85.42	17.24
<i>For 60 Degree Bend, Deduct</i>	-21.55	
<i>For 30 Degree Bend, Deduct</i>	-36.88	
26 05 36 00-2305 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	104.44	19.84
<i>For 60 Degree Bend, Deduct</i>	-26.84	
<i>For 30 Degree Bend, Deduct</i>	-45.83	
26 05 36 00-2306 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	122.47	21.89
<i>For 60 Degree Bend, Deduct</i>	-32.02	
<i>For 30 Degree Bend, Deduct</i>	-54.59	
26 05 36 00-2307 45 Degree, 24" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2308 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	60.84	9.72
<i>For 60 Degree Bend, Deduct</i>	-16.36	
<i>For 30 Degree Bend, Deduct</i>	-27.81	
26 05 36 00-2309 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	75.46	11.35
<i>For 60 Degree Bend, Deduct</i>	-20.56	
<i>For 30 Degree Bend, Deduct</i>	-34.89	
26 05 36 00-2310 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	81.69	13.69
<i>For 60 Degree Bend, Deduct</i>	-21.70	
<i>For 30 Degree Bend, Deduct</i>	-36.93	
26 05 36 00-2311 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	98.68	16.42
<i>For 60 Degree Bend, Deduct</i>	-26.26	
<i>For 30 Degree Bend, Deduct</i>	-44.68	
26 05 36 00-2312 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	119.57	18.75
<i>For 60 Degree Bend, Deduct</i>	-32.25	
<i>For 30 Degree Bend, Deduct</i>	-54.80	
26 05 36 00-2313 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	138.40	21.89
<i>For 60 Degree Bend, Deduct</i>	-37.26	
<i>For 30 Degree Bend, Deduct</i>	-63.32	
26 05 36 00-2314 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	159.80	25.31
<i>For 60 Degree Bend, Deduct</i>	-43.04	
<i>For 30 Degree Bend, Deduct</i>	-73.14	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2315			45 Degree, 36" Radius Horizontal Elbows <small>(26 05 36 00-2266)</small>		
26 05 36 00-2316	EA		6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	95.12	10.94
			<i>For 60 Degree Bend, Deduct</i>	-27.21	
			<i>For 30 Degree Bend, Deduct</i>	-45.95	
26 05 36 00-2317	EA		9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	104.79	12.58
			<i>For 60 Degree Bend, Deduct</i>	-29.73	
			<i>For 30 Degree Bend, Deduct</i>	-50.26	
26 05 36 00-2318	EA		12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	114.20	15.60
			<i>For 60 Degree Bend, Deduct</i>	-31.72	
			<i>For 30 Degree Bend, Deduct</i>	-53.72	
26 05 36 00-2319	EA		18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	135.24	17.37
			<i>For 60 Degree Bend, Deduct</i>	-37.98	
			<i>For 30 Degree Bend, Deduct</i>	-64.27	
26 05 36 00-2320	EA		24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	164.32	21.21
			<i>For 60 Degree Bend, Deduct</i>	-46.10	
			<i>For 30 Degree Bend, Deduct</i>	-78.00	
26 05 36 00-2321	EA		30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	189.21	25.31
			<i>For 60 Degree Bend, Deduct</i>	-52.75	
			<i>For 30 Degree Bend, Deduct</i>	-89.32	
26 05 36 00-2322	EA		36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	213.07	27.36
			<i>For 60 Degree Bend, Deduct</i>	-59.82	
			<i>For 30 Degree Bend, Deduct</i>	-101.21	
26 05 36 00-2323			90 Degree, 12" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2324	EA		6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	58.96	8.76
26 05 36 00-2325	EA		9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	61.79	10.26
26 05 36 00-2326	EA		12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	68.86	12.17
26 05 36 00-2327	EA		18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	81.46	14.91
26 05 36 00-2328	EA		24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	91.01	19.29
26 05 36 00-2329	EA		30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	96.56	22.03
26 05 36 00-2330	EA		36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	116.14	26.27
26 05 36 00-2331			90 Degree, 24" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2332	EA		6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	67.04	9.72
26 05 36 00-2333	EA		9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	74.32	11.35
26 05 36 00-2334	EA		12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	82.82	13.69
26 05 36 00-2335	EA		18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	99.76	16.42
26 05 36 00-2336	EA		24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	114.49	21.21
26 05 36 00-2337	EA		30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	143.91	25.31
26 05 36 00-2338	EA		36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover.....	160.68	29.83
26 05 36 00-2339			90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-2266)</small>		
26 05 36 00-2340	EA		6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	76.99	10.94
26 05 36 00-2341	EA		9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	93.47	12.58
26 05 36 00-2342	EA		12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	109.75	15.60
26 05 36 00-2343	EA		18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	130.72	17.37
26 05 36 00-2344	EA		24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	160.37	24.22
26 05 36 00-2345	EA		30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	199.21	28.60
26 05 36 00-2346	EA		36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover.....	217.56	32.83
26 05 36 00-2347			12" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2348	EA		6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	96.21	14.23
26 05 36 00-2349	EA		9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	104.29	16.42
26 05 36 00-2350	EA		12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	118.07	19.29
26 05 36 00-2351	EA		18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	138.40	21.89
26 05 36 00-2352	EA		24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	171.11	25.31
26 05 36 00-2353	EA		30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	212.31	36.39
26 05 36 00-2354	EA		36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover.....	256.08	43.65
26 05 36 00-2355			24" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2356	EA		6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	142.54	14.91
26 05 36 00-2357	EA		9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	160.12	17.37
26 05 36 00-2358	EA		12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	181.24	20.52
26 05 36 00-2359	EA		18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	211.09	23.54
26 05 36 00-2360	EA		24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	319.27	27.36
26 05 36 00-2361	EA		30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	371.65	41.05
26 05 36 00-2362	EA		36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover.....	421.27	50.49
26 05 36 00-2363			36" Radius Horizontal Tees <small>(26 05 36 00-2266)</small>		
26 05 36 00-2364	EA		6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	240.95	15.60
26 05 36 00-2365	EA		9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	249.85	18.20
26 05 36 00-2366	EA		12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	278.63	21.89
26 05 36 00-2367	EA		18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	315.99	25.31
26 05 36 00-2368	EA		24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	398.25	29.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2369 EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	469.81	47.07
26 05 36 00-2370 EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover.....	540.41	59.52
26 05 36 00-2371 12" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2372 EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	143.02	19.29
26 05 36 00-2373 EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	151.87	20.52
26 05 36 00-2374 EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	167.81	21.89
26 05 36 00-2375 EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	200.52	25.31
26 05 36 00-2376 EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	243.92	36.39
26 05 36 00-2377 EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	289.94	43.65
26 05 36 00-2378 EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover.....	329.28	46.93
26 05 36 00-2379 24" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2380 EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	251.46	20.52
26 05 36 00-2381 EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	269.58	21.89
26 05 36 00-2382 EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	290.28	23.54
26 05 36 00-2383 EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	337.37	27.36
26 05 36 00-2384 EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	416.85	41.05
26 05 36 00-2385 EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	491.31	50.49
26 05 36 00-2386 EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover.....	532.24	54.60
26 05 36 00-2387 36" Radius Horizontal Crosses (26 05 36 00-2266)		
26 05 36 00-2388 EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	384.97	21.89
26 05 36 00-2389 EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	403.42	23.54
26 05 36 00-2390 EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	433.64	25.31
26 05 36 00-2391 EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	479.71	29.83
26 05 36 00-2392 EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	610.04	46.93
26 05 36 00-2393 EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	710.56	59.80
26 05 36 00-2394 EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover.....	776.93	65.68
26 05 36 00-2395 Reducers (26 05 36 00-2266)		
26 05 36 00-2396 EA 9"-6" Reducer, Aluminum Cable Tray Covers.....	72.54	10.26
26 05 36 00-2397 EA 12"-6" Reducer, Aluminum Cable Tray Covers.....	77.95	12.17
26 05 36 00-2398 EA 12"-9" Reducer, Aluminum Cable Tray Covers.....	77.95	12.17
26 05 36 00-2399 EA 18"-6" Reducer, Aluminum Cable Tray Covers.....	88.22	14.91
26 05 36 00-2400 EA 18"-12" Reducer, Aluminum Cable Tray Covers.....	88.22	14.91
26 05 36 00-2401 EA 24"-12" Reducer, Aluminum Cable Tray Covers.....	97.50	16.42
26 05 36 00-2402 EA 24"-18" Reducer, Aluminum Cable Tray Covers.....	106.50	16.42
26 05 36 00-2403 EA 30"-12" Reducer, Aluminum Cable Tray Covers.....	112.75	18.75
26 05 36 00-2404 EA 30"-18" Reducer, Aluminum Cable Tray Covers.....	116.12	18.75
26 05 36 00-2405 EA 30"-24" Reducer, Aluminum Cable Tray Covers.....	118.44	18.75
26 05 36 00-2406 EA 36"-12" Reducer, Aluminum Cable Tray Covers.....	124.64	20.52
26 05 36 00-2407 EA 36"-18" Reducer, Aluminum Cable Tray Covers.....	126.91	20.52
26 05 36 00-2408 EA 36"-24" Reducer, Aluminum Cable Tray Covers.....	128.04	20.52
26 05 36 00-2409 EA 36"-30" Reducer, Aluminum Cable Tray Covers.....	129.17	20.52
26 05 36 00-2410 Galvanized Steel Dividers (26 05 36 00-2121)		
26 05 36 00-2411 Straight Dividers (26 05 36 00-2410)		
26 05 36 00-2412 LF 3" Deep Galvanized Steel Divider Strip, Straight.....	9.84	3.29
26 05 36 00-2413 LF 4" Deep Galvanized Steel Divider Strip, Straight.....	11.43	3.56
26 05 36 00-2414 LF 6" Deep Galvanized Steel Divider Strip, Straight.....	13.91	4.11
26 05 36 00-2415 3" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2416 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray.....	60.57	23.54
26 05 36 00-2417 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray.....	67.41	24.36
26 05 36 00-2418 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray.....	70.72	25.31
26 05 36 00-2419 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray.....	79.51	26.27
26 05 36 00-2420 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray.....	76.34	26.27
26 05 36 00-2421 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray.....	82.08	27.36
26 05 36 00-2422 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray.....	93.65	28.60
26 05 36 00-2423 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray.....	112.52	29.83
26 05 36 00-2424 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable.....	93.47	29.83
26 05 36 00-2425 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray.....	102.94	31.33
26 05 36 00-2426 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray.....	114.27	32.83
26 05 36 00-2427 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray.....	140.16	34.62
26 05 36 00-2428 4" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2429 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray.....	67.81	24.36
26 05 36 00-2430 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray.....	73.89	25.31
26 05 36 00-2431 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray.....	79.51	26.27
26 05 36 00-2432 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray.....	89.22	27.36
26 05 36 00-2433 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray.....	89.22	27.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2434 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Steel Cable Tray	102.39	28.60
26 05 36 00-2435 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Steel Cable Tray	111.73	29.83
26 05 36 00-2436 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Steel Cable Tray	134.69	31.33
26 05 36 00-2437 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Steel Cable Tray	98.42	28.60
26 05 36 00-2438 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Steel Cable Tray	107.76	29.83
26 05 36 00-2439 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Steel Cable Tray	125.16	31.33
26 05 36 00-2440 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Steel Cable Tray	153.96	32.83
26 05 36 00-2441 6" Deep Vertical Dividers (26 05 36 00-2410)		
26 05 36 00-2442 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Steel Cable Tray	75.33	27.36
26 05 36 00-2443 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Steel Cable Tray	80.95	28.60
26 05 36 00-2444 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Steel Cable Tray	87.92	29.83
26 05 36 00-2445 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Steel Cable Tray	99.76	31.33
26 05 36 00-2446 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Steel Cable Tray	91.27	28.60
26 05 36 00-2447 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Steel Cable Tray	104.59	29.83
26 05 36 00-2448 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Steel Cable Tray	114.84	31.33
26 05 36 00-2449 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Steel Cable Tray	137.29	32.83
26 05 36 00-2450 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Steel Cable Tray	100.62	29.83
26 05 36 00-2451 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Steel Cable Tray	114.84	31.33
26 05 36 00-2452 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Steel Cable Tray	137.29	32.83
26 05 36 00-2453 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Steel Cable Tray	163.98	34.62
26 05 36 00-2454 Horizontal Dividers (26 05 36 00-2410)		
26 05 36 00-2455 EA 3" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	63.67	19.84
26 05 36 00-2456 EA 4" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	70.67	21.89
26 05 36 00-2457 EA 6" Deep Horizontal Fitting Divider Strip, Steel Cable Tray	84.16	24.36
26 05 36 00-2458 Aluminum Dividers (26 05 36 00-2121)		
26 05 36 00-2459 Straight Dividers (26 05 36 00-2458)		
26 05 36 00-2460 LF 3" Deep Aluminum Divider Strip, Straight	11.42	3.15
26 05 36 00-2461 LF 4" Deep Aluminum Divider Strip, Straight	13.44	3.42
26 05 36 00-2462 LF 6" Deep Aluminum Divider Strip, Straight	16.50	3.83
26 05 36 00-2463 3" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2464 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	62.55	22.71
26 05 36 00-2465 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	68.37	23.54
26 05 36 00-2466 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	74.71	24.36
26 05 36 00-2467 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	85.44	25.31
26 05 36 00-2468 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	83.27	25.31
26 05 36 00-2469 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	91.42	26.27
26 05 36 00-2470 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	105.10	27.36
26 05 36 00-2471 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	128.80	28.60
26 05 36 00-2472 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	110.39	28.60
26 05 36 00-2473 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	131.00	29.83
26 05 36 00-2474 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	157.13	31.33
26 05 36 00-2475 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	192.20	32.83
26 05 36 00-2476 4" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2477 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	74.10	23.54
26 05 36 00-2478 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	81.09	24.36
26 05 36 00-2479 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	88.69	25.31
26 05 36 00-2480 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	99.00	26.27
26 05 36 00-2481 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	97.91	26.27
26 05 36 00-2482 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	112.67	27.36
26 05 36 00-2483 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	126.63	28.60
26 05 36 00-2484 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	158.06	29.83
26 05 36 00-2485 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	129.99	27.36
26 05 36 00-2486 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	155.86	28.60
26 05 36 00-2487 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	181.87	29.83
26 05 36 00-2488 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray	218.83	31.33
26 05 36 00-2489 6" Deep Vertical Dividers (26 05 36 00-2458)		
26 05 36 00-2490 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray	82.11	26.27
26 05 36 00-2491 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray	91.02	27.36
26 05 36 00-2492 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray	95.24	28.60
26 05 36 00-2493 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray	106.10	29.83
26 05 36 00-2494 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray	101.85	27.36
26 05 36 00-2495 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray	124.47	28.60
26 05 36 00-2496 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray	134.24	29.83
26 05 36 00-2497 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray	166.87	31.33
26 05 36 00-2498 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray	133.13	28.60
26 05 36 00-2499 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray	164.55	29.83
26 05 36 00-2500 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray	187.44	31.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2501 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	217.10	32.83
26 05 36 00-2502 Horizontal Dividers <small>(26 05 36 00-2458)</small>		
26 05 36 00-2503 EA 3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	70.73	18.75
26 05 36 00-2504 EA 4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	77.51	20.52
26 05 36 00-2505 EA 6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray	95.13	22.71
26 05 36 00-2506 Wall Brackets <small>(26 05 36 00-0001)</small>		
26 05 36 00-2507 Wall Brackets <small>(26 05 36 00-2506)</small>		
26 05 36 00-2508 EA 6" Wide Tray Wall Bracket	89.36	27.36
26 05 36 00-2509 EA 9" Wide Tray Wall Bracket	92.66	28.60
26 05 36 00-2510 EA 12" Wide Tray Wall Bracket	101.12	29.83
26 05 36 00-2511 EA 18" Wide Tray Wall Bracket	107.19	31.33
26 05 36 00-2512 EA 24" Wide Tray Wall Bracket	116.05	32.83
26 05 36 00-2513 EA 30" Wide Tray Wall Bracket	136.43	34.62
26 05 36 00-2514 EA 36" Wide Tray Wall Bracket	161.69	36.94
26 05 36 00-2515 Fiberglass Cable Tray <small>(26 05 36 00-0001)</small>		
26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray <small>(26 05 36 00-2515)</small>		
Note: Excludes hangers and support system.		
26 05 36 00-2517 Straight Tray Sections <small>(26 05 36 00-2516)</small>		
26 05 36 00-2518 LF 6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	11.31	3.70
<i>For 9" Rung Spacing, Add</i>		
0.20		
<i>For 6" Rung Spacing, Add</i>		
0.88		
<i>For 4" Rung Spacing, Add</i>		
1.61		
<i>For 18" Rung Spacing, Deduct</i>		
-0.15		
<i>For Solid Bottom, Add</i>		
2.57		
<i>For Vented Trough Bottom, Add</i>		
3.02		
26 05 36 00-2519 LF 9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	12.87	4.52
<i>For 9" Rung Spacing, Add</i>		
0.21		
<i>For 6" Rung Spacing, Add</i>		
0.90		
<i>For 4" Rung Spacing, Add</i>		
1.66		
<i>For 18" Rung Spacing, Deduct</i>		
-0.15		
<i>For Solid Bottom, Add</i>		
2.84		
<i>For Vented Trough Bottom, Add</i>		
3.27		
26 05 36 00-2520 LF 12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	14.41	5.47
<i>For 9" Rung Spacing, Add</i>		
0.22		
<i>For 6" Rung Spacing, Add</i>		
0.93		
<i>For 4" Rung Spacing, Add</i>		
1.71		
<i>For 18" Rung Spacing, Deduct</i>		
-0.16		
<i>For Solid Bottom, Add</i>		
3.09		
<i>For Vented Trough Bottom, Add</i>		
3.51		
26 05 36 00-2521 LF 18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	17.61	7.25
<i>For 9" Rung Spacing, Add</i>		
0.23		
<i>For 6" Rung Spacing, Add</i>		
1.00		
<i>For 4" Rung Spacing, Add</i>		
1.83		
<i>For 18" Rung Spacing, Deduct</i>		
-0.17		
<i>For Solid Bottom, Add</i>		
3.64		
<i>For Vented Trough Bottom, Add</i>		
4.03		
26 05 36 00-2522 LF 24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	20.80	9.17
<i>For 9" Rung Spacing, Add</i>		
0.25		
<i>For 6" Rung Spacing, Add</i>		
1.07		
<i>For 4" Rung Spacing, Add</i>		
1.96		
<i>For 18" Rung Spacing, Deduct</i>		
-0.18		
<i>For Solid Bottom, Add</i>		
4.19		
<i>For Vented Trough Bottom, Add</i>		
4.56		
26 05 36 00-2523 LF 30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	22.77	9.99
<i>For 9" Rung Spacing, Add</i>		
0.27		
<i>For 6" Rung Spacing, Add</i>		
1.16		
<i>For 4" Rung Spacing, Add</i>		
2.12		
<i>For 18" Rung Spacing, Deduct</i>		
-0.19		
<i>For Solid Bottom, Add</i>		
4.57		
<i>For Vented Trough Bottom, Add</i>		
4.97		
26 05 36 00-2524 LF 36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing	24.77	10.94
<i>For 9" Rung Spacing, Add</i>		
0.29		
<i>For 6" Rung Spacing, Add</i>		
1.25		
<i>For 4" Rung Spacing, Add</i>		
2.30		
<i>For 18" Rung Spacing, Deduct</i>		
-0.21		
<i>For Solid Bottom, Add</i>		
4.97		
<i>For Vented Trough Bottom, Add</i>		
5.39		
26 05 36 00-2525 90 Degree Horizontal Elbows <small>(26 05 36 00-2516)</small>		

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2526	EA		6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	64.66	27.36
			For 9" Rung Spacing, Add	0.83	
			For 6" Rung Spacing, Add	3.54	
			For 4" Rung Spacing, Add	6.49	
			For 18" Rung Spacing, Deduct	-0.59	
			For Solid Bottom, Add	13.24	
			For Vented Trough Bottom, Add	14.58	
			For 60 Degree Bend, Deduct	-11.90	
			For 45 Degree Bend, Deduct	-16.55	
			For 30 Degree Bend, Deduct	-21.20	
26 05 36 00-2527	EA		9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	72.86	31.88
			For 9" Rung Spacing, Add	0.87	
			For 6" Rung Spacing, Add	3.75	
			For 4" Rung Spacing, Add	6.87	
			For 18" Rung Spacing, Deduct	-0.62	
			For Solid Bottom, Add	14.67	
			For Vented Trough Bottom, Add	15.97	
			For 60 Degree Bend, Deduct	-13.03	
			For 45 Degree Bend, Deduct	-18.17	
			For 30 Degree Bend, Deduct	-23.31	
26 05 36 00-2528	EA		12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	86.53	40.09
			For 9" Rung Spacing, Add	0.92	
			For 6" Rung Spacing, Add	3.95	
			For 4" Rung Spacing, Add	7.24	
			For 18" Rung Spacing, Deduct	-0.66	
			For Solid Bottom, Add	16.93	
			For Vented Trough Bottom, Add	18.05	
			For 60 Degree Bend, Deduct	-14.71	
			For 45 Degree Bend, Deduct	-20.61	
			For 30 Degree Bend, Deduct	-26.52	
26 05 36 00-2529	EA		18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	102.75	48.43
			For 9" Rung Spacing, Add	1.06	
			For 6" Rung Spacing, Add	4.53	
			For 4" Rung Spacing, Add	8.31	
			For 18" Rung Spacing, Deduct	-0.76	
			For Solid Bottom, Add	19.95	
			For Vented Trough Bottom, Add	21.16	
			For 60 Degree Bend, Deduct	-17.23	
			For 45 Degree Bend, Deduct	-24.18	
			For 30 Degree Bend, Deduct	-31.13	
26 05 36 00-2530	EA		24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	116.70	55.69
			For 9" Rung Spacing, Add	1.16	
			For 6" Rung Spacing, Add	4.99	
			For 4" Rung Spacing, Add	9.14	
			For 18" Rung Spacing, Deduct	-0.83	
			For Solid Bottom, Add	22.49	
			For Vented Trough Bottom, Add	23.73	
			For 60 Degree Bend, Deduct	-19.32	
			For 45 Degree Bend, Deduct	-27.14	
			For 30 Degree Bend, Deduct	-34.97	
26 05 36 00-2531	EA		30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	127.13	59.39
			For 9" Rung Spacing, Add	1.34	
			For 6" Rung Spacing, Add	5.73	
			For 4" Rung Spacing, Add	10.51	
			For 18" Rung Spacing, Deduct	-0.96	
			For Solid Bottom, Add	24.80	
			For Vented Trough Bottom, Add	26.40	
			For 60 Degree Bend, Deduct	-21.50	
			For 45 Degree Bend, Deduct	-30.15	
			For 30 Degree Bend, Deduct	-38.80	
26 05 36 00-2532	EA		36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray	139.66	63.90
			For 9" Rung Spacing, Add	1.54	
			For 6" Rung Spacing, Add	6.58	
			For 4" Rung Spacing, Add	12.07	
			For 18" Rung Spacing, Deduct	-1.10	
			For Solid Bottom, Add	27.53	
			For Vented Trough Bottom, Add	29.52	
			For 60 Degree Bend, Deduct	-24.06	
			For 45 Degree Bend, Deduct	-33.67	
			For 30 Degree Bend, Deduct	-43.29	
26 05 36 00-2533			Inside Or Outside Vertical Risers (26 05 36 00-2516)		
26 05 36 00-2534	EA		6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray.....	89.33	27.36
			For 9" Rung Spacing, Add	1.69	
			For 6" Rung Spacing, Add	7.24	
			For 4" Rung Spacing, Add	13.28	
			For 18" Rung Spacing, Deduct	-1.21	
			For Solid Bottom, Add	20.64	
			For Vented Trough Bottom, Add	24.44	
			For 60 Degree Bend, Deduct	-20.04	
			For 45 Degree Bend, Deduct	-27.40	
			For 30 Degree Bend, Deduct	-34.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2535 EA 9" Vertical Inside Or Outside Riser 90, Fiberglass	96.85	31.88
<i>For 9" Rung Spacing, Add</i>	1.71	
<i>For 6" Rung Spacing, Add</i>	7.34	
<i>For 4" Rung Spacing, Add</i>	13.46	
<i>For 18" Rung Spacing, Deduct</i>	-1.22	
<i>For Solid Bottom, Add</i>	21.87	
<i>For Vented Trough Bottom, Add</i>	25.57	
<i>For 60 Degree Bend, Deduct</i>	-20.95	
<i>For 45 Degree Bend, Deduct</i>	-28.73	
<i>For 30 Degree Bend, Deduct</i>	-36.51	
26 05 36 00-2536 EA 12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	109.84	40.09
<i>For 9" Rung Spacing, Add</i>	1.74	
<i>For 6" Rung Spacing, Add</i>	7.44	
<i>For 4" Rung Spacing, Add</i>	13.65	
<i>For 18" Rung Spacing, Deduct</i>	-1.24	
<i>For Solid Bottom, Add</i>	23.92	
<i>For Vented Trough Bottom, Add</i>	27.38	
<i>For 60 Degree Bend, Deduct</i>	-22.40	
<i>For 45 Degree Bend, Deduct</i>	-30.87	
<i>For 30 Degree Bend, Deduct</i>	-39.34	
26 05 36 00-2537 EA 18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	123.66	48.43
<i>For 9" Rung Spacing, Add</i>	1.79	
<i>For 6" Rung Spacing, Add</i>	7.67	
<i>For 4" Rung Spacing, Add</i>	14.06	
<i>For 18" Rung Spacing, Deduct</i>	-1.28	
<i>For Solid Bottom, Add</i>	26.22	
<i>For Vented Trough Bottom, Add</i>	29.52	
<i>For 60 Degree Bend, Deduct</i>	-24.13	
<i>For 45 Degree Bend, Deduct</i>	-33.38	
<i>For 30 Degree Bend, Deduct</i>	-42.63	
26 05 36 00-2538 EA 24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	135.95	55.69
<i>For 9" Rung Spacing, Add</i>	1.84	
<i>For 6" Rung Spacing, Add</i>	7.87	
<i>For 4" Rung Spacing, Add</i>	14.43	
<i>For 18" Rung Spacing, Deduct</i>	-1.31	
<i>For Solid Bottom, Add</i>	28.27	
<i>For Vented Trough Bottom, Add</i>	31.43	
<i>For 60 Degree Bend, Deduct</i>	-25.67	
<i>For 45 Degree Bend, Deduct</i>	-35.61	
<i>For 30 Degree Bend, Deduct</i>	-45.56	
26 05 36 00-2539 EA 30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	142.77	59.39
<i>For 9" Rung Spacing, Add</i>	1.88	
<i>For 6" Rung Spacing, Add</i>	8.08	
<i>For 4" Rung Spacing, Add</i>	14.81	
<i>For 18" Rung Spacing, Deduct</i>	-1.35	
<i>For Solid Bottom, Add</i>	29.49	
<i>For Vented Trough Bottom, Add</i>	32.65	
<i>For 60 Degree Bend, Deduct</i>	-26.66	
<i>For 45 Degree Bend, Deduct</i>	-37.03	
<i>For 30 Degree Bend, Deduct</i>	-47.40	
26 05 36 00-2540 EA 36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray	155.26	63.90
<i>For 9" Rung Spacing, Add</i>	2.08	
<i>For 6" Rung Spacing, Add</i>	8.92	
<i>For 4" Rung Spacing, Add</i>	16.36	
<i>For 18" Rung Spacing, Deduct</i>	-1.49	
<i>For Solid Bottom, Add</i>	32.21	
<i>For Vented Trough Bottom, Add</i>	35.76	
<i>For 60 Degree Bend, Deduct</i>	-29.21	
<i>For 45 Degree Bend, Deduct</i>	-40.54	
<i>For 30 Degree Bend, Deduct</i>	-51.87	
26 05 36 00-2541 Horizontal Tees <small>(26 05 36 00-2516)</small>		
26 05 36 00-2542 EA 6" Horizontal Tee, Fiberglass Cable Tray	144.28	68.41
<i>For 9" Rung Spacing, Add</i>	1.46	
<i>For 6" Rung Spacing, Add</i>	6.25	
<i>For 4" Rung Spacing, Add</i>	11.46	
<i>For 18" Rung Spacing, Deduct</i>	-1.04	
<i>For Solid Bottom, Add</i>	27.89	
<i>For Vented Trough Bottom, Add</i>	29.49	
26 05 36 00-2543 EA 9" Horizontal Tee, Fiberglass Cable Tray	163.73	80.32
<i>For 9" Rung Spacing, Add</i>	1.52	
<i>For 6" Rung Spacing, Add</i>	6.50	
<i>For 4" Rung Spacing, Add</i>	11.91	
<i>For 18" Rung Spacing, Deduct</i>	-1.08	
<i>For Solid Bottom, Add</i>	31.06	
<i>For Vented Trough Bottom, Add</i>	32.38	
26 05 36 00-2544 EA 12" Horizontal Tee, Fiberglass Cable Tray	188.64	95.78
<i>For 9" Rung Spacing, Add</i>	1.57	
<i>For 6" Rung Spacing, Add</i>	6.75	
<i>For 4" Rung Spacing, Add</i>	12.37	
<i>For 18" Rung Spacing, Deduct</i>	-1.12	
<i>For Solid Bottom, Add</i>	35.04	
<i>For Vented Trough Bottom, Add</i>	35.95	

26 Electrical
26 05 Common Work Results for Electrical
26 05 36 Cable Trays for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2545 EA 18" Horizontal Tee, Fiberglass Cable Tray	210.94	107.68
For 9" Rung Spacing, Add	1.73	
For 6" Rung Spacing, Add	7.42	
For 4" Rung Spacing, Add	13.61	
For 18" Rung Spacing, Deduct	-1.24	
For Solid Bottom, Add	39.06	
For Vented Trough Bottom, Add	39.97	
26 05 36 00-2546 EA 24" Horizontal Tee, Fiberglass Cable Tray	221.39	112.20
For 9" Rung Spacing, Add	1.86	
For 6" Rung Spacing, Add	7.96	
For 4" Rung Spacing, Add	14.60	
For 18" Rung Spacing, Deduct	-1.33	
For Solid Bottom, Add	41.17	
For Vented Trough Bottom, Add	42.27	
26 05 36 00-2547 EA 30" Horizontal Tee, Fiberglass Cable Tray	236.53	118.63
For 9" Rung Spacing, Add	2.05	
For 6" Rung Spacing, Add	8.80	
For 4" Rung Spacing, Add	16.13	
For 18" Rung Spacing, Deduct	-1.47	
For Solid Bottom, Add	44.28	
For Vented Trough Bottom, Add	45.70	
26 05 36 00-2548 EA 36" Horizontal Tee, Fiberglass Cable Tray	256.36	127.80
For 9" Rung Spacing, Add	2.27	
For 6" Rung Spacing, Add	9.72	
For 4" Rung Spacing, Add	17.82	
For 18" Rung Spacing, Deduct	-1.62	
For Solid Bottom, Add	48.17	
For Vented Trough Bottom, Add	49.87	
26 05 36 00-2549 Horizontal Crosses (26 05 36 00-2516)		
26 05 36 00-2550 EA 6" Horizontal Cross, Fiberglass Cable Tray	231.26	118.63
For 9" Rung Spacing, Add	1.87	
For 6" Rung Spacing, Add	8.01	
For 4" Rung Spacing, Add	14.68	
For 18" Rung Spacing, Deduct	-1.33	
For Solid Bottom, Add	42.70	
For Vented Trough Bottom, Add	43.59	
26 05 36 00-2551 EA 9" Horizontal Cross, Fiberglass Cable Tray	246.53	127.80
For 9" Rung Spacing, Add	1.92	
For 6" Rung Spacing, Add	8.25	
For 4" Rung Spacing, Add	15.12	
For 18" Rung Spacing, Deduct	-1.37	
For Solid Bottom, Add	45.23	
For Vented Trough Bottom, Add	45.94	
26 05 36 00-2552 EA 12" Horizontal Cross, Fiberglass Cable Tray	261.80	136.97
For 9" Rung Spacing, Add	1.98	
For 6" Rung Spacing, Add	8.48	
For 4" Rung Spacing, Add	15.55	
For 18" Rung Spacing, Deduct	-1.41	
For Solid Bottom, Add	47.75	
For Vented Trough Bottom, Add	48.28	
26 05 36 00-2553 EA 18" Horizontal Cross, Fiberglass Cable Tray	279.98	146.00
For 9" Rung Spacing, Add	2.14	
For 6" Rung Spacing, Add	9.16	
For 4" Rung Spacing, Add	16.79	
For 18" Rung Spacing, Deduct	-1.53	
For Solid Bottom, Add	51.16	
For Vented Trough Bottom, Add	51.79	
26 05 36 00-2554 EA 24" Horizontal Cross, Fiberglass Cable Tray	297.13	155.16
For 9" Rung Spacing, Add	2.26	
For 6" Rung Spacing, Add	9.68	
For 4" Rung Spacing, Add	17.74	
For 18" Rung Spacing, Deduct	-1.61	
For Solid Bottom, Add	54.25	
For Vented Trough Bottom, Add	54.88	
26 05 36 00-2555 EA 30" Horizontal Cross, Fiberglass Cable Tray	316.52	164.33
For 9" Rung Spacing, Add	2.46	
For 6" Rung Spacing, Add	10.54	
For 4" Rung Spacing, Add	19.32	
For 18" Rung Spacing, Deduct	-1.76	
For Solid Bottom, Add	58.01	
For Vented Trough Bottom, Add	58.88	
26 05 36 00-2556 EA 36" Horizontal Cross, Fiberglass Cable Tray	341.68	176.09
For 9" Rung Spacing, Add	2.72	
For 6" Rung Spacing, Add	11.64	
For 4" Rung Spacing, Add	21.34	
For 18" Rung Spacing, Deduct	-1.94	
For Solid Bottom, Add	62.89	
For Vented Trough Bottom, Add	64.05	
26 05 36 00-2557 Horizontal Wyes (26 05 36 00-2516)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2558 EA 6" Horizontal Wye, Fiberglass Cable Tray	140.07	68.41
For 9" Rung Spacing, Add	1.31	
For 6" Rung Spacing, Add	5.62	
For 4" Rung Spacing, Add	10.30	
For 18" Rung Spacing, Deduct	-0.94	
For Solid Bottom, Add	26.63	
For Vented Trough Bottom, Add	27.81	
26 05 36 00-2559 EA 9" Horizontal Wye, Fiberglass Cable Tray	148.42	73.06
For 9" Rung Spacing, Add	1.36	
For 6" Rung Spacing, Add	5.84	
For 4" Rung Spacing, Add	10.71	
For 18" Rung Spacing, Deduct	-0.97	
For Solid Bottom, Add	28.11	
For Vented Trough Bottom, Add	29.27	
26 05 36 00-2560 EA 12" Horizontal Wye, Fiberglass Cable Tray	184.13	95.78
For 9" Rung Spacing, Add	1.42	
For 6" Rung Spacing, Add	6.07	
For 4" Rung Spacing, Add	11.13	
For 18" Rung Spacing, Deduct	-1.01	
For Solid Bottom, Add	33.69	
For Vented Trough Bottom, Add	34.14	
26 05 36 00-2561 EA 18" Horizontal Wye, Fiberglass Cable Tray	205.98	107.68
For 9" Rung Spacing, Add	1.56	
For 6" Rung Spacing, Add	6.68	
For 4" Rung Spacing, Add	12.24	
For 18" Rung Spacing, Deduct	-1.11	
For Solid Bottom, Add	37.58	
For Vented Trough Bottom, Add	37.99	
26 05 36 00-2562 EA 24" Horizontal Wye, Fiberglass Cable Tray	215.98	112.20
For 9" Rung Spacing, Add	1.67	
For 6" Rung Spacing, Add	7.15	
For 4" Rung Spacing, Add	13.11	
For 18" Rung Spacing, Deduct	-1.19	
For Solid Bottom, Add	39.55	
For Vented Trough Bottom, Add	40.11	
26 05 36 00-2563 EA 30" Horizontal Wye, Fiberglass Cable Tray	230.66	118.63
For 9" Rung Spacing, Add	1.85	
For 6" Rung Spacing, Add	7.92	
For 4" Rung Spacing, Add	14.52	
For 18" Rung Spacing, Deduct	-1.32	
For Solid Bottom, Add	42.52	
For Vented Trough Bottom, Add	43.35	
26 05 36 00-2564 EA 36" Horizontal Wye, Fiberglass Cable Tray	249.88	127.80
For 9" Rung Spacing, Add	2.04	
For 6" Rung Spacing, Add	8.75	
For 4" Rung Spacing, Add	16.04	
For 18" Rung Spacing, Deduct	-1.46	
For Solid Bottom, Add	46.23	
For Vented Trough Bottom, Add	47.27	
26 05 36 00-2565 Straight Reducers (26 05 36 00-2516)		
26 05 36 00-2566 EA 9"-6" Reducer, Fiberglass Cable Tray	62.26	27.36
For 9" Rung Spacing, Add	0.74	
For 6" Rung Spacing, Add	3.18	
For 4" Rung Spacing, Add	5.83	
For 18" Rung Spacing, Deduct	-0.53	
For Solid Bottom, Add	12.52	
For Vented Trough Bottom, Add	13.62	
26 05 36 00-2567 EA 12"-9" Reducer, Fiberglass Cable Tray.....	69.40	31.88
For 9" Rung Spacing, Add	0.75	
For 6" Rung Spacing, Add	3.23	
For 4" Rung Spacing, Add	5.92	
For 18" Rung Spacing, Deduct	-0.54	
For Solid Bottom, Add	13.64	
For Vented Trough Bottom, Add	14.59	
26 05 36 00-2568 EA 18"-12" Reducer, Fiberglass Cable Tray.....	76.54	36.53
For 9" Rung Spacing, Add	0.76	
For 6" Rung Spacing, Add	3.27	
For 4" Rung Spacing, Add	6.00	
For 18" Rung Spacing, Deduct	-0.55	
For Solid Bottom, Add	14.75	
For Vented Trough Bottom, Add	15.57	
26 05 36 00-2569 EA 24"-18" Reducer, Fiberglass Cable Tray.....	82.77	40.09
For 9" Rung Spacing, Add	0.79	
For 6" Rung Spacing, Add	3.38	
For 4" Rung Spacing, Add	6.20	
For 18" Rung Spacing, Deduct	-0.56	
For Solid Bottom, Add	15.80	
For Vented Trough Bottom, Add	16.55	

26 Electrical**26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2570 EA 30"-24" Reducer, Fiberglass Cable Tray.....	92.00	43.79
For 9" Rung Spacing, Add	0.92	
For 6" Rung Spacing, Add	3.95	
For 4" Rung Spacing, Add	7.24	
For 18" Rung Spacing, Deduct	-0.66	
For Solid Bottom, Add	17.75	
For Vented Trough Bottom, Add	18.74	
26 05 36 00-2571 EA 36"-30" Reducer, Fiberglass Cable Tray.....	103.09	48.43
For 9" Rung Spacing, Add	1.07	
For 6" Rung Spacing, Add	4.59	
For 4" Rung Spacing, Add	8.41	
For 18" Rung Spacing, Deduct	-0.76	
For Solid Bottom, Add	20.05	
For Vented Trough Bottom, Add	21.29	
26 05 36 00-2572 Vertical Tees (26 05 36 00-2516)		
26 05 36 00-2573 EA 6" Vertical Tee, Fiberglass Cable Tray.....	182.18	68.41
For 9" Rung Spacing, Add	2.78	
For 6" Rung Spacing, Add	11.93	
For 4" Rung Spacing, Add	21.88	
For 18" Rung Spacing, Deduct	-1.99	
For Solid Bottom, Add	39.26	
For Vented Trough Bottom, Add	44.65	
26 05 36 00-2574 EA 9" Vertical Tee, Fiberglass Cable Tray.....	190.00	73.06
For 9" Rung Spacing, Add	2.82	
For 6" Rung Spacing, Add	12.08	
For 4" Rung Spacing, Add	22.15	
For 18" Rung Spacing, Deduct	-2.01	
For Solid Bottom, Add	40.58	
For Vented Trough Bottom, Add	45.90	
26 05 36 00-2575 EA 12" Vertical Tee, Fiberglass Cable Tray.....	225.18	95.78
For 9" Rung Spacing, Add	2.85	
For 6" Rung Spacing, Add	12.23	
For 4" Rung Spacing, Add	22.42	
For 18" Rung Spacing, Deduct	-2.04	
For Solid Bottom, Add	46.01	
For Vented Trough Bottom, Add	50.57	
26 05 36 00-2576 EA 18" Vertical Tee, Fiberglass Cable Tray.....	245.23	107.68
For 9" Rung Spacing, Add	2.93	
For 6" Rung Spacing, Add	12.57	
For 4" Rung Spacing, Add	23.04	
For 18" Rung Spacing, Deduct	-2.09	
For Solid Bottom, Add	49.35	
For Vented Trough Bottom, Add	53.69	
26 05 36 00-2577 EA 24" Vertical Tee, Fiberglass Cable Tray.....	254.18	112.20
For 9" Rung Spacing, Add	3.01	
For 6" Rung Spacing, Add	12.88	
For 4" Rung Spacing, Add	23.62	
For 18" Rung Spacing, Deduct	-2.15	
For Solid Bottom, Add	51.01	
For Vented Trough Bottom, Add	55.39	
26 05 36 00-2578 EA 30" Vertical Tee, Fiberglass Cable Tray.....	265.70	118.63
For 9" Rung Spacing, Add	3.07	
For 6" Rung Spacing, Add	13.17	
For 4" Rung Spacing, Add	24.15	
For 18" Rung Spacing, Deduct	-2.20	
For Solid Bottom, Add	53.03	
For Vented Trough Bottom, Add	57.37	
26 05 36 00-2579 EA 36" Vertical Tee, Fiberglass Cable Tray.....	288.60	127.80
For 9" Rung Spacing, Add	3.40	
For 6" Rung Spacing, Add	14.56	
For 4" Rung Spacing, Add	26.69	
For 18" Rung Spacing, Deduct	-2.43	
For Solid Bottom, Add	57.85	
For Vented Trough Bottom, Add	62.76	

26 05 39 Underfloor Raceways for Electrical Systems (26 05)**26 05 39 00-0001 Underfloor Ducts (26 05 39)****26 05 39 00-0002 Straight Duct Sections 10' Long, 14 Gauge Steel (26 05 39 00-0001)****26 05 39 00-0003 Standard Ducts, 3.8 Square Inches (26 05 39 00-0002)**

26 05 39 00-0004 EA Standard Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 3.8 Square Inches.....	99.90	24.08
26 05 39 00-0005 EA Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches.....	124.48	28.19

26 05 39 00-0006 Large Capacity Ducts, 8.9 Square Inches (26 05 39 00-0002)

26 05 39 00-0007 EA Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches.....	160.61	30.51
26 05 39 00-0008 EA Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches.....	183.22	33.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0009 Junction Boxes <small>(26 05 39 00-0001)</small>		
26 05 39 00-0010 One Level Junction Boxes <small>(26 05 39 00-0009)</small>		
26 05 39 00-0011 EA 1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box.....	245.67	47.89
26 05 39 00-0012 EA 1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box	276.32	51.31
26 05 39 00-0013 EA 1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box	423.43	47.89
Note: Isolate each duct and form a continuous raceway through the box in both directions.		
26 05 39 00-0014 EA 1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box	299.51	51.31
26 05 39 00-0015 EA 1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box	466.90	67.45
26 05 39 00-0016 EA 1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct	642.06	73.34
26 05 39 00-0017 Two Level Junction Boxes <small>(26 05 39 00-0009)</small>		
26 05 39 00-0018 EA 2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level.....	939.71	48.43
Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway.		
26 05 39 00-0019 EA 2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts.....	1,078.55	51.31
26 05 39 00-0020 Elbow Fittings <small>(26 05 39 00-0001)</small>		
26 05 39 00-0021 90 Degree Horizontal Elbow <small>(26 05 39 00-0020)</small>		
26 05 39 00-0022 EA Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree	116.48	17.65
26 05 39 00-0023 EA Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree	119.66	17.65
26 05 39 00-0024 90 Degree Vertical Elbow <small>(26 05 39 00-0020)</small>		
26 05 39 00-0025 EA Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree	70.10	17.65
26 05 39 00-0026 EA Underfloor Large Duct Vertical Elbow Fitting, 90 Degree	71.38	17.65
26 05 39 00-0027 Offset Elbow <small>(26 05 39 00-0020)</small>		
Note: Two elbows required for crossover or crossunder.		
26 05 39 00-0028 EA Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under.....	70.10	20.52
26 05 39 00-0029 EA Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under	71.38	20.52
26 05 39 00-0030 Couplings <small>(26 05 39 00-0001)</small>		
26 05 39 00-0031 Sleeve Couplings <small>(26 05 39 00-0030)</small>		
26 05 39 00-0032 EA Underfloor Standard Duct Sleeve Coupling	49.96	27.36
26 05 39 00-0033 EA Underfloor Large Duct Sleeve Coupling	79.31	27.36
26 05 39 00-0034 Expansion Couplings <small>(26 05 39 00-0030)</small>		
26 05 39 00-0035 EA Underfloor Standard Duct Expansion Coupling	102.70	27.36
26 05 39 00-0036 EA Underfloor Large Duct Expansion Coupling.....	104.29	28.87
26 05 39 00-0037 Reducing Couplings <small>(26 05 39 00-0030)</small>		
26 05 39 00-0038 EA Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling	83.69	4.11
26 05 39 00-0039 Duct Supports <small>(26 05 39 00-0001)</small>		
26 05 39 00-0040 Combination Support And Coupling <small>(26 05 39 00-0039)</small>		
Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0041 EA 1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet.....	115.48	57.46
26 05 39 00-0042 EA 2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	129.48	57.46
26 05 39 00-0043 EA 3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	143.57	57.46
26 05 39 00-0044 EA 1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	129.48	64.31
26 05 39 00-0045 EA 2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet	157.99	64.31
26 05 39 00-0046 EA 1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	143.57	68.41
26 05 39 00-0047 EA 2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	143.57	68.41
26 05 39 00-0048 EA 1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet	157.99	68.41
26 05 39 00-0049 Duct Support Only <small>(26 05 39 00-0039)</small>		
Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0050 EA 1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	102.81	50.63
26 05 39 00-0051 EA 2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	120.71	50.63
26 05 39 00-0052 EA 3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	139.57	50.63
26 05 39 00-0053 Underfloor Duct Accessories <small>(26 05 39 00-0001)</small>		
26 05 39 00-0054 Plugs For Unused Junction Box Openings And Duct Ends <small>(26 05 39 00-0053)</small>		
26 05 39 00-0055 EA Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends	27.59	4.11
26 05 39 00-0056 EA Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends	28.31	4.11

26 Electrical**26 05 Common Work Results for Electrical****26 05 39 Underfloor Raceways for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0057			Conduit Adapters <small>(26 05 39 00-0053)</small>		
26 05 39 00-0058	EA		One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	34.59	6.84
26 05 39 00-0059	EA		Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter	36.96	6.84
26 05 39 00-0060	EA		One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter.....	36.01	6.84
26 05 39 00-0061	EA		Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter	37.44	6.84
26 05 39 00-0062			Holdings And Caps <small>(26 05 39 00-0053)</small>		
26 05 39 00-0063	EA		Tile Holder, Underfloor Duct Accessories	235.66	57.46
26 05 39 00-0064	EA		Terrazzo Holder, Underfloor Duct Accessories.....	419.35	57.46
26 05 39 00-0065	EA		Closing Caps For Inserts, Underfloor Duct Accessories	3.20	1.37
26 05 39 00-0066			Underfloor Dust Pans <small>(26 05 39 00-0001)</small>		
26 05 39 00-0067	EA		Underfloor Dust Carpet Pan.....	91.93	7.50
26 05 43			Underground Ducts and Raceways for Electrical Systems <small>(26 05)</small>		
			Note: Includes warning tape.		
26 05 43 00-0001			Duct Bank <small>(26 05 43)</small>		
			Note: Installation of single or multiple configuration underground utility raceways to have 3" concrete leveling base and encased in concrete envelope. Based on 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations.		
26 05 43 00-0002			Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank <small>(26 05 43 00-0001)</small>		
			Note: Includes appropriate spacers and fittings.		
26 05 43 00-0003	LF		2 At 2", Rigid Galvanized Conduit Duct Bank	39.41	
26 05 43 00-0004	LF		4 At 2", Rigid Galvanized Conduit Duct Bank	78.85	
26 05 43 00-0005	LF		2 At 3", Rigid Galvanized Conduit Duct Bank	81.30	
26 05 43 00-0006	LF		4 At 3", Rigid Galvanized Conduit Duct Bank	163.09	
26 05 43 00-0007	LF		2 At 4", Rigid Galvanized Conduit Duct Bank	119.70	
26 05 43 00-0008	LF		4 At 4", Rigid Galvanized Conduit Duct Bank	240.66	
26 05 43 00-0009	LF		6 At 4", Rigid Galvanized Conduit Duct Bank	361.70	
26 05 43 00-0010	LF		2 At 5", Rigid Galvanized Conduit Duct Bank	225.07	
26 05 43 00-0011	LF		4 At 5", Rigid Galvanized Conduit Duct Bank	448.88	
26 05 43 00-0012	LF		6 At 5", Rigid Galvanized Conduit Duct Bank	690.60	
26 05 43 00-0013	LF		2 At 6", Rigid Galvanized Conduit Duct Bank	319.82	
26 05 43 00-0014	LF		4 At 6", Rigid Galvanized Conduit Duct Bank	641.97	
26 05 43 00-0015	LF		6 At 6", Rigid Galvanized Conduit Duct Bank	955.40	
26 05 43 00-0016			Polyvinyl Chloride (PVC), Type EB Duct Bank System <small>(26 05 43 00-0001)</small>		
			Note: Includes appropriate spacers and fittings.		
26 05 43 00-0017	LF		1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	9.10	
26 05 43 00-0018	LF		2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	19.96	
26 05 43 00-0019	LF		4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	38.36	
26 05 43 00-0020	LF		1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	12.08	
26 05 43 00-0021	LF		2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	24.12	
26 05 43 00-0022	LF		4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	48.97	
26 05 43 00-0023	LF		1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	16.25	
26 05 43 00-0024	LF		2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	32.52	
26 05 43 00-0025	LF		4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	65.11	
26 05 43 00-0026	LF		6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	97.63	
26 05 43 00-0027	LF		1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	20.69	
26 05 43 00-0028	LF		2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	41.35	
26 05 43 00-0029	LF		4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	80.15	
26 05 43 00-0030	LF		6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	113.97	
26 05 43 00-0031	LF		1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	36.38	
26 05 43 00-0032	LF		2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	56.15	
26 05 43 00-0033	LF		4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	112.56	
26 05 43 00-0034	LF		6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	181.34	
26 05 43 00-0035			Polyvinyl Chloride (PVC), Type DB Duct Bank System <small>(26 05 43 00-0001)</small>		
			Note: Includes appropriate spacers and fittings.		
26 05 43 00-0036	LF		1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	10.13	
26 05 43 00-0037	LF		2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	22.08	
26 05 43 00-0038	LF		4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	42.32	
26 05 43 00-0039	LF		1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	12.58	
26 05 43 00-0040	LF		2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	25.12	
26 05 43 00-0041	LF		4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	50.08	
26 05 43 00-0042	LF		1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	16.69	
26 05 43 00-0043	LF		2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	33.42	
26 05 43 00-0044	LF		4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	66.90	
26 05 43 00-0045	LF		6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	100.32	
26 05 43 00-0046	LF		1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	21.37	
26 05 43 00-0047	LF		2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	42.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	82.85	
26 05 43 00-0049 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	118.02	
26 05 43 00-0050 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	37.32	
26 05 43 00-0051 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	58.08	
26 05 43 00-0052 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	116.43	
26 05 43 00-0053 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	187.15	
 26 05 43 00-0054 Male Or Female Adapters <small>(26 05 43 00-0001)</small>		
26 05 43 00-0055 EA 2" Adapter.....	47.92	
26 05 43 00-0056 EA 3" Adapter.....	70.14	
26 05 43 00-0057 EA 4" Adapter.....	91.01	
26 05 43 00-0058 EA 5" Adapter.....	142.55	
26 05 43 00-0059 EA 6" Adapter.....	175.58	
 26 05 46 Utility Poles for Electrical Systems <small>(26 05)</small>		
26 05 46 00-0001 Wood Poles <small>(26 05 46)</small>		
26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention <small>(26 05 46 00-0001)</small>		
Note: Machine dig and set.		
26 05 46 00-0003 EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,020.21	350.59
For Class 1 Pole, Add	111.62	
For Class 2 Pole, Add	63.78	
For Class 4 Pole, Deduct	-31.89	
For Class 5 Pole, Deduct	-95.67	
For Class 6 Pole, Deduct	-127.56	
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,210.99	388.98
For Class 1 Pole, Add	151.55	
For Class 2 Pole, Add	86.60	
For Class 4 Pole, Deduct	-43.30	
For Class 5 Pole, Deduct	-129.90	
For Class 6 Pole, Deduct	-173.20	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,573.24	514.45
For Class 1 Pole, Add	190.56	
For Class 2 Pole, Add	108.89	
For Class 4 Pole, Deduct	-54.45	
For Class 5 Pole, Deduct	-163.34	
For Class 6 Pole, Deduct	-217.79	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,792.80	565.84
For Class 1 Pole, Add	231.40	
For Class 2 Pole, Add	132.23	
For Class 4 Pole, Deduct	-66.12	
For Class 5 Pole, Deduct	-198.35	
For Class 6 Pole, Deduct	-264.46	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,043.56	630.22
For Class 1 Pole, Add	274.05	
For Class 2 Pole, Add	156.60	
For Class 4 Pole, Deduct	-78.30	
For Class 5 Pole, Deduct	-234.90	
For Class 6 Pole, Deduct	-313.20	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,322.01	707.30
For Class 1 Pole, Add	317.61	
For Class 2 Pole, Add	181.49	
For Class 4 Pole, Deduct	-90.75	
For Class 5 Pole, Deduct	-272.24	
For Class 6 Pole, Deduct	-362.98	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,593.10	777.95
For Class 1 Pole, Add	362.98	
For Class 2 Pole, Add	207.42	
For Class 4 Pole, Deduct	-103.71	
For Class 5 Pole, Deduct	-311.13	
For Class 6 Pole, Deduct	-414.84	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,893.36	855.48
For Class 1 Pole, Add	413.80	
For Class 2 Pole, Add	236.46	
For Class 4 Pole, Deduct	-118.23	
For Class 5 Pole, Deduct	-354.68	
For Class 6 Pole, Deduct	-472.91	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,589.07	932.41
For Class 1 Pole, Add	953.47	
For Class 2 Pole, Add	544.84	
For Class 4 Pole, Deduct	-272.42	
For Class 5 Pole, Deduct	-817.26	
For Class 6 Pole, Deduct	-1,089.68	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,029.30	991.87
For Class 1 Pole, Add	1,065.94	
For Class 2 Pole, Add	609.11	
For Class 4 Pole, Deduct	-304.55	
For Class 5 Pole, Deduct	-913.66	
For Class 6 Pole, Deduct	-1,218.22	

26 Electrical
26 05 Common Work Results for Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,518.58	1,059.38
For Class 1 Pole, Add	1,189.92	
For Class 2 Pole, Add	679.95	
For Class 4 Pole, Deduct	-339.98	
For Class 5 Pole, Deduct	-1,019.93	
For Class 6 Pole, Deduct	-1,359.90	
26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	29.87	
26 05 46 00-0016 Crossarms (26 05 46)		
Note: Includes hardware and braces.		
26 05 46 00-0017 Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	249.29	104.56
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	302.04	104.56
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	317.45	134.44
26 05 46 00-0021 Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	644.39	291.28
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	685.47	291.28
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	714.26	291.28
26 05 46 00-0025 Fiberglass Crossarms (26 05 46 00-0016)		
Note: Includes hardware.		
26 05 46 00-0026 Single Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	239.62	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB.....	309.91	62.74
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB.....	324.84	67.22
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB.....	389.20	80.66
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor.....	631.60	103.07
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor.....	751.38	125.48
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	109.84	17.92
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket.....	549.22	89.62
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm.....	449.03	149.37
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	135.06	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	106.91	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting.....	280.48	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting.....	209.76	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting.....	91.83	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting.....	78.10	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	251.67	
26 05 46 00-0048 Guying (26 05 46)		
Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole.....	962.29	418.26
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole.....	974.62	418.26
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole.....	999.98	418.26
26 05 46 00-0053 EA Guy Guard, Plastic.....	30.23	
26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole.....	1,421.75	642.32
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole.....	1,421.75	642.32
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole.....	1,421.75	642.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0058 Guy Strain Insulators Additional Insulators <small>(26 05 46 00-0048)</small> Note: As required at same material cost and labor.		
26 05 46 00-0059 EA Guy Strain Insulator	630.17	313.70
26 05 46 00-0060 Pole Anchor <small>(26 05 46 00-0048)</small> Note: Joslyn.		
26 05 46 00-0061 EA Pole Anchor, 4" Helix, 3/4" x 54" Shaft	57.78	25.25
26 05 46 00-0062 EA Pole Anchor, 6" Helix, 3/4" x 66" Shaft	65.30	25.25
26 05 46 00-0063 EA Pole Anchor, 8" Helix, 1" x 66" Shaft	86.95	28.41
26 05 46 00-0064 EA Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft	121.95	31.57
26 05 46 00-0065 EA Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft	139.25	34.72
26 05 46 00-0066 EA Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft	223.20	47.35
26 05 46 00-0067 Insulators <small>(26 05 46)</small>		
26 05 46 00-0068 Pin Insulator With Pin <small>(26 05 46 00-0067)</small>		
26 05 46 00-0069 EA 5 KV Class 55-3, Pin Insulator With Pin	203.36	89.62
26 05 46 00-0070 EA 15 KV Class 55-5, Pin Insulator With Pin	210.86	89.62
26 05 46 00-0071 Suspension Insulator <small>(26 05 46 00-0067)</small> Note: Includes clevis and strain clamp.		
26 05 46 00-0072 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp	260.74	119.50
26 05 46 00-0073 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp	281.11	119.50
26 05 46 00-0074 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	399.32	149.37
26 05 46 00-0075 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp	639.42	239.00
26 05 46 00-0076 Spool Insulator With Clevis <small>(26 05 46 00-0067)</small>		
26 05 46 00-0077 EA 5 KV Class 53-5, Spool Insulator With Clevis	86.83	37.35
26 05 46 00-0078 EA 15 KV Class, Spool Insulator With Clevis	280.00	134.44
26 05 46 00-0079 EA 25 KV Class, Spool Insulator With Clevis	362.67	134.44
26 05 46 00-0080 Secondary Rack <small>(26 05 46 00-0067)</small>		
26 05 46 00-0081 EA 1 Spool Secondary Rack	172.18	74.69
26 05 46 00-0082 EA 2 Spool Secondary Rack	178.76	95.30
26 05 46 00-0083 EA 3 Spool Secondary Rack	267.44	126.97
26 05 46 00-0084 EA 4 Spool Secondary Rack	299.94	126.97
26 05 46 00-0085 Outdoor Load Break Switches <small>(26 05 46)</small> Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
26 05 46 00-0086 7.2 KV Outdoor Load Break Switches <small>(26 05 46 00-0085)</small>		
26 05 46 00-0087 EA 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	4,273.21	507.88
26 05 46 00-0088 EA 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	8,208.17	507.88
26 05 46 00-0089 EA 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,209.85	858.92
26 05 46 00-0090 EA 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,518.72	858.92
26 05 46 00-0091 14.4 KV Outdoor Load Break Switches <small>(26 05 46 00-0085)</small>		
26 05 46 00-0092 EA 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,175.10	507.88
26 05 46 00-0093 EA 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	9,655.59	507.88
26 05 46 00-0094 EA 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,209.85	858.92
26 05 46 00-0095 EA 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,518.72	858.92
26 05 46 00-0096 23 KV Outdoor Load Break Switches <small>(26 05 46 00-0085)</small>		
26 05 46 00-0097 EA 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,719.91	590.04
26 05 46 00-0098 EA 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	10,576.64	590.04
26 05 46 00-0099 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,811.76	1,015.77
26 05 46 00-0100 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,130.75	1,015.77
26 05 46 00-0101 Square Distribution Poles <small>(26 05 46)</small>		
26 05 46 00-0102 Square Steel Tapered Shaft Distribution Poles <small>(26 05 46 00-0101)</small>		
26 05 46 00-0103 EA 20', Steel Taped Shaft Distribution Pole	2,974.11	634.86
26 05 46 00-0104 EA 25', Steel Taped Shaft Distribution Pole	3,328.95	672.19
26 05 46 00-0105 EA 30', Steel Taped Shaft Distribution Pole	3,623.17	746.88
26 05 46 00-0106 EA 35', Steel Taped Shaft Distribution Pole	4,005.37	821.57
26 05 46 00-0107 EA 40', Steel Taped Shaft Distribution Pole	5,286.10	896.27
26 05 46 00-0108 Square Prestressed Concrete Distribution Poles <small>(26 05 46 00-0101)</small>		
26 05 46 00-0109 EA 30', Prestressed Concrete Square Pole For Distribution	4,905.61	1,115.23

26 Electrical
26 05 Common Work Results for Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0110 EA 35', Prestressed Concrete Square Pole For Distribution.....	5,511.09	1,223.15
26 05 46 00-0111 EA 40', Prestressed Concrete Square Pole For Distribution.....	6,443.54	1,367.06
26 05 46 00-0112 EA 45', Prestressed Concrete Square Pole For Distribution.....	7,254.04	1,510.96
26 05 46 00-0113 EA 50', Prestressed Concrete Square Pole For Distribution.....	6,957.29	1,834.74
26 05 46 00-0114 EA 55', Prestressed Concrete Square Pole For Distribution.....	10,224.02	2,158.51
26 05 46 00-0115 EA 60', Prestressed Concrete Square Pole For Distribution.....	12,033.52	2,446.32
26 05 46 00-0116 EA 65', Prestressed Concrete Square Pole For Distribution.....	14,544.14	3,021.92
26 05 46 00-0117 EA 70', Prestressed Concrete Square Pole For Distribution.....	16,273.55	3,309.71
26 05 46 00-0118 Aluminum Tapered Poles (26 05 46)		
26 05 46 00-0119 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0118)		
26 05 46 00-0120 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	2,662.23	560.16
26 05 46 00-0121 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	3,614.36	597.51
26 05 46 00-0122 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,145.56	672.19
26 05 46 00-0123 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	4,877.72	746.88
26 05 46 00-0124 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution.....	7,142.67	821.57
26 05 46 00-0125 Steel Service Poles Distribution (26 05 46)		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
26 05 46 00-0126 Round Tapered Pole (26 05 46 00-0125)		
26 05 46 00-0127 EA 40', Galvanized Steel Tapered Round Pole For Distribution.....	3,852.57	896.27
26 05 46 00-0128 EA 45', Galvanized Steel Tapered Round Pole For Distribution.....	4,416.10	970.95
26 05 46 00-0129 EA 50', Galvanized Steel Tapered Round Pole For Distribution.....	4,714.49	1,045.64
26 05 46 00-0130 EA 55', Galvanized Steel Tapered Round Pole For Distribution.....	5,522.50	1,195.01
26 05 46 00-0131 EA 60', Galvanized Steel Tapered Round Pole For Distribution.....	6,718.93	1,344.39
26 05 46 00-0132 EA 65', Galvanized Steel Tapered Round Pole For Distribution.....	8,000.99	1,690.83
26 05 46 00-0133 EA 70', Galvanized Steel Tapered Round Pole For Distribution.....	8,938.81	1,918.20
26 05 46 00-0134 EA 75', Galvanized Steel Tapered Round Pole For Distribution.....	9,901.24	2,158.51
26 05 46 00-0135 EA 80', Galvanized Steel Tapered Round Pole For Distribution.....	11,150.96	2,446.32
26 05 46 00-0136 EA 85', Galvanized Steel Tapered Round Pole For Distribution.....	11,902.41	2,590.21
26 05 46 00-0137 EA 90', Galvanized Steel Tapered Round Pole For Distribution.....	12,979.46	2,878.02
26 05 46 00-0138 EA 95', Galvanized Steel Tapered Round Pole For Distribution.....	14,284.47	3,237.77
26 05 46 00-0139 EA 100', Galvanized Steel Tapered Round Pole For Distribution.....	15,877.56	3,669.47
26 05 46 00-0140 12 Sided Tapered (26 05 46 00-0125)		
26 05 46 00-0141 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,060.15	896.27
26 05 46 00-0142 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	6,671.50	970.95
26 05 46 00-0143 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	7,363.69	1,045.64
26 05 46 00-0144 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	8,129.89	1,195.01
26 05 46 00-0145 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	10,603.18	1,344.39
26 05 46 00-0146 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	11,909.13	1,690.83
26 05 46 00-0147 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	13,765.78	1,918.20
26 05 46 00-0148 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	14,880.36	2,158.51
26 05 46 00-0149 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	16,123.83	2,446.32
26 05 46 00-0150 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	17,087.42	2,590.21
26 05 46 00-0151 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	19,354.76	2,878.02
26 05 46 00-0152 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	20,641.91	3,237.77
26 05 46 00-0153 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	22,276.73	3,669.47
26 05 46 00-0154 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution.....	24,005.45	4,101.17
26 05 46 00-0155 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0125)		
26 05 46 00-0156 EA Ladder Clips.....	19.18	
26 05 46 00-0157 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	143.91	
26 05 46 00-0158 EA Ground Sleeve-2' At Ground Line.....	144.75	
26 05 46 00-0159 Arms With Baseplates And Endplates (26 05 46 00-0125)		
26 05 46 00-0160 EA 4' Arm With Baseplate And Endplate.....	657.39	149.37
26 05 46 00-0161 EA 5' Arm With Baseplate And Endplate.....	706.01	149.37
26 05 46 00-0162 EA 6' Arm With Baseplate And Endplate.....	905.17	224.06
26 05 46 00-0163 EA 7' Arm With Baseplate And Endplate.....	947.70	224.06
26 05 46 00-0164 EA 8' Arm With Baseplate And Endplate.....	1,144.58	298.76
26 05 46 00-0165 EA 9' Arm With Baseplate And Endplate.....	1,193.18	298.76
26 05 46 00-0166 EA 10' Arm With Baseplate And Endplate.....	1,567.48	373.45
26 05 46 00-0167 EA 11' Arm With Baseplate And Endplate.....	1,622.04	373.45
26 05 46 00-0168 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0125)		
26 05 46 00-0169 EA 15,000 LB Standard Vangs Load Bearing At Any Angle.....	338.86	149.37
26 05 46 00-0170 EA 30,000 LB Standard Vangs Load Bearing At Any Angle.....	368.65	149.37
26 05 46 00-0171 EA 45,000 LB Standard Vangs Load Bearing At Any Angle.....	409.39	149.37
26 05 46 00-0172 Armless Construction Brackets (26 05 46 00-0125)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0173				Verticals Insulator And Equipment Bracket <small>(26 05 46 00-0172)</small>		
			EA	7" 1 Position Vertical Insulation And Equipment Bracket.....	343.72	149.37
			EA	12" 1 Position Vertical Insulation And Equipment Bracket.....	362.53	149.37
			EA	12" 3 Position Vertical Insulation And Equipment Bracket.....	393.09	149.37
			EA	18" 1 Position Vertical Insulation And Equipment Bracket.....	562.82	224.06
			EA	18" 3 Position Vertical Insulation And Equipment Bracket.....	580.66	224.06
26 05 46 00-0179				Horizontal And Multiple Insulator Brackets <small>(26 05 46 00-0172)</small>		
			EA	Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets.....	329.07	149.37
			EA	Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets.....	368.60	149.37
			EA	Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets.....	543.67	224.06
			EA	Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets.....	636.96	224.06
			EA	Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets.....	824.84	298.76
			EA	Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets.....	874.35	298.76
26 05 46 00-0186				Pole Top Bracket And Pins <small>(26 05 46 00-0172)</small>		
			EA	Pole Top Pin - 5".....	334.81	149.37
			EA	Pole Top Bracket - 5".....	344.41	149.37
26 05 46 00-0189				Angle Pins <small>(26 05 46 00-0172)</small>		
			EA	Angle Pin - 25 Degree, 6".....	333.51	149.37
			EA	Angle Pin - 25 Degree, 7 1/4".....	364.68	149.37
26 05 46 00-0192				Static And Neutral Wire Brackets <small>(26 05 46 00-0172)</small>		
			EA	Neutral Wire Extension Bracket.....	357.20	149.37
			EA	Static Wire Support Bracket.....	361.39	149.37
26 05 46 00-0195				Cutout, Arrestor And Terminator Brackets <small>(26 05 46 00-0172)</small>		
			EA	Cutout And Arrestor, With Mounting Bracket.....	327.31	149.37
			EA	Equipment Mounting T Bracket.....	345.99	149.37
			EA	15 KV Cutout.....	431.51	
			EA	9/10 KV Arrestor.....	405.22	149.37
26 05 46 00-0200				Spacer Cable, Conduit Support And Cluster Bracket <small>(26 05 46 00-0172)</small>		
			EA	Parallel Cable Spacer.....	387.27	149.37
			EA	Conduit Standoff Support Bracket.....	373.90	149.37
			EA	Three Transformer Pole Mounted Cluster Bracket.....	837.63	149.37
26 05 46 00-0204				15 KV, 200 Amperes, Solenoid Operated High Voltage Switch <small>(26 05 46 00-0172)</small>		
				Note: Includes pole mounting bracket.		
			EA	15 KV, 1 Phase, Solenoid Switch With Pole Bracket.....	1,904.85	373.45
26 05 46 00-0206				Octagonal Tapered <small>(26 05 46 00-0125)</small>		
			EA	40', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,224.23	896.27
			EA	45', Galvanized Steel Tapered Octagonal Pole For Distribution.....	6,853.48	970.95
			EA	50', Galvanized Steel Tapered Octagonal Pole For Distribution.....	7,566.56	1,045.64
			EA	55', Galvanized Steel Tapered Octagonal Pole For Distribution.....	8,350.65	1,269.70
			EA	60', Galvanized Steel Tapered Octagonal Pole For Distribution.....	10,907.48	1,344.39
			EA	65', Galvanized Steel Tapered Octagonal Pole For Distribution.....	12,237.29	1,690.83
			EA	70', Galvanized Steel Tapered Octagonal Pole For Distribution.....	14,147.65	1,798.76
			EA	75', Galvanized Steel Tapered Octagonal Pole For Distribution.....	15,287.58	2,158.51
			EA	80', Galvanized Steel Tapered Octagonal Pole For Distribution.....	16,554.90	2,302.41
			EA	85', Galvanized Steel Tapered Octagonal Pole For Distribution.....	17,543.87	2,590.21
			EA	90', Galvanized Steel Tapered Octagonal Pole For Distribution.....	19,875.35	2,734.11
			EA	95', Galvanized Steel Tapered Octagonal Pole For Distribution.....	21,189.35	3,237.77
			EA	100', Galvanized Steel Tapered Octagonal Pole For Distribution.....	22,851.02	3,453.62
			EA	105', Galvanized Steel Tapered Octagonal Pole For Distribution.....	24,609.57	3,885.33
26 05 46 00-0221				Removal And Relocation Of Steel Service Poles <small>(26 05 46 00-0125)</small>		
			LF	Removal And Relocation Of Steel Service Poles With Arms Up To 60'.....	52.27	
26 05 46 00-0223				Special Steel Bases For Poles <small>(26 05 46 00-0125)</small>		
			EA	Spin-In Steel Base For Poles.....	248.11	
			EA	Series 3, 25' Pole And less.....	268.94	74.69
			EA	Series 4, 40' Pole And less.....	317.94	85.89
			EA	Series 5, 50' Pole And less.....	359.44	93.36

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0228 Primary Fuse Cutouts <small>(26 05 46)</small> Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 05 46 00-0229 Non-Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0228)</small> Note: Includes the fuse and cut-out switch.		
26 05 46 00-0230 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....716.54		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....865.91		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....224.06		
EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....1,014.79		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.73		
EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....1,026.42		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.89		
EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting .....1,026.42		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.89		
26 05 46 00-0236 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting .....716.54		298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
26 05 46 00-0238 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting <small>(26 05 46 00-0229)</small>		
EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting .....731.55		298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
26 05 46 00-0240 Fuseholders <small>(26 05 46 00-0229)</small> Note: Including current limiting fuse.		
EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....653.27		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....802.64		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....224.06		
EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....951.52		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.73		
EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....658.47		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....807.84		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....224.06		
EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting .....653.27		298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
26 05 46 00-0247 Accessories <small>(26 05 46 00-0229)</small>		
EA Hot Line Clamp .....90.18		33.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....22.41		
EA Stirrup .....94.95		33.61
26 05 46 00-0250 Loadbreak Current Limiting Primary Fuse Cutouts <small>(26 05 46 00-0228)</small> Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 05 46 00-0251 8.3 KV-95 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....833.43		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....982.80		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....224.06		
EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....1,131.68		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.73		
EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....1,154.21		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.89		
EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting .....1,154.21		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....268.89		
26 05 46 00-0257 17.1 KV-95 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting .....833.43		298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
26 05 46 00-0259 17.1 KV-125 KV BIL Loadbreak Current Limiting <small>(26 05 46 00-0250)</small>		
EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting .....833.43		298.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
26 05 46 00-0261 Fuseholders <small>(26 05 46 00-0250)</small> Note: Includes current limiting fuses.		
EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....658.63		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....179.25		
EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting .....808.00		373.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....224.06		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0264 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	956.88 268.73	373.45
26 05 46 00-0265 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	658.63 179.25	373.45
26 05 46 00-0266 Pole Mounted Capacitors (26 05 46 00-0260)		
26 05 46 00-0267 EA Capacitors - Pole Mounted 6 KVAR.....	1,268.53	301.14
26 05 46 00-0268 Pole Structure Assemblies (26 05 46 00-0228)		
26 05 46 00-0269 5 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0270 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	587.27	283.82
26 05 46 00-0271 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	984.29	478.01
26 05 46 00-0272 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	961.84	373.45
26 05 46 00-0273 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	524.18	194.19
26 05 46 00-0274 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	690.06	268.87
26 05 46 00-0275 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,272.86	537.76
26 05 46 00-0276 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	978.56	403.32
26 05 46 00-0277 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,866.22	806.63
26 05 46 00-0278 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,108.70	911.20
26 05 46 00-0279 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,111.20	448.13
26 05 46 00-0280 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,031.47	478.01
26 05 46 00-0281 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,008.60	970.95
26 05 46 00-0282 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,385.14	582.57
26 05 46 00-0283 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	913.51	418.26
26 05 46 00-0284 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,788.86	851.44
26 05 46 00-0285 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,262.00	433.20
26 05 46 00-0286 15 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0287 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	602.28	283.82
26 05 46 00-0288 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,005.74	478.01
26 05 46 00-0289 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,034.76	373.45
26 05 46 00-0290 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	549.91	194.19
26 05 46 00-0291 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	726.51	253.94
26 05 46 00-0292 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,345.78	537.76
26 05 46 00-0293 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,032.18	403.32
26 05 46 00-0294 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,975.60	806.63
26 05 46 00-0295 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,256.68	911.20
26 05 46 00-0296 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,184.12	448.13
26 05 46 00-0297 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,059.35	478.01
26 05 46 00-0298 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,036.48	970.95
26 05 46 00-0299 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,440.90	582.57
26 05 46 00-0300 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	941.39	403.32
26 05 46 00-0301 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,816.74	851.44
26 05 46 00-0302 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,317.76	522.82
26 05 46 00-0303 25 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0304 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,439.34	448.13
26 05 46 00-0305 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	834.94	224.06
26 05 46 00-0306 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,220.51	343.57
26 05 46 00-0307 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,842.94	702.07
26 05 46 00-0308 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,613.55	522.82
26 05 46 00-0309 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,797.46	1,030.70
26 05 46 00-0310 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,832.14	1,165.14
26 05 46 00-0311 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,877.25	679.67
26 05 46 00-0312 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,678.55	679.67
26 05 46 00-0313 50 KV Pole Structure Assemblies (26 05 46 00-0268)		
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 05 46 00-0314 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,934.74	612.44
26 05 46 00-0315 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,029.66	313.70
26 05 46 00-0316 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,409.78	492.95
26 05 46 00-0317 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,708.03	1,000.83
26 05 46 00-0318 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,059.97	746.88
26 05 46 00-0319 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	4,014.86	1,493.77
26 05 46 00-0320 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	4,644.92	1,658.08
26 05 46 00-0321 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,329.47	806.63
26 05 46 00-0322 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,465.58	933.60
26 05 46 00-0323 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,355.74	881.33
26 05 46 00-0324 Overhead To Underground Conversion Structures (26 05 46 00-0228)		
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		

26 Electrical
26 05 Common Work Results for Electrical
26 05 46 Utility Poles for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0325 5 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0326 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0327 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0328 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0329 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	5,388.64	2,987.54
26 05 46 00-0330 15 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0331 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0332 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0333 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0334 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles	5,489.55	2,987.54
26 05 46 00-0335 25 KV Structures <small>(26 05 46 00-0324)</small> Note: Excludes pole.		
26 05 46 00-0336 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0337 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0338 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0339 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles	5,599.64	2,987.54
26 05 46 00-0340 Transformer Stations <small>(26 05 46 00-0228)</small> Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 05 46 00-0341 5 KV Station <small>(26 05 46 00-0340)</small>		
26 05 46 00-0342 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	7,332.83	3,982.39
26 05 46 00-0343 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole	8,235.67	4,481.31
26 05 46 00-0344 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole	9,138.51	4,978.73
26 05 46 00-0345 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole	9,138.51	4,978.73
26 05 46 00-0346 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole	7,332.83	3,982.39
26 05 46 00-0347 15 KV Stations <small>(26 05 46 00-0340)</small>		
26 05 46 00-0348 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	7,433.75	3,981.26
26 05 46 00-0349 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole	8,336.58	4,481.31
26 05 46 00-0350 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole	9,239.42	4,978.73
26 05 46 00-0351 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole	9,239.42	4,978.73
26 05 46 00-0352 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole	7,433.75	3,982.39
26 05 46 00-0353 25 KV Stations <small>(26 05 46 00-0340)</small>		
26 05 46 00-0354 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	7,543.83	3,982.39
26 05 46 00-0355 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole	8,446.67	4,481.31
26 05 46 00-0356 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole	9,349.51	4,978.73
26 05 46 00-0357 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole	9,349.51	4,978.73
26 05 46 00-0358 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole	7,543.83	3,982.39
26 05 53 Identification for Electrical Systems <small>(26 05)</small>		
26 05 53 00-0001 Conduit Markers Pressure-Sensitive <small>(26 05 53)</small> Note: Stick-on, includes arrow tape.		
26 05 53 00-0002 EA 1/2" Outside Diameter Pressure Sensitive Marker Stick-on	16.07	
26 05 53 00-0003 EA 3/4" Outside Diameter Pressure Sensitive Marker Stick-on	16.76	
26 05 53 00-0004 EA 1" Outside Diameter Pressure Sensitive Marker Stick-on	18.14	
26 05 53 00-0005 EA 1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	18.41	
26 05 53 00-0006 EA 1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	18.68	
26 05 53 00-0007 EA 2" Outside Diameter Pressure Sensitive Marker Stick-on	19.10	
26 05 53 00-0008 EA 2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	22.79	
26 05 53 00-0009 EA 3" Outside Diameter Pressure Sensitive Marker Stick-on	23.33	
26 05 53 00-0010 EA 3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	23.74	
26 05 53 00-0011 EA 4" Outside Diameter Pressure Sensitive Marker Stick-on	24.17	
26 05 53 00-0012 EA 4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	25.02	
26 05 53 00-0013 EA 5" Outside Diameter Pressure Sensitive Marker Stick-on	25.94	
26 05 53 00-0014 EA 6" Outside Diameter Pressure Sensitive Marker Stick-on	26.75	
26 05 53 00-0015 EA 7" Outside Diameter Pressure Sensitive Marker Stick-on	27.56	
26 05 53 00-0016 EA 8" Outside Diameter Pressure Sensitive Marker Stick-on	30.51	
26 05 53 00-0017 EA 10" Outside Diameter Pressure Sensitive Marker Stick-on	32.01	
26 05 53 00-0018 Labeling Electrical Wires <small>(26 05 53)</small> Note: Self-adhesive vinyl coated white cloth		
26 05 53 00-0019 EA Labeling Wire	4.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 83 Wiring Connections (26 05)

26 05 83 00-0001 Tape Wrapped Compression Connectors (26 05 83)

26 05 83 00-0002	EA #6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	17.24	6.16
26 05 83 00-0003	EA #4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	18.80	6.84
26 05 83 00-0004	EA #2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	20.18	7.52
26 05 83 00-0005	EA 1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	23.12	8.21
26 05 83 00-0006	EA 2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	24.89	8.90
26 05 83 00-0007	EA 3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	27.51	9.58
26 05 83 00-0008	EA 4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	29.45	10.26
26 05 83 00-0009	EA 250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	32.02	10.94
26 05 83 00-0010	EA 300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	35.48	12.31
26 05 83 00-0011	EA 350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	37.26	13.00
26 05 83 00-0012	EA 400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	41.10	13.69
26 05 83 00-0013	EA 500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	44.51	14.37
26 05 83 00-0014	EA 750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	49.59	15.73
26 05 83 00-0015	EA 1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	57.32	17.78

26 05 83 00-0016 One Hole Compression Lugs (26 05 83)

26 05 83 00-0017	EA #22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	23.26	17.78
26 05 83 00-0018	EA #16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	23.40	17.78
26 05 83 00-0019	EA #12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	26.45	19.16
26 05 83 00-0020	EA #8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	32.39	21.21
26 05 83 00-0021	EA #6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	45.67	27.36
26 05 83 00-0022	EA #4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	53.72	27.36
26 05 83 00-0023	EA #2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	61.80	27.36
26 05 83 00-0024	EA 1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	76.31	41.05
26 05 83 00-0025	EA 2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	89.63	41.05
26 05 83 00-0026	EA 3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	104.93	41.05
26 05 83 00-0027	EA 4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug	126.61	54.73
26 05 83 00-0028	EA 250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	150.18	82.10
26 05 83 00-0029	EA 300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	171.77	82.10
26 05 83 00-0030	EA 350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	184.68	82.10
26 05 83 00-0031	EA 400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	200.94	95.78
26 05 83 00-0032	EA 500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	219.61	95.78
26 05 83 00-0033	EA 750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	238.74	109.46
26 05 83 00-0034	EA 1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug	279.65	123.14

26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)

26 05 83 00-0036	EA #8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	47.32	23.27
26 05 83 00-0037	EA #6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	50.72	24.77
26 05 83 00-0038	EA #4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	53.56	24.77
26 05 83 00-0039	EA #2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	61.62	28.46
26 05 83 00-0040	EA 1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	76.12	35.58
26 05 83 00-0041	EA 2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	89.43	42.28
26 05 83 00-0042	EA 3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	104.71	49.53
26 05 83 00-0043	EA 4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug	126.36	60.07
26 05 83 00-0044	EA 250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	149.89	71.29
26 05 83 00-0045	EA 300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	171.43	81.41
26 05 83 00-0046	EA 350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	184.33	87.70
26 05 83 00-0047	EA 400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	200.53	94.96
26 05 83 00-0048	EA 500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	219.14	103.71
26 05 83 00-0049	EA 750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	239.18	112.47
26 05 83 00-0050	EA 1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug	295.12	136.83

26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)

26 05 83 00-0052	EA #8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	71.27	54.73
26 05 83 00-0053	EA #6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	78.38	58.84
26 05 83 00-0054	EA #4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	89.29	61.57
26 05 83 00-0055	EA #2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	103.39	68.41
26 05 83 00-0056	EA 1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	121.76	75.26
26 05 83 00-0057	EA 2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	135.61	82.10
26 05 83 00-0058	EA 3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	169.17	88.93
26 05 83 00-0059	EA 4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	181.45	95.78
26 05 83 00-0060	EA 250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	191.13	102.62
26 05 83 00-0061	EA 300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	216.74	112.88
26 05 83 00-0062	EA 350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	242.33	164.19
26 05 83 00-0063	EA 400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	264.98	136.83
26 05 83 00-0064	EA 500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	287.61	184.71
26 05 83 00-0065	EA 750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	316.72	191.56
26 05 83 00-0066	EA 1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt	356.21	205.24

26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)

26 05 83 00-0068	EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt	114.51	54.73
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	127.80	54.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.58	
26 05 83 00-0070 EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	177.27	82.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.61	
26 05 83 00-0071 EA 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	201.79	82.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.63	
26 05 83 00-0072 EA 300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	240.96	102.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.20	
26 05 83 00-0073 EA 500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	335.84	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.52	
26 05 83 00-0074 Terminal Blocks <small>(26 05 83)</small>		
Note: Labor excludes wire termination.		
26 05 83 00-0075 EA Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,166.72	506.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	304.06	
26 05 83 00-0076 EA #22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	276.38	68.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.51	
26 05 83 00-0077 EA #8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	302.54	68.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.95	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small>		
26 05 83 00-0079 EA #8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	47.31	24.77
26 05 83 00-0080 EA #6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	50.72	24.77
26 05 83 00-0081 EA #4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	53.56	24.77
26 05 83 00-0082 EA #2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	61.62	28.46
26 05 83 00-0083 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	76.12	35.58
26 05 83 00-0084 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	89.43	42.28
26 05 83 00-0085 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	104.71	49.53
26 05 83 00-0086 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	126.36	60.07
26 05 83 00-0087 EA 250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	149.89	71.29
26 05 83 00-0088 EA 300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	171.43	81.41
26 05 83 00-0089 EA 350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	184.33	87.70
26 05 83 00-0090 EA 400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	200.53	94.96
26 05 83 00-0091 EA 500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	219.14	103.71
26 05 83 00-0092 EA 750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	219.56	103.71
26 05 83 00-0093 EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover	47.31	24.77
26 05 83 00-0094 EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover	50.72	24.77
26 05 83 00-0095 EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover	53.56	24.77
26 05 83 00-0096 EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover	61.62	28.46
26 05 83 00-0097 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	76.12	35.58
26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	89.43	42.28
26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	104.71	49.53
26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover	126.36	60.07
26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover	149.89	71.29
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	171.43	81.41
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	184.33	87.70
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	200.53	94.96
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	219.14	103.71
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	219.56	103.71
26 05 83 00-0107 Copper Mechanical Lugs <small>(26 05 83)</small>		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs	37.38	17.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.26	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs	44.94	20.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.39	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs	51.97	23.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.37	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs	67.51	30.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.32	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs	90.87	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs	107.53	47.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.61	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs	125.09	54.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs	141.80	61.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.83	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs.....	161.19	68.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs.....	180.25	75.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.17	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs.....	199.21	82.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs.....	218.05	88.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.32	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs.....	237.20	95.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.47	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs.....	269.19	109.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	304.52 73.89	123.14
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit..... <i>Note: Kit contains connector, gel filled cap and cap clamp. For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.04 4.11	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.88 4.94	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37 3.75	6.25
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.45 3.75	6.25
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.54 3.75	6.25
26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)		
<i>Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors. See CSI section 23 05 13 00-0000 for motors, 23 05 13 00-0216 for motor mounting.</i>		
26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.68	34.21
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.14	68.41
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	204.84	85.52
26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.14	68.41
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	204.84	85.52
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.97	85.52
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	264.35	102.62
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	272.16	102.62
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	371.00	136.83
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	465.03	171.03
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	548.41	205.24
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	652.26	239.45
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	749.58	273.66
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	930.57	342.07
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,099.32	407.06
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,301.22	474.79
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,858.04	712.04
26 05 83 00-0164 AC Three Phase, 460 Volt (26 05 83 00-0130)		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	83.17	34.21
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	97.46	41.05
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	119.12	51.31
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.14	51.31
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	120.35	51.31
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	123.73	51.31
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	158.35	68.41
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	162.14	68.41
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	204.84	85.52
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	209.97	85.52
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	264.37	102.62
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	272.14	102.62
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	371.00	136.83
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	465.44	171.31
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	548.41	205.24
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	652.26	239.45

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	749.58	273.66
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	930.57	342.07
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,099.71	407.20
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,301.75	475.06
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,859.22	712.60

26 05 83 00-0186 AC Single Phase, 120 Volt (26 05 83 00-0130)

26 05 83 00-0187 EA 1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing	83.68	34.21
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26 05 83 00-0188 Motor Moisture Sensor (26 05 83 00-0130)

26 05 83 00-0189 EA Motor Moisture Sensor Located In Winding.....	695.72	
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26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)**26 09 23 00-0001 Lighting Contactors** (26 09 23)

Note: Up to 600 volt.

26 09 23 00-0002 Electrically Held, Lighting Contactors (26 09 23 00-0001)**26 09 23 00-0003 NEMA 1 Enclosure, Electrically Held, Lighting Contactors** (26 09 23 00-0002)**26 09 23 00-0004 2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors** (26 09 23 00-0003)

26 09 23 00-0005 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	545.10	109.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.68	
26 09 23 00-0006 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	672.86	123.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 09 23 00-0007 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,256.88	191.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.94	
26 09 23 00-0008 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,954.70	259.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.98	
26 09 23 00-0009 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	4,058.19	342.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.24	

26 09 23 00-0010 3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)

26 09 23 00-0011 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	615.57	123.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 09 23 00-0012 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	737.87	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.10	
26 09 23 00-0013 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,361.79	218.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.36	
26 09 23 00-0014 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	2,111.60	287.33
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.40	
26 09 23 00-0015 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	4,356.91	376.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	225.76	

26 09 23 00-0016 4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)

26 09 23 00-0017 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	724.24	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.10	
26 09 23 00-0018 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	868.29	150.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.31	
26 09 23 00-0019 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,645.93	246.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.77	
26 09 23 00-0020 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	2,523.89	314.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.82	
26 09 23 00-0021 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	5,557.18	410.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	246.29	

26 09 23 00-0022 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)**26 09 23 00-0023 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors** (26 09 23 00-0002)

26 09 23 00-0024 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	891.86	109.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.68	
26 09 23 00-0025 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	1,132.60	123.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 09 23 00-0026 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	2,173.65	191.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.94	
26 09 23 00-0027 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	3,256.82	259.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.98	
26 09 23 00-0028 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor	6,280.68	342.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.24	

26 09 23 00-0029 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0030 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	926.08	123.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
26 09 23 00-0031 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,197.60	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.10	
26 09 23 00-0032 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,281.26	218.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.36	
26 09 23 00-0033 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	3,412.83	287.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.40	
26 09 23 00-0034 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	6,578.50	376.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	225.76	
26 09 23 00-0035 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors <small>(26 09 23 00-0022)</small>		
26 09 23 00-0036 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,001.45	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.10	
26 09 23 00-0037 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	1,328.02	150.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.31	
26 09 23 00-0038 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	2,922.96	246.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.77	
26 09 23 00-0039 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	4,182.69	314.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.82	
26 09 23 00-0040 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor.....	8,764.55	410.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	246.29	
26 09 23 00-0041 Mechanically Held, Lighting Contactors <small>(26 09 23 00-0001)</small>		
26 09 23 00-0042 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0041)</small>		
26 09 23 00-0043 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0042)</small>		
26 09 23 00-0044 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	797.82	109.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.68	
26 09 23 00-0045 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	907.66	123.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
26 09 23 00-0046 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,713.92	191.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.94	
26 09 23 00-0047 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,387.54	259.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.98	
26 09 23 00-0048 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	5,463.38	342.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	205.24	
26 09 23 00-0049 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0042)</small>		
26 09 23 00-0050 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	853.60	123.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
26 09 23 00-0051 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	974.46	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.10	
26 09 23 00-0052 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,821.53	218.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.36	
26 09 23 00-0053 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,545.34	287.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.40	
26 09 23 00-0054 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	6,142.96	376.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	225.76	
26 09 23 00-0055 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0042)</small>		
26 09 23 00-0056 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	922.11	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.10	
26 09 23 00-0057 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	1,039.46	150.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.31	
26 09 23 00-0058 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,129.86	246.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.77	
26 09 23 00-0059 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	2,983.62	314.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.82	
26 09 23 00-0060 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor.....	7,410.45	410.48
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	246.29	
26 09 23 00-0061 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0041)</small>		
26 09 23 00-0062 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0061)</small>		
26 09 23 00-0063 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,188.65	109.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.68	
26 09 23 00-0064 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	1,367.39	123.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.89	
26 09 23 00-0065 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	2,633.39	191.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.94	
26 09 23 00-0066 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	3,689.67	259.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	155.98	
26 09 23 00-0067 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor.....	7,684.07	342.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	205.24	

26	Electrical
26 09	Instrumentation and Control for Electrical Systems
26 09 23	Lighting Control Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0068			3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0069	EA		20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 1,257.16	123.14	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 73.89		
26 09 23 00-0070	EA		30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 1,434.19	136.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.10		
26 09 23 00-0071	EA		60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 2,740.99	218.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 131.36		
26 09 23 00-0072	EA		100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 3,848.36	287.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.40		
26 09 23 00-0073	EA		200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 8,365.44	376.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 225.76		
26 09 23 00-0074			4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0061)		
26 09 23 00-0075	EA		20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 1,330.57	136.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.10		
26 09 23 00-0076	EA		30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 1,499.19	150.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 90.31		
26 09 23 00-0077	EA		60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 3,406.89	246.29	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 147.77		
26 09 23 00-0078	EA		100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 4,642.42	314.71	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 188.82		
26 09 23 00-0079	EA		200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor 10,552.39	410.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 246.29		
26 09 23 00-0080			Combination Lighting Contactors (26 09 23)		
			Note: Up to 600 volt.		
26 09 23 00-0081			Electrically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0082			NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0083			3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0082)		
26 09 23 00-0084	EA		30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 1,531.00	150.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 90.31		
26 09 23 00-0085	EA		60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 2,401.21	240.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 144.49		
26 09 23 00-0086	EA		100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 3,866.39	316.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 189.64		
26 09 23 00-0087	EA		200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 7,034.18	413.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 248.34		
26 09 23 00-0088			NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0081)		
26 09 23 00-0089			3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0088)		
26 09 23 00-0090	EA		30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 2,755.61	150.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 90.31		
26 09 23 00-0091	EA		60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 4,288.53	240.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 144.49		
26 09 23 00-0092	EA		100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 7,159.79	316.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 189.64		
26 09 23 00-0093	EA		200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch 11,247.04	413.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 248.34		
26 09 23 00-0094			Mechanically Held, Combination Lighting Contactors (26 09 23 00-0080)		
26 09 23 00-0095			NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0094)		
26 09 23 00-0096			3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0095)		
26 09 23 00-0097	EA		30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch 1,670.81	150.50	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 90.31		
26 09 23 00-0098	EA		60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch 2,885.14	240.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 144.49		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0099 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,324.78	316.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>189.64</i>	
26 09 23 00-0100 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	8,336.75	413.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>248.34</i>	
26 09 23 00-0101 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0094)</small>		
26 09 23 00-0102 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <small>(26 09 23 00-0101)</small>		
26 09 23 00-0103 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	2,896.76	150.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>90.31</i>	
26 09 23 00-0104 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	4,775.15	240.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>144.49</i>	
26 09 23 00-0105 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	7,619.52	316.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>189.64</i>	
26 09 23 00-0106 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch	12,549.61	413.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>248.34</i>	
26 09 23 00-0107 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket <small>(26 09 23)</small>		
26 09 23 00-0108 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	142.86	35.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>21.38</i>	
26 09 23 00-0109 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket	154.73	35.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>21.38</i>	
26 09 23 00-0110 Dimming Module System (Lutron Grafik Eye) <small>(26 09 23)</small>		
26 09 23 00-0111 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2)	1,481.20	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>82.10</i>	
26 09 23 00-0112 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4)	1,891.31	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>82.10</i>	
26 09 23 00-0113 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6)	2,308.74	136.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>82.10</i>	
26 09 23 00-0114 Dimming Module Contol (Leviton) <small>(26 09 23)</small>		
26 09 23 00-0115 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0)	191.36	17.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>10.28</i>	
26 09 23 00-0116 Light Control Panels <small>(26 09 23)</small>		
26 09 23 00-0117 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0118 Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0119 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4)	1,637.65	191.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>115.10</i>	
26 09 23 00-0120 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8)	1,550.98	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0121 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G)	1,729.18	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0122 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8)	2,526.65	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0123 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G)	2,735.86	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0124 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4)	1,809.02	191.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>115.10</i>	
26 09 23 00-0125 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8)	1,940.94	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0126 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G)	2,149.95	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0127 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8)	2,610.26	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0128 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G)	2,819.45	205.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>123.32</i>	
26 09 23 00-0129 Accessories For Lighting Control Panels (Watt Stopper) <small>(26 09 23 00-0117)</small>		
26 09 23 00-0130 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2)	167.86	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.55</i>	
26 09 23 00-0131 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W)	129.80	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	
26 09 23 00-0132 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2)	76.04	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>16.44</i>	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0133 Lighting Control Panels (Synergy) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0134 Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0135 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) .....2,343.99		205.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.32	
26 09 23 00-0136 Accessories For Lighting Control Panels (Synergy) <small>(26 09 23 00-0133)</small>		
26 09 23 00-0137 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....565.84		34.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 09 23 00-0138 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20) .....219.40		13.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 09 23 00-0139 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT) .....131.46		20.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 09 23 00-0140 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0141 Lighting Switching Panels (Lutron) <small>(26 09 23 00-0140)</small>		
26 09 23 00-0142 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....1,928.92		205.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.32	
26 09 23 00-0143 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT) .....2,609.54		219.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.54	
26 09 23 00-0144 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT) .....3,386.74		232.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.76	
26 09 23 00-0145 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) <small>(26 09 23 00-0116)</small>		
26 09 23 00-0146 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z) .....1,320.89		191.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.10	
26 09 23 00-0147 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) .....1,491.30		191.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.10	
26 09 23 00-0148 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) .....1,661.70		191.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	115.10	
26 09 23 00-0149 Power Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0150 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure.....37,808.08		1,140.18
26 09 23 00-0151 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure.....22,308.08		495.72
26 09 23 00-0152 Signal Filters <small>(26 09 23 00-0116)</small>		
26 09 23 00-0153 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case .....17,468.44		1,036.60
26 09 23 00-0154 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case .....11,925.21		633.51
26 09 23 00-0155 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case .....6,656.90		367.79
26 09 23 00-0156 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case .....9,025.41		367.79
26 09 23 00-0157 Lighting Control Devices (Encelium) <small>(26 09 23)</small>		
26 09 23 00-0158 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120V) With Polar3 3D™ (Encelium EN-ECU-G4-P3D).....12,979.78		137.03
Note: Excludes GB II cable.		
26 09 23 00-0159 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U) .....5,973.92		137.03
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0160 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT) .....3,144.59		137.03
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0161 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) .....13,055.69		137.03
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0162 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK) .....111.33		17.13
Note: Excludes GB II cable.		
26 09 23 00-0163 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR) .....167.39		17.13
Note: Excludes GB II cable.		
26 09 23 00-0164 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK) .....217.48		34.26
Note: Excludes GB II cable.		
26 09 23 00-0165 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR) .....258.68		34.26
Note: Excludes GB II cable.		
26 09 23 00-0166 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK) .....145.58		34.26
Note: Excludes GB II cable.		
26 09 23 00-0167 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR) .....201.64		34.26
Note: Excludes GB II cable.		
26 09 23 00-0168 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700).....498.35		68.51
Note: Excludes cable.		
26 09 23 00-0169 EA Rack Mounted, Wired Power Bar (Encelium PWR-700) .....383.19		68.51
26 09 23 00-0170 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800) .....672.68		68.51
26 09 23 00-0171 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700) .....253.05		68.51
26 09 23 00-0172 EA 4 Port, 10/100 VPn, Dual WAN, Wired Router (Encelium RV042) .....749.80		68.51
Note: Excludes cable.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0173 EA Wired BACnet Interface (Encelium BIF-600) Note: Excludes cable.	7,629.87	274.05
26 09 23 00-0174 EA Wired AV Interface (Encelium EN-SW-AVINT) Note: Excludes cable.	5,578.05	68.51
26 09 23 00-0175 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH) Note: Includes white finish. Excludes GB II cable.	216.51	17.13
26 09 23 00-0176 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	262.05	17.13
26 09 23 00-0177 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH) Note: Includes white finish. Excludes GB II cable.	251.06	17.13
26 09 23 00-0178 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH) Note: Includes white finish. Excludes GB II cable.	262.05	17.13
26 09 23 00-0179 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH) Note: Includes white finish. Excludes GB II cable.	251.06	17.13
26 09 23 00-0180 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT) Note: Includes white finish. Excludes GB II cable.	191.89	17.13
26 09 23 00-0181 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT) Note: Includes white finish. Excludes GB II cable.	262.05	17.13
26 09 23 00-0182 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT) Note: Includes white finish. Excludes GB II cable.	251.06	17.13
26 09 23 00-0183 EA Wired Key Switch Controller (Encelium KSW-300) Note: Excludes GB II cable.	187.46	17.13
26 09 23 00-0184 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH) Note: Includes white finish.	84.98	17.13
26 09 23 00-0185 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2) Note: Excludes GB II cable.	80.03	34.26
26 09 23 00-0186 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2) Note: Excludes GB II cable.	80.52	34.26
26 09 23 00-0187 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2) Note: Excludes GB II cable.	84.40	34.26
26 09 23 00-0188 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2) Note: Excludes GB II cable.	88.23	34.26
26 09 23 00-0189 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2) Note: Excludes GB II cable.	92.80	34.26
26 09 23 00-0190 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2) Note: Excludes GB II cable.	96.93	34.26
26 09 23 00-0191 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2) Note: Excludes GB II cable.	101.99	34.26
26 09 23 00-0192 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2) Note: Excludes GB II cable.	124.89	34.26
26 09 23 00-0193 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2) Note: Excludes GB II cable.	703.71	34.26
26 09 23 00-0194 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2) Note: Excludes GB II cable.	184.73	34.26
26 09 23 00-0195 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B) Note: Excludes GB II cable.	903.15	34.26
26 09 23 00-0196 EA Indoor Wired Photo Sensor (Encelium PHS-700) Note: Excludes GB II cable.	554.36	68.51
26 09 23 00-0197 EA Outdoor Wired Photo Sensor (Encelium PHS-800) Note: Excludes GB II cable.	554.36	68.51
26 09 23 00-0198 EA Skylight Wired Photo Sensor (Encelium PHS-900) Note: Excludes GB II cable.	554.36	68.51
26 09 23 00-0199 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450) Note: Excludes GB II cable.	306.20	68.51
26 09 23 00-0200 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500) Note: Excludes GB II cable.	297.88	68.51
26 09 23 00-0201 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00) Note: Excludes GB II cable.	303.43	68.51
26 09 23 00-0202 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY) Note: Excludes GB II cable.	331.16	68.51
26 09 23 00-0203 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG) Note: Excludes GB II cable.	303.43	68.51
26 09 23 00-0204 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV) Note: Excludes GB II cable.	247.97	68.51
26 09 23 00-0205 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V) Note: Excludes GB II cable.	260.65	68.51
26 09 23 00-0206 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V) Note: Excludes GB II cable.	260.65	68.51
26 09 23 00-0207 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLENS360) Note: Excludes GB II cable.	155.00	68.51
26 09 23 00-0208 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24) Note: Excludes GB II cable.	310.29	68.51
26 09 23 00-0209 EA Hallway, Wired Occupancy Sensor (Encelium HW-13) Note: Excludes GB II cable.	423.34	68.51
26 09 23 00-0210 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500) Note: Excludes GB II cable.	375.53	68.51
26 09 23 00-0211 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000) Note: Excludes GB II cable.	397.72	68.51
26 09 23 00-0212 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000) Note: Excludes GB II cable.	408.82	68.51
26 09 23 00-0213 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200) Note: Excludes GB II cable.	372.76	68.51
26 09 23 00-0214 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV) Note: Excludes GB II cable.	317.30	68.51
26 09 23 00-0215 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) Note: Excludes GB II cable.	387.46	68.51
26 09 23 00-0216 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W) Note: Excludes GB II cable.	384.55	68.51

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0217 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) .....422.40 Note: Excludes GB II cable.	422.40	68.51
26 09 23 00-0218 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) .....410.76 Note: Excludes GB II cable.	410.76	68.51
26 09 23 00-0219 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24).....439.20 Note: Excludes GB II cable.	439.20	68.51
26 09 23 00-0220 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV).....410.88 Note: Excludes GB II cable.	410.88	68.51
26 09 23 00-0221 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) .....410.88 Note: Excludes GB II cable.	410.88	68.51
26 09 23 00-0222 EA 10A, 120V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....283.07	283.07	68.51
26 09 23 00-0223 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....300.50	300.50	68.51
26 09 23 00-0224 EA 20A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P) .....497.96	497.96	68.51
26 09 23 00-0225 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P) .....529.97	529.97	68.51
26 09 23 00-0226 EA 10A, 120V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....400.85	400.85	68.51
26 09 23 00-0227 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....416.31	416.31	68.51
26 09 23 00-0228 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2).....1,161.52 Note: Excludes GB II cable and enclosure.	1,161.52	137.03
26 09 23 00-0229 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) .....3,695.21 Note: Excludes GB II cable.	3,695.21	548.10
26 09 23 00-0230 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) .....5,254.62 Note: Excludes GB II cable.	5,254.62	548.10
26 09 23 00-0231 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) .....6,814.02 Note: Excludes GB II cable.	6,814.02	548.10
26 09 23 00-0232 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2).....580.76 Note: Excludes GB II cable.	580.76	68.51
26 09 23 00-0233 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) .....660.01 Note: Excludes GB II cable.	660.01	68.51
26 09 23 00-0234 EA Wireless Manager (Encelium EN-WM-ZB-P3D).....1,721.79 Note: Includes white finish.	1,721.79	68.51
26 09 23 00-0235 EA Wireless Control Module (Encelium EN-WCM-ZB) .....248.12	248.12	34.26
26 09 23 00-0236 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR).....290.38	290.38	34.26
26 09 23 00-0237 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....291.43	291.43	34.26
26 09 23 00-0238 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR) .....301.40	301.40	34.26
26 09 23 00-0239 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0240 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0241 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0242 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0243 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0244 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....220.73	220.73	17.13
26 09 23 00-0245 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....485.68	485.68	68.51
26 09 23 00-0246 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) .....316.64	316.64	68.51
26 09 23 00-0247 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) .....316.64	316.64	68.51
26 09 23 00-0248 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) .....358.90	358.90	68.51
26 09 23 00-0249 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) .....358.90	358.90	68.51
26 09 23 00-0250 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0251 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0252 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0253 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0254 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0255 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....220.73 Note: Includes white finish.	220.73	17.13
26 09 23 00-0256 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....485.68	485.68	68.51
26 09 23 00-0257 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) .....213.87	213.87	17.13
26 09 23 00-0258 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....213.87	213.87	17.13
26 09 23 00-0259 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....213.87	213.87	17.13
26 09 23 00-0260 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....220.73	220.73	17.13
26 09 23 00-0261 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....485.68	485.68	68.51
26 09 23 00-0262 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) .....316.64	316.64	68.51
26 09 23 00-0263 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) .....316.64	316.64	68.51
26 09 23 00-0264 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) .....358.90	358.90	68.51
26 09 23 00-0265 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) .....358.90	358.90	68.51
26 09 23 00-0266 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0267 EA 3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0268 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0269 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) .....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0270 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH).....213.87 Note: Includes white finish.	213.87	17.13
26 09 23 00-0271 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....220.73	220.73	17.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0272 EA 315 MHz, Wireless Photocell (Encelium TAP-17C)	485.68	68.51
26 09 23 00-0273 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB)	161.32	68.51
26 09 23 00-0274 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit)	624.79	68.51
26 09 23 00-0275 Lighting Control Sensors <small>(26 09 23)</small>		
26 09 23 00-0276 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI)	330.05	30.83
26 09 23 00-0277 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI)	330.05	30.83
26 09 23 00-0278 EA Smart Multi-sensor (LG 9SD131VVDA.ALWB000).....	291.10	30.83
26 09 23 00-0279 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U)	90.01	20.55
26 09 23 00-0280 EA Clip for Performance Troffer (LG BKTR015122.BUAAWAA).....	8.48	
26 09 23 00-0281 EA Clip for Downlight (BKTCE015123.BUAAWAA).....	57.53	
26 09 23 00-0282 EA Clip for Tube (LG BKTTU015121.BUAAWAA).....	11.31	
26 09 23 00-0283 Radio Controlled Devices (Lutron) <small>(26 09 23)</small>		
26 09 23 00-0284 Tabletop Transmitters For Radio Controlled Devices <small>(26 09 23 00-0283)</small>		
26 09 23 00-0285 Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0286 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	422.40	20.55
26 09 23 00-0287 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	546.61	20.55
26 09 23 00-0288 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH)	686.34	20.55
26 09 23 00-0289 Dimmable Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0290 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH)	422.40	20.55
26 09 23 00-0291 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH)	500.03	20.55
26 09 23 00-0292 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH)	686.34	20.55
26 09 23 00-0293 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	422.40	20.55
26 09 23 00-0294 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	546.61	20.55
26 09 23 00-0295 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	686.34	20.55
26 09 23 00-0296 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0297 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH)	546.61	20.55
26 09 23 00-0298 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	686.34	20.55
26 09 23 00-0299 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	686.34	20.55
26 09 23 00-0300 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0301 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH)	422.40	20.55
26 09 23 00-0302 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	546.61	20.55
26 09 23 00-0303 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	500.03	20.55
26 09 23 00-0304 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	608.71	20.55
26 09 23 00-0305 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH)	546.61	20.55
26 09 23 00-0306 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	655.29	20.55
26 09 23 00-0307 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	546.61	20.55
26 09 23 00-0308 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		
26 09 23 00-0309 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	422.40	20.55
26 09 23 00-0310 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	546.61	20.55
26 09 23 00-0311 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH)	546.61	20.55
26 09 23 00-0312 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH)	686.34	20.55
26 09 23 00-0313 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH)	546.61	20.55
26 09 23 00-0314 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH)	686.34	20.55
26 09 23 00-0315 Output Switch Closure Controls, Tabletop Wireless Transmitter <small>(26 09 23 00-0284)</small>		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0316 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	422.40	20.55
26 09 23 00-0317 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	546.61	20.55
26 09 23 00-0318 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	686.34	20.55
26 09 23 00-0319 Accessories For Tabletop Wireless Transmitter (26 09 23 00-0284)		
26 09 23 00-0320 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	96.36	20.55
26 09 23 00-0321 Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0283)		
26 09 23 00-0322 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	391.35	20.55
26 09 23 00-0323 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	422.40	20.55
26 09 23 00-0324 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	422.40	20.55
26 09 23 00-0325 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	422.40	20.55
26 09 23 00-0326 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	422.40	20.55
26 09 23 00-0327 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	422.40	20.55
26 09 23 00-0328 Interfaces For Radio Controlled Devices (26 09 23 00-0283)		
26 09 23 00-0329 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	391.35	20.55
26 09 23 00-0330 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	391.35	20.55
26 09 23 00-0331 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	391.35	20.55
26 09 23 00-0332 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	785.70	20.55
26 09 23 00-0333 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	1,121.06	20.55
26 09 23 00-0334 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	1,121.06	20.55
26 09 23 00-0335 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0283)		
26 09 23 00-0336 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....	500.03	20.55
26 09 23 00-0337 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	562.13	20.55
26 09 23 00-0338 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	655.29	20.55
26 09 23 00-0339 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0283)		
26 09 23 00-0340 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....	732.92	20.55
26 09 23 00-0341 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	1,004.61	20.55
26 09 23 00-0342 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)		
26 09 23 00-0343 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0342)		
26 09 23 00-0344 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....	126.29	27.40
26 09 23 00-0345 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	146.06	27.40
26 09 23 00-0346 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	219.75	27.40
26 09 23 00-0347 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....	93.30	27.40
26 09 23 00-0348 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	110.57	27.40
26 09 23 00-0349 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....	100.55	27.40
26 09 23 00-0350 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....	118.18	27.40
26 09 23 00-0351 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0342)		
26 09 23 00-0352 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....	121.72	27.40
26 09 23 00-0353 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	130.85	27.40
26 09 23 00-0354 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	153.66	27.40
26 09 23 00-0355 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	167.36	34.26
26 09 23 00-0356 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	198.52	27.40
26 09 23 00-0357 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	75.72	27.40
26 09 23 00-0358 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	88.27	27.40
26 09 23 00-0359 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	80.29	27.40
26 09 23 00-0360 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	92.83	27.40



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 09 23 00-0361	EA		6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	232.79	47.96
26 09 23 00-0362	Removal And Reinstallation Of Occupancy Sensors <small>(26 09 23)</small>					
	26 09 23 00-0363	EA		Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor Note: Includes storing and cleaning.	92.49	
	26 09 23 00-0364	EA		Removal And Reinstallation Of Wall Mounted Occupancy Sensor Note: Includes storing and cleaning.	61.66	
26 09 23 00-0365	Occupancy Sensors (Watt Stopper) <small>(26 09 23)</small>					
	Note: Includes testing of new devices and certification.					
26 09 23 00-0366	Occupancy Sensors <small>(26 09 23 00-0365)</small>					
	Note: Exclude boxes.					
26 09 23 00-0367	Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>					
26 09 23 00-0368	Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>					
	26 09 23 00-0369	EA		Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.44 8.22	13.71
	26 09 23 00-0370	EA		Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93 8.22	13.71
26 09 23 00-0371	Passive Infrared, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>					
	26 09 23 00-0372	EA		Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.59 8.22	13.71
	26 09 23 00-0373	EA		Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.68 8.22	13.71
	26 09 23 00-0374	EA		Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.71 8.22	13.71
	26 09 23 00-0375	EA		Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	116.61 8.22	13.71
	26 09 23 00-0376	EA		Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.39 8.22	13.71
26 09 23 00-0377	Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors <small>(26 09 23 00-0367)</small>					
	26 09 23 00-0378	EA		Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	164.62 8.22	13.71
	26 09 23 00-0379	EA		Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	176.95 8.22	13.71
26 09 23 00-0380	Wall Switch Mounted Occupancy Sensor Accessories <small>(26 09 23 00-0367)</small>					
	26 09 23 00-0381	EA		Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	8.03	3.42
	26 09 23 00-0382	EA		One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	9.01	3.42
	26 09 23 00-0383	EA		Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP)	9.01	3.42
26 09 23 00-0384	Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>					
26 09 23 00-0385	Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>					
26 09 23 00-0386	25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>					
	26 09 23 00-0387	EA		500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	159.25	30.83
	26 09 23 00-0388	EA		1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	180.45	30.83
	26 09 23 00-0389	EA		2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	201.82	30.83
	26 09 23 00-0390	EA		90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H)	199.89	30.83
26 09 23 00-0391	32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>					
	26 09 23 00-0392	EA		600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	171.80	30.83
	26 09 23 00-0393	EA		1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	193.31	30.83
	26 09 23 00-0394	EA		2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	213.68	30.83
	26 09 23 00-0395	EA		90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	217.12	30.83
	26 09 23 00-0396	EA		600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	184.65	30.83
	26 09 23 00-0397	EA		1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	206.70	30.83
	26 09 23 00-0398	EA		2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	228.65	30.83
	26 09 23 00-0399	EA		90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	234.98	30.83
26 09 23 00-0400	40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0385)</small>					

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0401 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	178.01	30.83
26 09 23 00-0402 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	203.71	30.83
26 09 23 00-0403 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	225.22	30.83
26 09 23 00-0404 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	168.55	30.83
26 09 23 00-0405 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	200.93	30.83
26 09 23 00-0406 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	211.42	30.83
26 09 23 00-0407 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	179.35	30.83
26 09 23 00-0408 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	197.99	30.83
26 09 23 00-0409 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	221.02	30.83
26 09 23 00-0410 Passive Infrared, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0411 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	134.50	30.83
26 09 23 00-0412 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	137.00	30.83
26 09 23 00-0413 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	142.94	30.83
26 09 23 00-0414 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	158.85	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0415 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	160.78	30.83
26 09 23 00-0416 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	169.11	30.83
26 09 23 00-0417 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	182.43	30.83
26 09 23 00-0418 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors <small>(26 09 23 00-0384)</small>		
26 09 23 00-0419 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	213.49	30.83
26 09 23 00-0420 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	241.69	30.83
26 09 23 00-0421 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	207.51	30.83
26 09 23 00-0422 Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0366)</small>		
26 09 23 00-0423 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0424 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	258.59	30.83
26 09 23 00-0425 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	258.59	30.83
26 09 23 00-0426 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors <small>(26 09 23 00-0422)</small>		
26 09 23 00-0427 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	241.69	30.83
26 09 23 00-0428 Occupancy Sensor Power Packs <small>(26 09 23 00-0365)</small>		
26 09 23 00-0429 Single Voltage, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0430 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	94.23	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0431 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	87.07	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0432 Auxiliary, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0433 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	81.17	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0434 Universal Voltage, Power Packs For Occupancy Sensors <small>(26 09 23 00-0428)</small>		
26 09 23 00-0435 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	102.77	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0436 Form C, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0437 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	94.56	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0438 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	94.62	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0439 Two Relay, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0440 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	115.32	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0441 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	116.74	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0442 Occupancy Sensor Power Supplies <small>(26 09 23 00-0428)</small>		
26 09 23 00-0443 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....	113.08	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0444 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	220.26	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0445 Intelligent, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0446 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	286.83	27.40
26 09 23 00-0447 DIN Rail Mounted, Occupancy Sensor Power Packs <small>(26 09 23 00-0428)</small>		
26 09 23 00-0448 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	101.95	27.40
26 09 23 00-0449 Occupancy Sensor Accessories <small>(26 09 23 00-0365)</small>		
26 09 23 00-0450 Protective Cages For Occupancy Sensors <small>(26 09 23 00-0449)</small>		
26 09 23 00-0451 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	55.71	10.27
26 09 23 00-0452 Mounting Brackets For Occupancy Sensors <small>(26 09 23 00-0449)</small>		
26 09 23 00-0453 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	48.30	17.13
Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.		
26 09 23 00-0454 Occupancy/Lighting Logger <small>(26 09 23 00-0449)</small>		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0455 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	404.26	58.24
26 09 23 00-0456 Digital Time Light Switches <small>(26 09 23 00-0365)</small>		
26 09 23 00-0457 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	87.88	13.71
26 09 23 00-0458 Occupancy Sensors (Sensor Switch) <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
26 09 23 00-0459 Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0458)</small>		
Note: Exclude boxes		
26 09 23 00-0460 Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0459)</small>		
26 09 23 00-0461 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
26 09 23 00-0462 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	182.66	13.71
26 09 23 00-0463 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL).....	130.90	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0464 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD).....	125.21	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0465 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	125.21	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0466 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P).....	156.78	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0467 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	156.78	13.71
26 09 23 00-0468 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	189.14	13.71
26 09 23 00-0469 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD).....	156.78	13.71
26 09 23 00-0470 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) <small>(26 09 23 00-0460)</small>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0471 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	234.41	13.71
26 09 23 00-0472 EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL).....	182.66	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0473 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT).....	178.79	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0474 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA).....	178.79	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0475 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P).....	208.53	13.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 09 23 00-0476 EA Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	208.53	13.71

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0477 EA 2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....	224.06	13.71
26 09 23 00-0478 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0460)		
26 09 23 00-0479 EA One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	17.20	3.42
26 09 23 00-0480 EA One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	17.20	3.42
26 09 23 00-0481 EA Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3).....	32.73	3.42
26 09 23 00-0482 EA Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	32.73	3.42
26 09 23 00-0483 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0484 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0483)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0485 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9).....	216.92	30.83
26 09 23 00-0486 EA Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9).....	216.92	30.83
26 09 23 00-0487 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9).....	216.92	30.83
26 09 23 00-0488 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9).....	229.85	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0489 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9).....	229.85	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0490 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9).....	188.45	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0491 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P).....	281.61	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0492 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	281.61	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0493 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	240.21	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0494 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	216.92	30.83
26 09 23 00-0495 EA Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	216.92	30.83
26 09 23 00-0496 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	216.92	30.83
26 09 23 00-0497 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	229.85	30.83
26 09 23 00-0498 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	229.85	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0499 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	188.45	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0500 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	281.61	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0501 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	281.61	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0502 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	240.21	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0503 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0483)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0504 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	268.67	30.83
26 09 23 00-0505 EA Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	268.67	30.83
26 09 23 00-0506 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	268.67	30.83
26 09 23 00-0507 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0508 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	255.73	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	
26 09 23 00-0509 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	214.33	30.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0510 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	307.48	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0511 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	307.48	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0512 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	266.08	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0513 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	268.67	30.83
26 09 23 00-0514 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	268.67	30.83
26 09 23 00-0515 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	268.67	30.83
26 09 23 00-0516 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0517 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0518 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	214.33	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0519 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	307.48	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0520 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	307.48	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0521 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	266.08	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0522 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0523 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0522)		
26 09 23 00-0524 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	216.92	30.83
26 09 23 00-0525 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	242.79	30.83
26 09 23 00-0526 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	294.55	30.83
26 09 23 00-0527 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0528 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	333.36	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0529 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0522)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0530 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	268.67	30.83
26 09 23 00-0531 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	307.48	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0532 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	359.24	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0533 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0459)		
26 09 23 00-0534 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0533)		
26 09 23 00-0535 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	216.92	30.83
26 09 23 00-0536 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	216.92	30.83
26 09 23 00-0537 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	216.92	30.83
26 09 23 00-0538 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0539 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0540 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	188.45	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0541 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0542 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0543 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	240.21	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0544 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0545 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0546 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0547 EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0548 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0549 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	206.57	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0550 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	242.79	30.83
26 09 23 00-0551 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	242.79	30.83
26 09 23 00-0552 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	242.79	30.83
26 09 23 00-0553 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0554 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0555 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0556 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	258.32	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0557 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	258.32	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0558 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0559 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0560 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0561 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	219.50	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	242.79	30.83
26 09 23 00-0563 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	242.79	30.83
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0565 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	291.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0566 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	281.61	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0567 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0568 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	255.73	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0569 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0456)		
26 09 23 00-0570 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	127.26	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0571 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	179.02	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0572 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	101.39	27.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0573	EA			2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20) 93.62	93.62	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0574	EA			20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20) 119.50	119.50	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0575	EA			120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH) 184.19	184.19	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0576	EA			120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR) 184.19	184.19	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0577	EA			120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM) 184.19	184.19	27.40
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.44	
26 09 23 00-0578				Daylighting Control (Sensor Switch) <small>(26 09 23 00-0458)</small>		
26 09 23 00-0579	EA			Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC) 191.04	191.04	30.83
26 09 23 00-0580	EA			Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC) 191.04	191.04	30.83
26 09 23 00-0581	EA			Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC) 191.04	191.04	30.83
26 09 23 00-0582	EA			Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0583	EA			Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0584	EA			Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0585	EA			Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC) 191.04	191.04	30.83
26 09 23 00-0586	EA			Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC) 191.04	191.04	30.83
26 09 23 00-0587	EA			Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC) 191.04	191.04	30.83
26 09 23 00-0588	EA			Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0589	EA			Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0590	EA			Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC) 191.04	191.04	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0591	EA			Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC) 268.67	268.67	30.83
26 09 23 00-0592	EA			Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC) 268.67	268.67	30.83
26 09 23 00-0593	EA			Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC) 268.67	268.67	30.83
26 09 23 00-0594	EA			Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC) 268.67	268.67	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0595	EA			Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC) 268.67	268.67	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0596	EA			Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC) 268.67	268.67	30.83
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.50	
26 09 23 00-0597				Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23)</small>		
				Note: Includes testing of new devices and certification.		
26 09 23 00-0598				Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0597)</small>		
				Note: Excludes boxes.		
26 09 23 00-0599				Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0600				Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0599)</small>		
				Note: Includes passive infrared and microphonics detection		
26 09 23 00-0601	EA			Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX) 280.09	280.09	13.71
26 09 23 00-0602				360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0598)</small>		
26 09 23 00-0603				Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
				Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0604	EA			Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9) 339.34	339.34	30.83
26 09 23 00-0605	EA			Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10) 339.34	339.34	30.83
26 09 23 00-0606	EA			Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC) 339.34	339.34	30.83
26 09 23 00-0607				Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0602)</small>		
				Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0608	EA			Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9) 394.87	394.87	30.83
26 09 23 00-0609	EA			Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10) 394.87	394.87	30.83

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0610 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	408.73	30.83
26 09 23 00-0611 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0612 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0611) Note: Includes passive infrared and microphonics detection		
26 09 23 00-0613 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	394.87	30.83
26 09 23 00-0614 High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0598)		
26 09 23 00-0615 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0614)		
26 09 23 00-0616 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	339.34	30.83
26 09 23 00-0617 Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0597)		
26 09 23 00-0618 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	124.22	27.40
26 09 23 00-0619 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	152.02	27.40
26 09 23 00-0620 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	199.20	27.40
26 09 23 00-0621 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	199.20	27.40
26 09 23 00-0622 Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0597)		
26 09 23 00-0623 EA RS232 AV Integrator (Sensor Switch nLight® nIO X)	408.73	30.83
26 09 23 00-0624 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	333.57	30.83
26 09 23 00-0625 Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0597)		
26 09 23 00-0626 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	283.80	30.83
26 09 23 00-0627 Controls (Sensor Switch nLight®) (26 09 23 00-0597)		
26 09 23 00-0628 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	192.17	30.83
26 09 23 00-0629 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB)	269.94	30.83
26 09 23 00-0630 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	603.13	30.83
26 09 23 00-0631 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	603.13	30.83
26 09 23 00-0632 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,213.65	30.83
26 09 23 00-0633 Occupancy Sensors (Lutron) (26 09 23) Note: Includes testing of new devices and certification.		
26 09 23 00-0634 Wireless Occupancy Sensors (26 09 23 00-0633)		
26 09 23 00-0635 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	147.19	30.83
26 09 23 00-0636 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	152.90	30.83
26 09 23 00-0637 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	148.55	30.83
26 09 23 00-0638 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	156.15	30.83
26 09 23 00-0639 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	150.25	30.83
26 09 23 00-0640 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	156.15	30.83
26 09 23 00-0641 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	147.19	30.83
26 09 23 00-0642 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	150.25	30.83
26 09 23 00-0643 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	148.55	30.83
26 09 23 00-0644 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	220.12	30.83
26 09 23 00-0645 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	233.75	30.83
26 09 23 00-0646 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	264.42	30.83
26 09 23 00-0647 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	278.06	30.83
26 09 23 00-0648 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	284.87	30.83
26 09 23 00-0649 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	298.51	30.83
26 09 23 00-0650 EA Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH).....	177.18	30.83
26 09 23 00-0651 EA Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH).....	186.04	30.83
26 09 23 00-0652 EA Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	215.01	30.83



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0653	EA			Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	237.16	30.83
26 09 23 00-0654	EA			Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	254.20	30.83
26 09 23 00-0655	EA			Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	221.82	30.83
26 09 23 00-0656	EA			Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH)	205.23	30.83
26 09 23 00-0657	EA			Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH)	174.44	30.83
26 09 23 00-0658	EA			Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH)	210.74	30.83
26 09 23 00-0659	EA			Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C)	252.30	30.83
26 09 23 00-0660	EA			Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H)	266.74	30.83
26 09 23 00-0661	EA			Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	266.74	30.83
26 09 23 00-0662	EA			Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	266.74	30.83
26 09 23 00-0663	EA			Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V)	279.97	30.83
26 09 23 00-0664	EA			Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W)	451.10	44.53
26 09 23 00-0665 Nodes And Modules <small>(26 09 23 00-0633)</small>						
26 09 23 00-0666	EA			0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C)	228.64	30.83
26 09 23 00-0667	EA			0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J)	228.64	30.83
26 09 23 00-0668	EA			4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	284.87	30.83
26 09 23 00-0669	EA			4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	284.87	30.83
26 09 23 00-0670	EA			120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH)	361.59	34.26
26 09 23 00-0671	EA			120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH)	361.59	34.26
26 09 23 00-0672	EA			120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	434.86	34.26
26 09 23 00-0673	EA			120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	445.09	34.26
26 09 23 00-0674	EA			120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH)	545.63	34.26
26 09 23 00-0675	EA			120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	578.00	34.26
26 09 23 00-0676	EA			120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH)	610.38	34.26
26 09 23 00-0677	EA			1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2)	1,630.48	54.81
26 09 23 00-0678	EA			2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4)	1,605.84	61.66
26 09 23 00-0679	EA			3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6)	2,343.77	68.51
26 09 23 00-0680 Other Accessories <small>(26 09 23 00-0633)</small>						
26 09 23 00-0681	EA			Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	42.92	
26 09 23 00-0682	EA			Pico® Wireless Control (Lutron® PJ)	45.06	
26 09 23 00-0683	EA			4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	132.98	
26 09 23 00-0684	EA			8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	250.56	
26 09 23 00-0685	EA			4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL)	275.04	30.83
26 09 23 00-0686	EA			seeTouch® QS Wallstation (Lutron® QSWS2)	344.11	30.83
26 09 23 00-0687	EA			seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2)	344.11	30.83
26 09 23 00-0688	EA			120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	555.85	34.26
26 09 23 00-0689	EA			120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	755.22	34.26
26 09 23 00-0690	EA			Control Interface (Lutron® QSE-CI-NWK-E)	903.44	30.83
26 09 23 00-0691	EA			1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S)	896.64	30.83
26 09 23 00-0692	EA			2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	1,194.85	30.83
26 09 23 00-0693	MLF			5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S)	2,426.78	957.79
26 09 23 00-0694	MLF			5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S)	3,108.39	957.79
26 09 23 00-0695 Fixture Mounted Occupancy Sensors (Leviton) <small>(26 09 23)</small>						
Note: Includes testing of new devices and certification.						
26 09 23 00-0696	EA			120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW)	141.73	30.83
26 09 23 00-0697	EA			480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W)	126.06	30.83
26 09 23 00-0698	EA			120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW)	154.68	30.83
26 09 23 00-0699	EA			480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	126.06	30.83
26 09 23 00-0700	EA			120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT)	189.98	13.69
26 09 23 00-0701 Wireless Enabled Communication Devices For Streetlights <small>(26 09 23)</small>						
Note: Includes testing of new devices and certification.						
26 09 23 00-0702 Wireless Enabled Communication Nodes For Streetlights (Roam®) <small>(26 09 23 00-0701)</small>						
26 09 23 00-0703	EA			120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1)	287.53	
26 09 23 00-0704	EA			480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1)	398.60	
26 09 23 00-0705 Wireless Enabled Communication Devices For Streetlights (Roam®) <small>(26 09 23 00-0701)</small>						
26 09 23 00-0706	EA			Retrofit Receptacle Kit (Roam® DUR103)	57.07	
Note: For adapting light fixtures for use with a NEMA locking type photocontrol.						
26 09 23 00-0707	EA			Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	11,257.48	75.22

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0708 Counter Mounted Consoles <small>(26 09 23)</small>		
26 09 23 00-0709 EA 20" x 24" Type 12, Oil Tight Consoles, Counter Mounted (Schaefer's SPCL-20C24).....	638.82	171.03
26 09 23 00-0710 Lighting Console And Stations <small>(26 09 23)</small>		
26 09 23 00-0711 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40).....	4,055.01	171.03
For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	85.86	
For Lighting Console Case (ETC ColorSourcePart 11866), Add	915.47	
26 09 23 00-0712 EA 10 Preset, Lighting Control Station (Doug Fleener PRE10-A2)	2,792.59	102.62
26 09 23 00-0713 Theatre Lighting Console <small>(26 09 23)</small>		
26 09 23 00-0714 EA Theatre Lighting Console (ETC Colorsources 20)	2,955.62	205.24
26 09 23 00-0715 Emergency Lighting Controls <small>(26 09 23)</small>		
26 09 23 00-0716 Emergency Lighting Control Units (Watt Stopper ELCU) <small>(26 09 23 00-0715)</small>		
Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0717 EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100)	204.36	34.26
26 09 23 00-0718 EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	204.36	34.26
26 09 23 00-0719 Emergency Shunt Relays (Lighting Control & Design GR 2001™) <small>(26 09 23 00-0715)</small>		
Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0720 EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	346.77	47.96
26 09 23 00-0721 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™)	467.85	54.81
26 09 23 00-0722 EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual)	624.99	61.66
Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0723 Photocells <small>(26 09 23)</small>		
26 09 23 00-0724 EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	96.56	
26 09 23 00-0725 EA Wired Photocell For Lighting Fixtures (Intermac® K4021C)	236.73	
26 09 23 00-0726 Outdoor Lighting Motion Sensors <small>(26 09 23)</small>		
26 09 23 00-0727 EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000)	122.44	34.26
26 09 23 00-0728 EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	132.21	34.26
26 09 23 00-0729 EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR).....	495.24	34.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.55	
26 09 23 00-0730 Street Light Controls <small>(26 09 23)</small>		
26 09 23 00-0731 Photo Controls <small>(26 09 23 00-0730)</small>		
26 09 23 00-0732 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014.....	105.38	
26 09 23 00-0733 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	119.07	
26 09 23 00-0734 Connector Node <small>(26 09 23 00-0730)</small>		
26 09 23 00-0735 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	445.70	2.87

26 10 Medium-Voltage Electrical Distribution (26)**26 11 Substations** (26 10)**26 11 13 Primary Unit Substations** (26 11)**26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section** (26 11 13)**26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard"** (26 11 13 00-0001)

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment

26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	58,467.81	2,349.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,433.63	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	71,742.55	2,970.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,792.04	
26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	81,138.12	2,970.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,792.04	



Electrical	26	26
Medium-Voltage Electrical Distribution	26 10	
Substations	26 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93,214.34 1,911.51	2,970.90
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105,773.63 2,205.59	3,661.80
26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers <small>(26 11 13 00-0001)</small>		
26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179	1,668.99	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.05	
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N	559.72	181.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.74	
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67	823.79	181.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.03	
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	652.40	181.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.74	
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87	2,440.84	612.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	369.89	
26 11 13 00-0014 "Switchyard", Substation Transformer Section <small>(26 11 13)</small>		
Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
26 11 13 00-0015 14.4 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	34,023.70	2,349.08
<i>For 50 Hz Operation, Add</i>	3,509.39	
<i>For Forced Air Cooling, Add</i>	3,509.39	
<i>For External Control Panel, Add</i>	877.35	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	292.45	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,462.25	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	3,655.62	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,386.74	
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	38,989.76	2,943.26
<i>For 50 Hz Operation, Add</i>	3,961.96	
<i>For Forced Air Cooling, Add</i>	3,961.96	
<i>For External Control Panel, Add</i>	990.49	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	330.16	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,650.82	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,127.04	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,952.45	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	59,870.55	4,145.43
<i>For 50 Hz Operation, Add</i>	6,165.00	
<i>For Forced Air Cooling, Add</i>	6,165.00	
<i>For External Control Panel, Add</i>	1,541.25	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	513.75	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	2,568.75	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	6,421.87	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	7,706.24	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	86,309.27	4,892.63
<i>For 50 Hz Operation, Add</i>	9,090.79	
<i>For Forced Air Cooling, Add</i>	9,090.79	
<i>For External Control Panel, Add</i>	2,272.70	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	757.57	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	3,787.83	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	9,469.57	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	11,363.48	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	106,362.83	6,331.63
<i>For 50 Hz Operation, Add</i>	11,180.63	
<i>For Forced Air Cooling, Add</i>	11,180.63	
<i>For External Control Panel, Add</i>	2,795.16	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	931.72	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	4,658.60	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	11,646.49	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	13,975.79	
26 11 13 00-0021 23 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	38,143.62	3,178.17
<i>For 50 Hz Operation, Add</i>	3,860.42	
<i>For External Control Panel, Add</i>	965.10	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	321.70	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,608.51	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,021.27	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	4,825.52	
<i>For Forced Air Cooling, Add</i>	2,573.61	
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	43,616.28	3,178.17
<i>For 50 Hz Operation, Add</i>	4,368.37	
<i>For External Control Panel, Add</i>	1,092.09	
<i>For Internally Mounted Current Transformers And Linear Couplers, Add</i>	364.03	
<i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i>	1,820.15	
<i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i>	4,550.38	
<i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i>	5,460.46	
<i>For Forced Air Cooling, Add</i>	2,912.24	

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	69,640.17	4,698.16
For 50 Hz Operation, Add	7,209.92	
For External Control Panel, Add	1,802.48	
For Internally Mounted Current Transformers And Linear Couplers, Add	600.83	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,004.13	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,510.33	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,012.39	
For Forced Air Cooling, Add	4,806.61	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	93,301.34	6,331.63
For 50 Hz Operation, Add	9,613.25	
For External Control Panel, Add	2,403.31	
For Internally Mounted Current Transformers And Linear Couplers, Add	801.10	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,005.52	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,013.80	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,016.56	
For Forced Air Cooling, Add	6,408.83	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	115,070.52	6,331.63
For 50 Hz Operation, Add	12,225.55	
For External Control Panel, Add	3,056.39	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,018.80	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,093.98	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,734.95	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,281.94	
For Forced Air Cooling, Add	8,150.37	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	47,849.18	3,799.98
For 50 Hz Operation, Add	4,876.31	
For External Control Panel, Add	1,219.08	
For Internally Mounted Current Transformers And Linear Couplers, Add	406.36	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,031.80	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,079.49	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,095.39	
For Forced Air Cooling, Add	3,250.88	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	57,790.41	5,941.79
For 50 Hz Operation, Add	5,892.21	
For External Control Panel, Add	1,473.05	
For Internally Mounted Current Transformers And Linear Couplers, Add	491.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,455.09	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,137.72	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,365.26	
For Forced Air Cooling, Add	3,928.14	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	79,866.91	5,941.79
For 50 Hz Operation, Add	8,150.40	
For External Control Panel, Add	2,037.60	
For Internally Mounted Current Transformers And Linear Couplers, Add	679.20	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,396.00	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,490.00	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,188.00	
For Forced Air Cooling, Add	5,433.60	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	102,008.96	6,187.74
For 50 Hz Operation, Add	10,658.17	
For External Control Panel, Add	2,664.54	
For Internally Mounted Current Transformers And Linear Couplers, Add	888.18	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,440.90	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,102.26	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,322.71	
For Forced Air Cooling, Add	7,105.44	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	175,363.82	7,914.54
For 50 Hz Operation, Add	19,017.54	
For External Control Panel, Add	4,754.38	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,584.79	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,923.97	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,809.93	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,771.92	
For Forced Air Cooling, Add	12,678.36	
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	72,972.26	4,421.80
For 50 Hz Operation, Add	7,714.03	
For External Control Panel, Add	1,928.51	
For Internally Mounted Current Transformers And Linear Couplers, Add	642.84	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,214.18	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,035.45	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,642.54	
For Forced Air Cooling, Add	5,142.69	
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled.....	82,436.83	4,421.80
For 50 Hz Operation, Add	8,745.51	
For External Control Panel, Add	2,186.38	
For Internally Mounted Current Transformers And Linear Couplers, Add	728.79	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,643.96	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,109.91	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,931.89	
For Forced Air Cooling, Add	5,830.34	



Electrical	26	26
Medium-Voltage Electrical Distribution	26 10	
Substations	26 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	113,974.86 12,243.35 3,060.84 1,020.28 5,101.40 12,753.49 15,304.19 8,162.24	5,941.79
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	139,482.90 14,711.82 3,677.96 1,225.99 6,129.93 15,324.82 18,389.78 9,807.88	7,914.54
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	197,186.94 21,636.31 5,409.08 1,803.03 9,015.13 22,537.82 27,045.39 14,424.21	7,914.54
26 11 13 00-0039 69 KV Nominal Primary <small>(26 11 13 00-0014)</small>		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	104,540.07 11,397.90 2,849.48 949.83 4,749.13 11,872.82 14,247.38 7,598.60	4,698.16
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	120,233.26 12,994.36 3,248.59 1,082.86 5,414.32 13,535.79 16,242.95 8,662.91	5,941.79
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	164,473.79 18,303.22 4,575.81 1,525.27 7,626.34 19,065.86 22,879.03 12,202.15	5,941.79
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	174,730.66 18,941.56 4,735.39 1,578.46 7,892.32 19,730.79 23,676.95 12,627.70	7,914.54
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled <i>For 50 Hz Operation, Add</i> <i>For External Control Panel, Add</i> <i>For Internally Mounted Current Transformers And Linear Couplers, Add</i> <i>For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add</i> <i>For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add</i> <i>For Forced Air Cooling, Add</i>	228,016.35 25,335.84 6,333.96 2,111.32 10,556.60 26,391.50 31,669.80 16,890.56	7,914.54
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV <small>(26 11 13)</small>		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,087.45	1,139.30
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	68,129.18	1,139.30
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	77,608.42	1,415.20
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	72,704.44	1,701.70
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	81,831.76	1,701.70
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	93,370.37	1,977.00
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	96,332.81	2,258.73
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	107,696.84	2,258.73
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	112,940.57	2,536.56
26 11 16 Secondary Unit Substations <small>(26 11)</small>		
26 11 16 11 Secondary Unit Substations with Switchgear Secondary <small>(26 11 16)</small>		
26 11 16 11-0001 Substation Primary Incoming Section <small>(26 11 16 11)</small>		

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0002 Manual Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	33,076.92	1,673.02
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	38,048.22	1,673.02
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches <small>(26 11 16 11-0001)</small> Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	46,659.77	1,673.02
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	49,895.13	1,673.02
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches <small>(26 11 16 11-0001)</small>		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section.....	7,068.59	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section.....	688.04	
26 11 16 11-0011 Oil Filled Substation Transformers <small>(26 11 16 11)</small> Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	13,759.42	1,036.36
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	818.07	
For Control Power Transformer On Fans And Auxiliary, Add	350.60	
For Internal Mounted Current Transformer And Linear Coupler, Add	116.87	
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,942.90	1,243.63
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,221.89	
For Control Power Transformer On Fans And Auxiliary, Add	523.67	
For Internal Mounted Current Transformer And Linear Coupler, Add	174.56	
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	22,547.55	1,381.81
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,384.87	
For Control Power Transformer On Fans And Auxiliary, Add	593.52	
For Internal Mounted Current Transformer And Linear Coupler, Add	197.84	
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	26,767.67	1,727.26
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,631.92	
For Control Power Transformer On Fans And Auxiliary, Add	699.39	
For Internal Mounted Current Transformer And Linear Coupler, Add	233.13	
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	30,048.36	2,141.81
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,803.53	
For Control Power Transformer On Fans And Auxiliary, Add	772.94	
For Internal Mounted Current Transformer And Linear Coupler, Add	257.65	
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	32,448.73	2,625.45
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,903.85	
For Control Power Transformer On Fans And Auxiliary, Add	815.94	
For Internal Mounted Current Transformer And Linear Coupler, Add	271.98	
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	38,078.12	3,178.17
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,220.52	
For Control Power Transformer On Fans And Auxiliary, Add	951.65	
For Internal Mounted Current Transformer And Linear Coupler, Add	317.22	
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	40,636.71	3,454.54
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,360.94	
For Control Power Transformer On Fans And Auxiliary, Add	1,011.83	
For Internal Mounted Current Transformer And Linear Coupler, Add	337.28	
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	45,352.35	3,799.98
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,642.67	
For Control Power Transformer On Fans And Auxiliary, Add	1,132.57	
For Internal Mounted Current Transformer And Linear Coupler, Add	377.52	
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	52,281.28	4,214.53
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,069.66	
For Control Power Transformer On Fans And Auxiliary, Add	1,315.57	
For Internal Mounted Current Transformer And Linear Coupler, Add	438.52	
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	57,377.59	4,594.53
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,373.20	
For Control Power Transformer On Fans And Auxiliary, Add	1,445.66	
For Internal Mounted Current Transformer And Linear Coupler, Add	481.89	
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ <small>(26 11 16 11-0011)</small>		
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	13,176.38	1,036.36
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	777.26	
For Control Power Transformer On Fans And Auxiliary, Add	333.11	
For Internal Mounted Current Transformer And Linear Coupler, Add	111.04	
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	19,339.30	1,036.36
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	1,208.66	
For Control Power Transformer On Fans And Auxiliary, Add	518.00	
For Internal Mounted Current Transformer And Linear Coupler, Add	172.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	22,534.64 1,383.97 593.13 197.71	1,381.81
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	26,789.86 1,633.47 700.06 233.35	1,727.26
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	32,313.89 1,962.12 840.91 280.30	2,141.81
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	35,269.72 2,101.32 900.57 300.19	2,625.45
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	39,380.74 2,311.71 990.73 330.24	3,178.17
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	42,880.60 2,518.01 1,079.15 359.72	3,454.54
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	48,254.04 2,845.78 1,219.62 406.54	3,799.98
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)		
26 11 16 11-0035 EA Sudden Pressure Relay	3,542.19	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV)	7,032.45	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole)	4,630.60	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	25,697.51	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	24,042.58	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011)		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	4,275.05	1,233.98
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	5,000.82	1,422.80
26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	23,306.34 12,657.26 -527.39 4,862.09	1,105.45
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	23,444.52 12,657.26 -527.39 4,875.90	1,174.54
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	24,133.85 12,822.13 -534.26 4,977.81	1,381.81
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	26,632.26 14,155.36 -589.81 5,494.30	1,520.00
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	29,668.84 15,645.67 -651.90 6,096.02	1,796.36
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	34,364.92 18,131.69 -755.49 7,062.83	2,072.72
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	39,979.96 21,003.26 -875.14 8,198.65	2,487.27
<i>For Gas Filled Transformers, Add</i>		
<i>For Single Phase Transformers, Deduct</i>		
<i>For Dry Type Unit, Add</i>		

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 11	Substations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	47,079.85	2,763.63
For Gas Filled Transformers, Add	24,931.56	
For Single Phase Transformers, Deduct	-1,038.82	
For Dry Type Unit, Add	9,694.30	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	60,327.20	2,901.81
For Gas Filled Transformers, Add	32,714.15	
For Single Phase Transformers, Deduct	-1,363.09	
For Dry Type Unit, Add	12,575.55	
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small>		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	22,557.72	1,105.45
For Gas Filled Transformers, Add	12,208.09	
For Single Phase Transformers, Deduct	-508.67	
For Dry Type Unit, Add	4,697.39	
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	23,444.52	1,174.54
For Gas Filled Transformers, Add	12,657.26	
For Single Phase Transformers, Deduct	-527.39	
For Dry Type Unit, Add	4,875.90	
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	24,133.85	1,381.81
For Gas Filled Transformers, Add	12,822.13	
For Single Phase Transformers, Deduct	-534.26	
For Dry Type Unit, Add	4,977.81	
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	26,632.26	1,520.00
For Gas Filled Transformers, Add	14,155.36	
For Single Phase Transformers, Deduct	-589.81	
For Dry Type Unit, Add	5,494.30	
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	29,668.84	1,796.36
For Gas Filled Transformers, Add	15,645.67	
For Single Phase Transformers, Deduct	-651.90	
For Dry Type Unit, Add	6,096.02	
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	34,364.92	2,072.72
For Gas Filled Transformers, Add	18,131.69	
For Single Phase Transformers, Deduct	-755.49	
For Dry Type Unit, Add	7,062.83	
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	39,979.96	2,487.27
For Gas Filled Transformers, Add	21,003.26	
For Single Phase Transformers, Deduct	-875.14	
For Dry Type Unit, Add	8,198.65	
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	47,079.85	2,763.63
For Gas Filled Transformers, Add	24,931.56	
For Single Phase Transformers, Deduct	-1,038.82	
For Dry Type Unit, Add	9,694.30	
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	60,327.20	2,901.81
For Gas Filled Transformers, Add	32,714.15	
For Single Phase Transformers, Deduct	-1,363.09	
For Dry Type Unit, Add	12,575.55	
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	66,068.90	3,039.99
For Gas Filled Transformers, Add	35,993.36	
For Single Phase Transformers, Deduct	-1,499.72	
For Dry Type Unit, Add	13,805.56	
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	73,522.05	3,178.17
For Gas Filled Transformers, Add	40,299.43	
For Single Phase Transformers, Deduct	-1,679.14	
For Dry Type Unit, Add	15,412.09	
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	84,391.56	3,316.35
For Gas Filled Transformers, Add	46,655.32	
For Single Phase Transformers, Deduct	-1,943.97	
For Dry Type Unit, Add	17,770.22	
26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	25,131.87	1,243.63
For Gas Filled Transformers, Add	13,586.76	
For Single Phase Transformers, Deduct	-566.12	
For Dry Type Unit, Add	5,230.54	
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	26,014.34	1,312.72
For Gas Filled Transformers, Add	14,033.33	
For Single Phase Transformers, Deduct	-584.72	
For Dry Type Unit, Add	5,408.10	
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	27,954.24	1,520.00
For Gas Filled Transformers, Add	14,948.55	
For Single Phase Transformers, Deduct	-622.86	
For Dry Type Unit, Add	5,785.13	
26 11 16 11-0077 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	29,572.05	1,658.18
For Gas Filled Transformers, Add	15,753.42	
For Single Phase Transformers, Deduct	-656.39	
For Dry Type Unit, Add	6,107.89	
26 11 16 11-0078 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	33,768.34	1,934.54
For Gas Filled Transformers, Add	17,939.56	
For Single Phase Transformers, Deduct	-747.48	
For Dry Type Unit, Add	6,964.75	



Electrical	26
Medium-Voltage Electrical Distribution	26 10
Substations	26 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0079 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	37,495.12 19,843.99 -826.83 7,718.31	2,210.90
26 11 16 11-0080 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	43,830.65 23,147.86 -964.49 9,012.64	2,625.45
26 11 16 11-0081 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	52,810.73 28,204.27 -1,175.18 10,921.93	2,901.81
26 11 16 11-0082 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	63,325.41 34,347.26 -1,431.14 13,201.99	3,039.99
26 11 16 11-0083 Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt <small>(26 11 16 11-0049)</small>		
26 11 16 11-0084 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	25,131.87 13,586.76 -566.12 5,230.54	1,243.63
26 11 16 11-0085 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	26,014.34 14,033.33 -584.72 5,408.10	1,312.72
26 11 16 11-0086 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	27,954.24 14,948.55 -622.86 5,785.13	1,520.00
26 11 16 11-0087 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	29,572.05 15,753.42 -656.39 6,107.89	1,658.18
26 11 16 11-0088 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	33,768.34 17,939.56 -747.48 6,964.75	1,934.54
26 11 16 11-0089 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	33,167.85 17,247.63 -718.65 6,766.31	2,210.90
26 11 16 11-0090 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	34,940.75 17,813.92 -742.25 7,056.86	2,625.45
26 11 16 11-0091 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	42,625.46 22,093.11 -920.55 8,681.17	2,901.81
26 11 16 11-0092 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	50,123.96 26,426.39 -1,101.10 10,297.67	3,039.99
26 11 16 11-0093 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	55,799.39 29,665.83 -1,236.08 11,513.11	3,178.17
26 11 16 11-0094 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	65,070.86 35,062.90 -1,460.95 13,519.67	3,316.35
26 11 16 11-0095 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer <i>For Gas Filled Transformers, Add</i> <i>For Single Phase Transformers, Deduct</i> <i>For Dry Type Unit, Add</i>	79,150.41 43,344.81 -1,806.03 16,584.00	3,454.54

26 12 Medium-Voltage Transformers (26 10)

26 12 13 Liquid-Filled, Medium-Voltage Transformers (26 12)

26 12 13 00-0001 Removal And Relocation Of Transformers (26 12 13)

26 12 13 00-0002 EA Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer	1,409.22	
26 12 13 00-0003 EA Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,593.35	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0006 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,097.17	567.06
26 12 13 00-0007 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,561.41	708.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0008 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,018.59	850.58
26 12 13 00-0009 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,850.40	1,063.22
26 12 13 00-0010 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,591.03	1,275.88
26 12 13 00-0011 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,920.50	1,488.52
26 12 13 00-0012 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,031.13	1,772.04
26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA <small>(26 12 13 00-0004)</small>		
26 12 13 00-0014 EA 10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,097.17	567.06
26 12 13 00-0015 EA 15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,587.85	708.82
26 12 13 00-0016 EA 25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,018.59	850.58
26 12 13 00-0017 EA 37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,850.40	1,063.22
26 12 13 00-0018 EA 50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,591.03	1,275.88
26 12 13 00-0019 EA 75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,648.68	1,488.52
26 12 13 00-0020 EA 100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,893.09	1,772.04
26 12 13 00-0021 Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0022 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,066.31	567.06
26 12 13 00-0023 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,477.66	708.82
26 12 13 00-0024 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,935.77	850.58
26 12 13 00-0025 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,831.29	1,063.22
26 12 13 00-0026 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,510.33	1,275.88
26 12 13 00-0027 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,699.64	1,488.52
26 12 13 00-0028 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,905.84	1,772.04
26 12 13 00-0029 Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0030 EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,209.56	567.06
26 12 13 00-0031 EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,625.32	708.82
26 12 13 00-0032 EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,322.59	850.58
26 12 13 00-0033 EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,175.64	1,063.22
26 12 13 00-0034 EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,896.35	1,275.88
26 12 13 00-0035 EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,270.55	1,488.52
26 12 13 00-0036 EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,827.46	1,772.04
26 12 13 00-0037 Transformer Platforms <small>(26 12 13 00-0004)</small>		
26 12 13 00-0038 EA Transformer Platforms, 75 - 167 KVA.....	4,301.98	957.61
26 12 13 00-0039 Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0040 EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,340.19	567.06
26 12 13 00-0041 EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,743.92	708.82
26 12 13 00-0042 EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,323.95	850.58
26 12 13 00-0043 EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,173.97	1,063.22
26 12 13 00-0044 EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,037.53	1,346.75
26 12 13 00-0045 EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,274.71	1,488.52
26 12 13 00-0046 EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,827.46	1,772.04
26 12 13 00-0047 EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,302.35	2,268.21
26 12 13 00-0048 EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,424.44	3,047.91
26 12 13 00-0049 EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	15,682.97	3,544.09
26 12 13 00-0050 EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,814.43	3,827.62
26 12 13 00-0051 Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL <small>(26 12 13 00-0004)</small>		
26 12 13 00-0052 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,097.17	694.35
26 12 13 00-0053 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	2,561.41	867.87
26 12 13 00-0054 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,018.01	1,040.40
26 12 13 00-0055 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	3,851.78	1,303.80
26 12 13 00-0056 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	4,589.72	1,561.80
26 12 13 00-0057 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	5,918.72	1,818.97
26 12 13 00-0058 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,031.13	2,169.83
26 12 13 00-0059 Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,097.17	694.35
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,587.85	867.87
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,018.01	1,040.40
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,851.78	1,303.80
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,589.72	1,561.80
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,646.90	1,818.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,893.09	2,169.83
26 12 13 00-0067 Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
26 12 13 00-0068 Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,865.37	567.06
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,277.12	708.82
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,680.91	850.58
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,431.74	1,063.22
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,203.85	1,275.88
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,775.92	1,488.52
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,749.61	1,772.04
26 12 13 00-0076 Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	1,795.25	567.06
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,188.97	708.82
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	2,640.84	850.58
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	3,351.60	1,063.22
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	4,093.67	1,275.88
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,375.23	1,488.52
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,348.92	1,772.04
26 12 13 00-0084 3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
26 12 13 00-0085 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small>		
<small>Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.</small>		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	7,500.05	1,984.69
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	8,796.05	2,126.45
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	11,461.83	2,693.50
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	14,774.61	3,402.32
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	19,804.87	3,827.62
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	29,002.57	5,103.48
26 12 16 Dry-Type, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 16 00-0001 Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	573.45	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer.....	2,548.67	
26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small>		
26 12 19 00-0001 Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small>		
<small>Note: Designed for residential and multi-family buildings. UL listed.</small>		
26 12 19 00-0002 Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled <small>(26 12 19 00-0001)</small>		
<small>Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.</small>		
26 12 19 00-0003 Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small>		
<small>Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.</small>		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	3,875.99	690.91
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,341.33	829.09
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,141.34	967.27
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,103.94	1,036.36
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,815.53	1,105.45
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	8,925.92	1,450.90
26 12 19 00-0010 Factory Modifications Material Cost Only <small>(26 12 19 00-0002)</small>		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications.....	597.22	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications	627.51	
26 12 19 00-0013 EA Loadbreaker Inserts, Factory Modifications	690.26	
26 12 19 00-0014 Distribution - Single Phase Multiple Building Transformer <small>(26 12 19 00-0001)</small>		
<small>Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0015			Primary, 4.16/4.8 KVA Ground Y Or Delta <small>(26 12 19 00-0014)</small> Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016	EA		25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,493.10	690.91
26 12 19 00-0017	EA		37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,167.52	690.91
26 12 19 00-0018	EA		50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,665.61	946.55
26 12 19 00-0019	EA		75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,889.88	946.55
26 12 19 00-0020	EA		100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	7,703.27	1,243.63
26 12 19 00-0021	EA		167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	9,332.10	1,243.63
26 12 19 00-0022	EA		250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	14,263.83	1,727.26
26 12 19 00-0023			Factory Modifications Material Cost Only <small>(26 12 19 00-0014)</small>		
26 12 19 00-0024	EA		Loadbreaker Current Limiting Fuse Factory Modifications	796.29	
26 12 19 00-0025	EA		Lightning Arrestors, Factory Modifications	201.76	
26 12 19 00-0026	EA		Loadbreaker Oil Switch, 2 Position Factory Modifications	627.51	
26 12 19 00-0027	EA		Loop Feed Air Switch, Factory Modifications	1,021.33	
26 12 19 00-0028	EA		Loadbreaker Inserts (Two), Factory Modifications	272.64	
26 12 19 00-0029	EA		Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	235.86	
26 12 19 00-0030			Primary, 12.47 KV Ground Y Or Delta <small>(26 12 19 00-0014)</small> Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031	EA		25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	4,786.58	690.91
26 12 19 00-0032	EA		37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,264.85	690.91
26 12 19 00-0033	EA		50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	5,627.22	946.55
26 12 19 00-0034	EA		75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	6,654.53	946.55
26 12 19 00-0035	EA		100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	8,190.59	1,243.63
26 12 19 00-0036	EA		167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	10,190.42	1,243.77
26 12 19 00-0037	EA		250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	12,893.30	1,727.26
26 12 19 00-0038			Oil Filled Distribution Transformer Single Phase Cluster Mounted <small>(26 12 19 00-0001)</small> Note: Conventional type.		
26 12 19 00-0039			13.8/14.4 KV Ground Y Or Delta Primary 120/240V <small>(26 12 19 00-0038)</small> Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA		10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,286.23	478.01
26 12 19 00-0041	EA		37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,187.08	672.19
26 12 19 00-0042	EA		50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,312.73	1,075.51
26 12 19 00-0043	EA		100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,652.42	1,075.51
26 12 19 00-0044	EA		167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,484.46	1,762.65
26 12 19 00-0045	EA		250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,899.29	1,762.65
26 12 19 00-0046			Oil Filled Distribution Transformer Single Phase <small>(26 12 19 00-0001)</small>		
26 12 19 00-0047			7.2 KV Primary, 120/240 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0048	EA		10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,208.09	507.88
26 12 19 00-0049	EA		15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,512.90	507.88
26 12 19 00-0050	EA		25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,094.95	717.01
26 12 19 00-0051	EA		37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,364.30	717.01
26 12 19 00-0052	EA		50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,189.39	970.95
26 12 19 00-0053	EA		100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,452.87	1,493.77
26 12 19 00-0054	EA		167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,328.19	1,493.77
26 12 19 00-0055	EA		250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,658.06	1,867.21
26 12 19 00-0056			7.2 KV Primary, 240/480 Volt Secondary <small>(26 12 19 00-0046)</small>		
26 12 19 00-0057	EA		10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,208.09	507.88
26 12 19 00-0058	EA		15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	3,512.98	507.88
26 12 19 00-0059	EA		25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	4,094.95	717.01
26 12 19 00-0060	EA		37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	5,364.30	717.01
26 12 19 00-0061	EA		50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	6,189.39	970.95
26 12 19 00-0062	EA		75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	9,288.01	1,314.51
26 12 19 00-0063	EA		100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	10,452.87	1,314.51
26 12 19 00-0064	EA		167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	14,328.19	1,658.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0065 EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	18,658.06	1,867.21
26 12 19 00-0066 2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0067 EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,453.30	507.88
26 12 19 00-0068 EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,780.13	507.88
26 12 19 00-0069 EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,411.77	717.01
26 12 19 00-0070 EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,769.03	717.01
26 12 19 00-0071 EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,652.54	970.95
26 12 19 00-0072 EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	9,812.29	1,314.51
26 12 19 00-0073 EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	11,309.77	1,314.51
26 12 19 00-0074 EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	15,530.92	1,658.08
26 12 19 00-0075 EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	20,288.50	1,867.21
26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0077 EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,208.09	507.88
26 12 19 00-0078 EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,512.90	507.88
26 12 19 00-0079 EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,094.95	975.58
26 12 19 00-0080 EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,364.30	1,314.51
26 12 19 00-0081 EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,189.39	970.95
26 12 19 00-0082 EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	9,080.88	1,314.51
26 12 19 00-0083 EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,451.27	1,314.51
26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0085 EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,208.09	507.88
26 12 19 00-0086 EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,512.90	507.88
26 12 19 00-0087 EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,094.95	717.01
26 12 19 00-0088 EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,364.30	717.01
26 12 19 00-0089 EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	6,189.39	970.95
26 12 19 00-0090 EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	9,080.88	1,314.51
26 12 19 00-0091 EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	10,451.27	1,314.51
26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0093 EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	2,826.77	522.82
26 12 19 00-0094 EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,082.09	582.57
26 12 19 00-0095 EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	3,679.41	642.32
26 12 19 00-0096 EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	4,777.26	896.27
26 12 19 00-0097 EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	5,377.06	1,045.64
26 12 19 00-0098 EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	7,162.82	1,224.89
26 12 19 00-0099 EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	8,523.85	1,404.14
26 12 19 00-0100 EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	12,836.34	1,792.52
26 12 19 00-0101 EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	17,151.79	2,016.59
26 13 Medium-Voltage Switchgear (26 10)		
26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)		
26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section (26 13 16) Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0003 EA 1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	13,949.13	1,553.52
For Weatherproofing, Add	2,850.97	
26 13 16 00-0004 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	14,611.47	1,553.52
For Weatherproofing, Add	2,996.68	
26 13 16 00-0005 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,810.32	1,979.24
For Weatherproofing, Add	4,096.21	
26 13 16 00-0006 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	26,826.78	1,979.24
For Weatherproofing, Add	5,606.51	
26 13 16 00-0007 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	38,210.83	2,390.03
For Weatherproofing, Add	8,071.24	
26 13 16 00-0008 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	34,997.28	2,390.03
For Weatherproofing, Add	7,347.33	
26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0010 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	20,584.05	1,792.52
For Weatherproofing, Add	4,288.11	
26 13 16 00-0011 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	25,328.14	2,240.65
For Weatherproofing, Add	5,258.19	
26 13 16 00-0012 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	35,409.20	2,688.79
For Weatherproofing, Add	7,423.13	

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 13	Medium-Voltage Switchgear



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	19,928.58	1,792.52
<i>For Weatherproofing, Add</i>	4,124.18	
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	27,285.73	1,792.52
<i>For Weatherproofing, Add</i>	5,699.78	
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	39,611.56	2,390.03
<i>For Weatherproofing, Add</i>	8,362.48	
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	25,083.38	2,390.03
<i>For Weatherproofing, Add</i>	5,186.40	
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	36,131.52	2,987.54
<i>For Weatherproofing, Add</i>	7,574.15	
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	50,276.63	2,987.54
<i>For Weatherproofing, Add</i>	10,640.92	
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	34,859.46	2,987.54
<i>For Weatherproofing, Add</i>	7,281.81	
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	48,045.90	2,987.54
<i>For Weatherproofing, Add</i>	10,139.79	
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	62,040.04	2,987.54
<i>For Weatherproofing, Add</i>	13,177.80	
26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,369.93	978.42
<i>For Weatherproofing, Add</i>	1,264.16	
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,165.56	978.42
<i>For Weatherproofing, Add</i>	1,659.20	
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,947.03	1,299.58
<i>For Weatherproofing, Add</i>	1,786.81	
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,086.68	1,605.80
<i>For Weatherproofing, Add</i>	2,214.20	
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,720.90	1,605.80
<i>For Weatherproofing, Add</i>	3,013.73	
26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,010.83	1,493.77
<i>For Weatherproofing, Add</i>	1,606.08	
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,469.91	1,493.77
<i>For Weatherproofing, Add</i>	2,103.07	
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,799.76	1,493.77
<i>For Weatherproofing, Add</i>	3,232.21	
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section <small>(26 13 16 00-0001)</small>		
26 13 16 00-0034 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,305.52	1,269.70
<i>For Weatherproofing, Add</i>	1,650.29	
26 13 16 00-0035 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,825.20	1,269.70
<i>For Weatherproofing, Add</i>	1,764.62	
26 13 16 00-0036 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,553.08	1,568.46
<i>For Weatherproofing, Add</i>	2,541.08	
26 13 16 00-0037 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	11,380.43	1,882.15
<i>For Weatherproofing, Add</i>	2,239.64	
26 13 16 00-0038 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	13,829.37	1,882.15
<i>For Weatherproofing, Add</i>	2,778.41	
26 13 16 00-0039 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,914.90	2,195.84
<i>For Weatherproofing, Add</i>	3,192.83	
26 13 16 00-0040 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,086.76	2,509.53
<i>For Weatherproofing, Add</i>	2,967.02	
26 13 16 00-0041 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	16,764.84	2,509.53
<i>For Weatherproofing, Add</i>	3,336.20	
26 13 16 00-0042 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	20,548.52	2,808.29
<i>For Weatherproofing, Add</i>	4,124.60	
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections <small>(26 13 16 00-0001)</small>		
26 13 16 00-0044 EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	4,173.39	946.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	567.97	
26 13 16 00-0045 EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	5,164.00	1,050.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	630.28	
26 13 16 00-0046 EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section.....	6,697.51	1,263.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	758.26	
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section.....	4,676.53	1,900.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,777.93	125.01
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	6,364.09	125.01
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,610.09	125.01
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,135.53	125.01
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,968.17	125.01
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	13,549.65	125.01
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,193.36	125.01
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	2,472.16	125.01
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section.....	3,727.52	125.01
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67.....	2,405.10	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
EA AC Ammeter With Switch.....	973.41	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer.....	973.41	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0060 EA Indicating Wattmeter.....	1,413.46	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0061 EA Indicating Varmeter.....	1,657.60	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element.....	1,060.82	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N.....	2,341.73	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87.....	4,520.23	125.01
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary.....	677.28	125.01
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses.....	3,034.28	125.01
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13 19)		
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)		
26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	48,918.18	1,867.21
26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	54,068.93	2,360.15
26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	61,408.27	2,360.15
26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	55,967.16	1,867.21
26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,861.98	1,867.21
26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	71,667.28	2,195.84
26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,047.18	2,509.53
26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	80,977.02	2,509.53
26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	88,512.35	2,823.22
26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13 29)		
26 13 29 00-0001 Substation Secondary Distribution Section (26 13 29)		
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)		
Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	15,629.19	1,180.84
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	24,830.25	1,785.33
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	33,630.51	2,193.00
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	55,521.58	2,544.44
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	71,266.27	2,895.88
26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	6,924.74	358.47
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,001.40	358.47
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,467.13	527.16
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	14,905.01	527.16
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	24,830.88	773.17
26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001)		
Note: No provisions for future breaker.		
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	3,215.03	400.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.09	
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	3,999.08	400.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	268.93	
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	5,267.54	618.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	386.59	
26 13 29 00-0018 Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section.....	1,682.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section.....	1,338.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	3,954.24	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	3,954.24	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	

26	Electrical
26 10	Medium-Voltage Electrical Distribution
26 13	Medium-Voltage Switchgear



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	5,187.53	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section	6,680.46	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	2,987.49	142.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.52	
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	10,874.18	2,111.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,266.92	
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800	1,864.13	125.01
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	2,166.32	125.01
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	1,152.75	62.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.50	
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	8,357.31	125.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.01	
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section	1,100.83	62.51

26 18 Medium-Voltage Circuit Protection Devices ^(26 10)

26 18 36 Medium-Voltage Enclosed Fuses ^(26 18)

26 18 36 00-0001 Sectionalizing Switch ^(26 18 36)

26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units ^(26 18 36 00-0001)

Note: 15 KV - 25 KV.

26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders ^(26 18 36 00-0002)

Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.

26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	26,272.61	1,036.36
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	29,481.17	1,036.36

26 20 Low-Voltage Electrical Distribution ⁽²⁶⁾

26 21 Low-Voltage Electrical Service Entrance ^(26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance ^(26 21)

26 21 13 00-0001 Service Drop Cable And Weatherheads ^(26 21 13)

26 21 13 00-0002 600 Volt Insulated Stranded Conductors ^(26 21 13 00-0001)

26 21 13 00-0003 Aluminum Duplex ACSR Neutral ^(26 21 13 00-0002)

26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.07	3.55
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.80	4.21
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.34	4.74
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.85	5.98

26 21 13 00-0008 Aluminum Triplex ACSR Neutral ^(26 21 13 00-0002)

26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	10.85	4.21
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	12.29	4.74
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	15.53	5.98
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	19.11	7.29
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	25.16	9.64
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	31.48	11.95
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable	39.00	14.23

26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral ^(26 21 13 00-0002)

26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.30	4.74
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	15.53	5.98
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	19.95	7.66
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	25.41	9.64
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	28.19	10.67
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	31.91	11.95
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	37.83	14.23
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	43.66	15.73

26 21 13 00-0025 Weatherproof Conduit Hubs ^(26 21 13 00-0002)

26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs	62.66	24.08
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs	71.41	27.36
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs	82.26	30.65
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs	113.72	41.05
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs	124.56	44.34
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs	157.43	51.45
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs	201.00	58.01
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs	255.66	68.41
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs	462.25	136.83



Electrical	26
Low-Voltage Electrical Distribution	26 20
Low-Voltage Electrical Service Entrance	26 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized <small>(26 21 13 00-0002)</small>		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	67.78	24.08
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....	77.54	27.36
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	88.27	30.65
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	118.52	41.05
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	132.49	44.34
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....	169.08	51.45
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....	263.43	58.01
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....	301.63	68.41
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....	513.86	136.83
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum <small>(26 21 13 00-0002)</small>		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	66.12	24.08
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	74.76	27.36
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	84.52	30.51
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	112.58	41.05
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	124.47	44.34
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	146.15	51.45
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	220.43	58.01
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	280.00	68.41
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	398.85	102.62
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	488.13	136.83
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) <small>(26 21 13 00-0002)</small>		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	63.43	24.08
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	72.36	27.36
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	81.70	30.51
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	109.08	41.05
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	118.39	44.34
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	141.98	51.45
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	206.56	58.01
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	235.22	68.41
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	387.75	102.62
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	531.20	136.83
26 21 16 Low-Voltage Underground Electrical Service Entrance <small>(26 21)</small>		
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial <small>(26 21 16)</small>		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	3,707.86	1,327.81
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,030.94	1,405.94
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,450.23	1,493.77
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	4,756.96	1,493.77
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	5,165.26	1,593.41
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	6,034.66	1,838.53
26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	7,652.46	2,390.03
26 22 Low-Voltage Transformers <small>(26 20)</small>		
26 22 13 Low-Voltage Distribution Transformers <small>(26 22)</small>		
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers <small>(26 22 13)</small>		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers <small>(26 22 13 00-0001)</small>		
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	914.79	350.16
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,166.89	420.19
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,342.33	438.40
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,519.11	455.21
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,934.56	490.22
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,221.75	525.24
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	58.56	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	87.85	
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,413.29	560.26
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	64.64	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	96.96	
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,465.71	630.29
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	60.26	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	90.38	
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,867.06	700.32
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	73.32	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	109.98	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,668.52	840.39
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	99.39	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	149.08	
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	4,531.76	980.45
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	128.54	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	192.81	
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	6,785.41	1,260.58
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	213.21	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	319.82	
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	11,171.12	1,540.70
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	404.49	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	606.73	
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	16,553.15	1,750.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	652.58	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	978.87	
26 22 13 00-0017 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)		
Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018 EA 3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,067.08	420.19
26 22 13 00-0019 EA 5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,182.39	437.71
26 22 13 00-0020 EA 7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,340.32	455.21
26 22 13 00-0021 EA 10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,514.15	490.22
26 22 13 00-0022 240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)		
Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023 EA 15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,221.74	525.24
26 22 13 00-0024 EA 25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,413.29	560.26
26 22 13 00-0025 1 Phase Mounting Brackets (26 22 13 00-0001)		
26 22 13 00-0026 EA 1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	641.19	250.03
26 22 13 00-0027 1 Phase Weathershields (26 22 13 00-0001)		
Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028 EA 37.5 KVA 1 Phase Weathershields, Set Of 2.....	42.19	
26 22 13 00-0029 EA 50 KVA 1 Phase Weathershields, Set Of 2.....	53.78	
26 22 13 00-0030 EA 75 KVA 1 Phase Weathershields, Set Of 2.....	64.13	
26 22 13 00-0031 EA 100 KVA 1 Phase Weathershields, Set Of 2.....	76.51	
26 22 13 00-0032 EA 167 KVA 1 Phase Weathershields, Set Of 2.....	103.51	
26 22 13 00-0033 EA 250 KVA 1 Phase Weathershields, Set Of 2.....	123.76	
26 22 13 00-0034 EA 333 KVA 1 Phase Weathershields, Set Of 2.....	151.89	
26 22 13 00-0035 Packaged Power Supply (26 22 13 00-0001)		
Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036 EA 5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	1,495.70	437.71
26 22 13 00-0037 EA 7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	1,635.72	455.21
26 22 13 00-0038 EA 10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	1,768.30	490.22
26 22 13 00-0039 EA 15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	2,073.02	525.24
26 22 13 00-0040 EA 25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	2,645.72	560.26
26 22 13 00-0041 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)		
26 22 13 00-0042 EA 0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,097.22	315.15
26 22 13 00-0043 EA 1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,426.03	350.16
26 22 13 00-0044 EA 2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,678.61	420.19
26 22 13 00-0045 EA 5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	1,820.51	437.71
26 22 13 00-0046 EA 7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,001.79	455.21
26 22 13 00-0047 EA 10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,454.38	490.22
26 22 13 00-0048 EA 15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	3,039.72	525.24
26 22 13 00-0049 1 Phase, 208/600 Volt, Dry General Purpose Transformer (26 22 13 00-0001)		
26 22 13 00-0050 EA 15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,582.42	525.24
26 22 13 00-0051 EA 25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,736.37	560.26
26 22 13 00-0052 EA 30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,899.26	595.27
26 22 13 00-0053 EA 37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	4,940.41	630.29
26 22 13 00-0054 EA 45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	5,147.53	665.30
26 22 13 00-0055 EA 50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	6,617.52	700.32
26 22 13 00-0056 3 Phase General Purpose "Dry Type" Transformer (26 22 13)		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0057 Packaged Power Supply <small>(26 22 13 00-0056)</small> Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058 EA 15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	5,984.60	1,505.69
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	148.66	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	222.99	
26 22 13 00-0059 EA 22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	6,905.93	1,610.74
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	184.22	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	276.33	
26 22 13 00-0060 EA 30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	8,022.37	1,750.80
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	226.04	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	339.06	
26 22 13 00-0061 Drive Isolation Transformers <small>(26 22 13 00-0056)</small> Note: Only use in step-up applications.		
26 22 13 00-0062 230 Volt Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,752.01	560.26
26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,314.22	595.27
26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,482.69	630.29
26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,191.89	665.30
26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,433.02	735.34
26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,969.45	805.37
26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,705.37	875.40
26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,754.13	980.45
26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,334.71	1,015.46
26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,469.16	1,050.48
26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,616.83	1,085.50
26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,181.96	1,330.61
26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,599.06	1,400.64
26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,556.89	1,470.68
26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,142.38	1,750.80
26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,369.04	2,065.95
26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	27,952.08	2,276.04
26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	33,727.61	2,521.15
26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	41,241.32	2,801.29
26 22 13 00-0082 208V Drive Isolation Transformers <small>(26 22 13 00-0061)</small>		
26 22 13 00-0083 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	3,885.95	560.26
26 22 13 00-0084 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,473.22	595.27
26 22 13 00-0085 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	4,646.69	630.29
26 22 13 00-0086 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,388.43	665.30
26 22 13 00-0087 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	5,634.70	735.34
26 22 13 00-0088 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	6,121.26	770.35
26 22 13 00-0089 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	7,027.59	910.41
26 22 13 00-0090 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,049.01	980.45
26 22 13 00-0091 EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,655.58	1,015.46
26 22 13 00-0092 EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,844.20	1,050.48
26 22 13 00-0093 EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,097.63	1,085.50
26 22 13 00-0094 EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,717.47	1,330.61
26 22 13 00-0095 EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,199.57	1,400.64
26 22 13 00-0096 EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,249.92	1,470.68
26 22 13 00-0097 EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,989.40	1,750.80
26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0099 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	2,870.19	577.77
26 22 13 00-0100 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	3,613.30	630.29
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	117.64	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	176.45	
26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,125.10	770.35
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	129.22	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	193.83	
<i>For K4 Factor Rating, Add</i>	1,809.08	
<i>For K13 Factor Rating, Add</i>	2,584.40	
<i>For K20 Factor Rating, Add</i>	3,359.72	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	4,875.23	840.39
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	159.72	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	239.58	
<i>For K4 Factor Rating, Add</i>	2,236.12	
<i>For K13 Factor Rating, Add</i>	3,194.46	
<i>For K20 Factor Rating, Add</i>	4,152.80	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	5,134.31	910.41
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	165.67	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	248.51	
For K4 Factor Rating, Add	2,319.43	
For K13 Factor Rating, Add	3,313.47	
For K20 Factor Rating, Add	4,307.51	
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,489.67	980.45
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	226.44	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	339.66	
For K4 Factor Rating, Add	3,170.14	
For K13 Factor Rating, Add	4,528.77	
For K20 Factor Rating, Add	5,887.40	
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	6,497.72	1,050.48
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	219.84	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	329.76	
For K4 Factor Rating, Add	3,077.73	
For K13 Factor Rating, Add	4,396.76	
For K20 Factor Rating, Add	5,715.79	
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	8,032.99	1,260.58
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	275.59	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	413.39	
For K4 Factor Rating, Add	3,858.29	
For K13 Factor Rating, Add	5,511.84	
For K20 Factor Rating, Add	7,165.39	
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	10,152.18	1,400.64
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	367.54	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	551.32	
For K4 Factor Rating, Add	5,145.62	
For K13 Factor Rating, Add	7,350.89	
For K20 Factor Rating, Add	9,556.16	
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	13,658.23	1,750.80
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	507.83	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	761.75	
For K4 Factor Rating, Add	7,109.64	
For K13 Factor Rating, Add	10,156.63	
For K20 Factor Rating, Add	13,203.62	
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	16,691.70	2,171.00
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	617.49	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	926.23	
For K4 Factor Rating, Add	8,644.80	
For K13 Factor Rating, Add	12,349.71	
For K20 Factor Rating, Add	16,054.62	
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	23,406.59	2,661.22
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	904.21	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,356.31	
For K4 Factor Rating, Add	12,658.91	
For K13 Factor Rating, Add	18,084.15	
For K20 Factor Rating, Add	23,509.40	
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	50,554.33	3,178.17
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,205.57	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,308.35	
For K4 Factor Rating, Add	30,877.97	
For K13 Factor Rating, Add	44,111.38	
For K20 Factor Rating, Add	57,344.79	
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	65,731.79	3,501.60
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,936.43	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	4,404.64	
For K4 Factor Rating, Add	41,110.01	
For K13 Factor Rating, Add	58,728.58	
For K20 Factor Rating, Add	76,347.15	
26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN		
Taps <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,421.89	542.74
For K4 Factor Rating, Add	935.47	
For K13 Factor Rating, Add	1,336.39	
For K20 Factor Rating, Add	1,737.31	
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	2,870.19	577.77
For K4 Factor Rating, Add	1,200.26	
For K13 Factor Rating, Add	1,714.66	
For K20 Factor Rating, Add	2,229.06	
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry	3,613.30	630.29
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	117.64	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	176.45	
For K4 Factor Rating, Add	1,646.90	
For K13 Factor Rating, Add	2,352.72	
For K20 Factor Rating, Add	3,058.54	
26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps		
<small>(26 22 13 00-0056)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,460.21 245.98 368.96 3,443.66 4,919.51 6,395.36	770.35
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	7,295.27 273.72 410.58 3,832.10 5,474.43 7,116.76	910.41
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	10,426.92 416.30 624.45 5,828.17 8,325.96 10,823.75	1,050.48
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	13,023.17 525.10 787.65 7,351.41 10,502.02 13,652.63	1,260.58
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	15,550.03 637.44 956.16 8,924.12 12,748.74 16,573.36	1,400.64
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	19,881.25 818.98 1,228.47 11,465.76 16,379.65 21,293.55	1,750.80
26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	24,221.62 993.98 1,490.97 13,915.74 19,879.63 25,843.52	2,171.00
26 22 13 00-0126 EA 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	37,973.67 1,632.56 2,448.84 22,855.86 32,651.23 42,446.60	2,661.22
26 22 13 00-0127 3 Phase 60 Hz K20 Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0128 3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,424.17	630.29
26 22 13 00-0130 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	4,967.94	770.35
26 22 13 00-0131 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,039.63	910.41
26 22 13 00-0132 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,866.06	1,050.48
26 22 13 00-0133 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	12,956.66	1,260.58
26 22 13 00-0134 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	15,608.22	1,400.64
26 22 13 00-0135 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	18,291.30	1,750.80
26 22 13 00-0136 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	28,355.51	2,171.00
26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise <small>(26 22 13 00-0127)</small> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	3,858.55	630.29
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	5,653.80	770.35
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,082.98	910.41
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	10,217.01	1,050.48
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20.....	15,043.35	1,260.58
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	18,170.86	1,400.64
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	21,248.82	1,750.80
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	33,158.63	2,171.00
26 22 13 00-0146 NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0056)</small>		
26 22 13 00-0147 Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small> Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0148 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0149 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,443.16	621.81
26 22 13 00-0150 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,200.94	759.99
26 22 13 00-0151 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,054.03	898.17
26 22 13 00-0152 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,688.67	1,036.36
26 22 13 00-0153 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,866.77	1,243.63
26 22 13 00-0154 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,935.62	1,381.81
26 22 13 00-0155 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,438.86	1,727.26
26 22 13 00-0156 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	20,159.99	2,141.81
26 22 13 00-0157 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,104.94	621.81
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,002.56	759.99
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,031.54	898.17
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,073.68	1,036.36
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,296.31	1,243.63
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,387.22	1,381.81
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,734.37	1,727.26
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	24,922.90	2,141.81
26 22 13 00-0166 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,764.05	621.81
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,806.40	759.99
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,009.07	898.17
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,456.46	1,036.36
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,099.94	1,243.63
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,838.82	1,381.81
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,029.89	1,727.26
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	29,685.81	2,141.81
26 22 13 00-0175 Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0176 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,543.60	621.81
26 22 13 00-0178 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,539.19	759.99
26 22 13 00-0179 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,681.74	898.17
26 22 13 00-0180 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,995.53	1,036.36
26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,126.65	1,243.63
26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	15,106.23	1,381.81
26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	20,043.46	1,727.26
26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	28,262.95	2,141.81



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0185 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,202.71	621.81
26 22 13 00-0187 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,343.04	759.99
26 22 13 00-0188 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,659.27	898.17
26 22 13 00-0189 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	10,380.54	1,036.36
26 22 13 00-0190 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	15,635.94	1,243.63
26 22 13 00-0191 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,617.52	1,381.81
26 22 13 00-0192 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,022.37	1,727.26
26 22 13 00-0193 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	37,056.19	2,141.81
26 22 13 00-0194 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,864.03	621.81
26 22 13 00-0196 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,146.87	759.99
26 22 13 00-0197 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,636.78	898.17
26 22 13 00-0198 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,763.32	1,036.36
26 22 13 00-0199 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	18,454.95	1,243.63
26 22 13 00-0200 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	23,707.98	1,381.81
26 22 13 00-0201 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	29,999.04	1,727.26
26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	44,079.20	2,141.81
26 22 13 00-0203 3 Phase Weathershields <small>(26 22 13 00-0056)</small>		
Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	571.55	
26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	970.60	
26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2.....	970.60	
26 22 13 00-0207 Three Phase Mounting Brackets <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	805.16	250.03
26 22 13 00-0209 Pad Mounted Commercial Type Distribution Transformers UL Listed <small>(26 22 13)</small>		
26 22 13 00-0210 Distribution 3 Phase Oil Filled Transformer <small>(26 22 13 00-0209)</small>		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
26 22 13 00-0211 Factory Modifications <small>(26 22 13 00-0210)</small>		
Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification.....	1,047.29	
26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification.....	170.30	
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	681.21	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification.....	1,962.60	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification.....	240.43	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification.....	190.34	
26 22 13 00-0218 Accessories For Transformer Liquid Containment Area <small>(26 22 13 00-0210)</small>		
Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219 EA Containment Area For 75 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,375.46	
26 22 13 00-0220 EA Containment Area For 112.5 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,375.46	
26 22 13 00-0221 EA Containment Area For 150 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,375.46	
26 22 13 00-0222 EA Containment Area For 225 KVA.....	5,556.58	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,375.46	
26 22 13 00-0223 EA Containment Area For 300 KVA.....	5,549.19	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,373.24	
26 22 13 00-0224 EA Containment Area For 500 KVA.....	5,549.19	2,063.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
	1,373.24	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 22	Low-Voltage Transformers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0225 EA Containment Area For 750 KVA..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,577.24 1,373.24	2,063.15
26 22 13 00-0226 EA Containment Area For 1,000 KVA..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,983.96 1,373.24	2,063.15
26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	7,849.99	1,658.18
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,451.05	1,658.18
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,851.76	1,658.18
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	10,053.89	1,658.18
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,367.72	2,487.27
26 22 13 00-0233 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,768.43	2,487.27
26 22 13 00-0234 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,576.95	2,487.27
26 22 13 00-0235 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,309.90	3,316.35
26 22 13 00-0236 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	26,519.13	3,316.35
26 22 13 00-0237 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0238 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,050.34	1,658.18
26 22 13 00-0239 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	8,851.76	1,658.18
26 22 13 00-0240 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,052.11	1,658.18
26 22 13 00-0241 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	9,252.47	1,658.18
26 22 13 00-0242 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	11,367.72	2,487.27
26 22 13 00-0243 EA 300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	12,169.14	2,487.27
26 22 13 00-0244 EA 500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	16,576.95	2,487.27
26 22 13 00-0245 EA 750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,510.26	3,316.35
26 22 13 00-0246 EA 1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	26,519.13	3,316.35
26 22 13 00-0247 Primary 5 KV Or 15 KV, Secondary 277/480 Volt <small>(26 22 13 00-0209)</small> Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248 EA 150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	13,485.10	2,183.16
26 22 13 00-0249 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	15,029.20	2,577.26
26 22 13 00-0250 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	17,283.31	3,149.98
26 22 13 00-0251 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	20,271.54	3,544.09
26 22 13 00-0252 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	23,915.65	3,730.51
26 22 13 00-0253 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	30,432.11	5,450.81
26 22 13 00-0254 EA 1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	35,346.81	6,166.71
26 22 13 00-0255 EA 2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	43,318.50	7,088.18
26 22 13 00-0256 EA 2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	47,224.31	7,442.58
26 22 13 00-0257 EA 3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	50,593.56	8,293.45
26 22 13 00-0258 EA 3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	57,072.25	8,860.50
26 22 13 00-0259 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260 EA 1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	49,872.00	6,158.05
26 22 13 00-0261 EA 2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	60,798.04	7,081.79
26 22 13 00-0262 EA 2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	68,443.10	7,454.47
26 22 13 00-0263 EA 3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	73,171.57	8,331.50
26 22 13 00-0264 EA 3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	81,163.81	8,583.96
26 22 13 00-0265 Silicone Filled Distribution Transformers, 3 Phase <small>(26 22 13 00-0209)</small> Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266 EA 225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	21,378.97	2,577.26
26 22 13 00-0267 EA 300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	23,556.38	3,149.98
26 22 13 00-0268 EA 500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	27,384.79	3,544.09
26 22 13 00-0269 EA 750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	32,289.19	3,730.51
26 22 13 00-0270 EA 1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	40,264.16	5,450.81



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Low-Voltage Transformers	26 22

	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0271	EA	1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	49,917.89	6,166.71
26 22 13 00-0272	EA	2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	60,150.52	7,088.18
26 22 13 00-0273	EA	2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase	67,743.32	7,442.58
26 22 13 00-0274	Foam Core Poly Transformer Pads (26 22 13)			
26 22 13 00-0275	EA	Single Phase Foam Core Poly Pads..... Note: Excludes site prep.	201.40	45.71
26 24	Switchboards and Panelboards (26 20)			
26 24 13	Switchboards (26 24)			
	Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.			
26 24 13 00-0001	Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)			
26 24 13 00-0002	Incoming Service Section Main Device Only (26 24 13 00-0001)			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0003	EA	400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,412.54	1,196.82
26 24 13 00-0004	EA	600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,865.79	1,265.92
26 24 13 00-0005	EA	800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,662.34	1,436.00
26 24 13 00-0006	EA	1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,251.57	1,539.44
26 24 13 00-0007	EA	1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	12,973.18	1,641.37
26 24 13 00-0008	EA	2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	14,437.77	1,745.23
26 24 13 00-0009	EA	400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	5,260.99	1,196.82
26 24 13 00-0010	EA	600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	6,653.91	1,265.92
26 24 13 00-0011	EA	800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,168.22	1,437.23
26 24 13 00-0012	EA	1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,404.34	1,539.44
26 24 13 00-0013	EA	1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	12,973.18	1,643.02
26 24 13 00-0014	EA	2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,437.77	1,745.23
26 24 13 00-0015	EA	2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	17,262.03	1,824.58
26 24 13 00-0016	EA	3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	19,537.51	1,954.71
26 24 13 00-0017	EA	4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	22,994.66	2,107.14
26 24 13 00-0018	EA	400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,076.35	1,060.41
26 24 13 00-0019	EA	600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,382.87	1,128.96
26 24 13 00-0020	EA	800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,877.00	1,299.58
26 24 13 00-0021	EA	1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,167.35	1,354.17
26 24 13 00-0022	EA	1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,423.29	1,403.03
26 24 13 00-0023	EA	1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,835.18	1,504.28
26 24 13 00-0024	EA	2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,225.13	1,607.45
26 24 13 00-0025	Branch Breaker Units (26 24 13 00-0001)			
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.			
26 24 13 00-0026	EA	15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	358.82	41.73
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	25.04			
26 24 13 00-0027	EA	70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	527.19	65.68
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	39.41			
26 24 13 00-0028	EA	125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,397.67	119.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	71.83			
26 24 13 00-0029	EA	100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,463.21	155.99
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	93.59			
26 24 13 00-0030	EA	300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,421.52	383.12
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	229.83			
26 24 13 00-0031	EA	400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	7,004.74	383.12
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	229.83			
26 24 13 00-0032	EA	600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	11,376.59	682.77
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>			
	409.66			
26 24 13 00-0033	Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)			
26 24 13 00-0034	Incoming Service Section Main Device Only (26 24 13 00-0033)			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0035	EA	400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,229.23	1,552.98
26 24 13 00-0036	EA	600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,932.28	1,552.98
26 24 13 00-0037	EA	800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	10,064.37	2,018.20
26 24 13 00-0038	EA	1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch	11,367.82	2,018.20
26 24 13 00-0039	Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)			
26 24 13 00-0040	Incoming Service Section Main Device Only (26 24 13 00-0039)			
	Note: Copper bus, non-metering type, with fuses.			
26 24 13 00-0041	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	3,965.60	1,060.41
26 24 13 00-0042	EA	600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	4,398.80	1,128.96
26 24 13 00-0043	EA	800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	6,600.63	1,299.58
26 24 13 00-0044	EA	1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch	7,168.29	1,401.93
26 24 13 00-0045	EA	200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,771.03	1,060.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	5,958.02	1,128.96
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	8,273.44	1,299.58
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	11,730.66	1,401.93
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	13,748.26	1,573.51
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,834.87	923.45
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,163.04	992.13
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,712.53	1,162.76
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,985.27	1,217.35
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,247.80	1,265.92
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,603.19	1,354.17
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,949.35	1,436.00
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,142.24	1,778.75
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,862.25	1,949.79
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	8,012.81	2,103.71
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....	197.46	36.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.76	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....	314.54	60.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.12	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....	925.54	84.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.49	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....	2,616.98	108.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.85	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....	4,152.89	263.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.02	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....	5,867.01	263.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.02	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....	9,696.85	502.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.74	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,414.22	1,196.82
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,863.92	1,265.92
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,659.93	1,436.00
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,248.80	1,539.44
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	12,966.87	1,641.37
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	14,437.77	1,745.23
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,262.67	1,196.82
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,652.04	1,265.92
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,168.22	1,437.23
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,401.57	1,539.44
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,970.01	1,643.02
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,437.77	1,745.23
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,210.08	1,060.41
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,570.99	1,128.96
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,158.53	1,299.58
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,460.35	1,354.17
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,750.86	1,403.03
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,151.16	1,504.28
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,557.20	1,607.45
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,571.05	1,826.64
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,249.02	1,954.58
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	8,493.16	2,100.29
26 24 13 00-0092 Branch Breaker Units (26 24 13 00-0068) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	358.82	41.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.04	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	527.19	65.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.41	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....	1,397.67	119.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.83	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,463.21	155.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.59	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,421.52	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	7,004.74	383.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.83	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	11,376.59	682.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.66	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0101 Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small>		
<small>Note: Copper bus, non-metering type, with fuses.</small>		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,750.72	1,641.37
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,293.99	1,745.23
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,781.90	1,948.00
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,585.82	2,085.79
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	7,191.19	1,641.37
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,522.59	1,745.23
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	10,780.99	1,950.20
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,494.21	2,085.79
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,132.28	2,224.13
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,671.98	2,362.32
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,210.08	1,060.41
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,570.99	1,128.96
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,158.53	1,299.58
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,460.35	1,354.17
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,750.86	1,403.03
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,151.16	1,504.28
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,557.20	1,607.45
26 24 13 00-0119 Branch Breaker Units <small>(26 24 13 00-0100)</small>		
<small>Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.</small>		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	728.84	41.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.04	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	845.58	65.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.41	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,533.63	119.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.83	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,463.21	155.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.59	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	5,905.02	383.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.83	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	6,037.54	383.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	229.83	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	9,708.94	682.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	409.66	
26 24 13 00-0127 Fusible Branch Circuit Switch <small>(26 24 13)</small>		
<small>Note: Includes switch fuses, and portion of distribution section occupied by that branch device.</small>		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	771.00	107.41
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	768.42	107.41
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	768.42	107.41
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,197.62	141.62
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,197.62	141.62
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	876.48	105.36
<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	1,262.97	105.36
<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,250.32	283.92
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	982.83	121.09
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	980.25	121.09
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	980.25	121.09
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,470.37	162.14
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,470.37	162.14
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	1,058.89	119.04
<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	1,688.94	119.04
<i>For Electrical Interlock Kit, Add</i>	288.22	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0147	EA		400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,333.81	317.85
26 24 13 00-0148	EA		600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	6,174.35	407.20
26 24 13 00-0149	EA		800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	11,428.01	551.69
26 24 13 00-0150			600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151	EA		30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,372.98	121.09
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0152	EA		30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,370.37	121.09
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0153	EA		60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,372.98	121.09
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0154	EA		60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,059.05	162.14
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0155	EA		100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,102.61	162.14
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0156	EA		200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	4,435.60	212.09
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0157			600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158	EA		100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	1,479.09	119.04
			<i>For Electrical Interlock Kit, Add</i>	300.86	
26 24 13 00-0159	EA		200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	2,222.40	119.04
			<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0160	EA		400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	5,415.91	317.85
			<i>For Electrical Interlock Kit, Add</i>	288.22	
26 24 13 00-0161	EA		600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	6,583.93	407.20
26 24 13 00-0162	EA		800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	11,428.01	551.69
26 24 13 00-0163			Service And Distribution Structures (26 24 13)		
26 24 13 00-0164			Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165			600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166	EA		14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,067.02	1,258.80
26 24 13 00-0167	EA		24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,629.59	1,258.80
26 24 13 00-0168	EA		34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,042.69	1,600.87
26 24 13 00-0169	EA		42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,484.72	1,600.87
26 24 13 00-0170			800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171	EA		14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,469.29	1,457.20
26 24 13 00-0172	EA		24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,014.38	1,457.20
26 24 13 00-0173	EA		34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,484.72	1,806.12
26 24 13 00-0174	EA		42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,881.82	1,806.12
26 24 13 00-0175			1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0176	EA		14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,091.90	1,778.75
26 24 13 00-0177	EA		24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,651.93	1,778.75
26 24 13 00-0178	EA		34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,153.30	2,189.23
26 24 13 00-0179	EA		42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,735.04	2,189.23
26 24 13 00-0180			1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0181	EA		14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,967.17	1,949.79
26 24 13 00-0182	EA		24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,646.79	1,949.79
26 24 13 00-0183	EA		34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,246.05	2,408.16
26 24 13 00-0184	EA		42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,752.81	2,408.16
26 24 13 00-0185			2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0186	EA		14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,220.84	1,956.62
26 24 13 00-0187	EA		24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,960.04	2,202.91
26 24 13 00-0188	EA		34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,070.63	2,202.91
26 24 13 00-0189	EA		42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,339.12	2,326.05
26 24 13 00-0190			3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191	EA		24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,011.40	2,202.91
26 24 13 00-0192	EA		34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,120.34	2,202.91
26 24 13 00-0193	EA		42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,388.83	2,326.05
26 24 13 00-0194			4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195	EA		24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,186.82	2,326.05
26 24 13 00-0196	EA		34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,388.83	2,326.05
26 24 13 00-0197	EA		42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,485.79	2,326.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	618.47	164.19
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	698.06	164.19
26 24 13 00-0201 EA Cable Supports In Pull Box.....	241.07	41.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.81	
26 24 13 00-0202 Underground Pull Sections <small>(26 24 13 00-0164)</small>		
<i>Note: Excludes no bus or terminal.</i>		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	608.94	191.56
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.24	246.29
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,033.24	246.29
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	781.26	191.56
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,104.81	280.50
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,266.31	280.50
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,334.25	362.59
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,417.04	362.59
26 24 13 00-0211 Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	4,807.58	1,140.18
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,262.25	1,239.38
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	6,610.05	1,583.63
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,227.62	1,727.57
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,706.91	1,839.09
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,589.66	1,000.21
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,321.42	950.13
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,672.14	1,030.31
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	5,833.97	1,140.18
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	6,311.30	1,143.19
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	6,950.80	1,276.32
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	192.02	68.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.78	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	233.38	69.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.36	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	1,006.39	82.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.34	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,650.96	177.19
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.08	
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	673.28	246.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.52	
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,819.48	142.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.34	
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	2,493.24	593.83
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,531.36	803.03
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	3,989.55	977.35
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	5,080.69	1,368.27
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,301.27	1,710.34
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	6,881.49	1,710.34
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	8,556.77	2,280.50
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	9,669.32	2,280.50
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	11,382.39	2,714.79
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard.....	13,429.60	2,714.79
26 24 13 00-0240 Main Devices <small>(26 24 13)</small>		
26 24 13 00-0241 Power Circuit Breakers <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector <small>(26 24 13 00-0241)</small>		
<i>Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.</i>		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	8,515.25	1,436.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	860.18	
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	15,457.86	2,394.47
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,435.25	
26 24 13 00-0245 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	34,312.06	4,022.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,392.08	
26 24 13 00-0246 EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	55,349.13	6,512.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,977.53	
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,786.02	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed.....	359.81	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed.....	472.04	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	340.00	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector <small>(26 24 13 00-0241)</small>		
<i>Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.</i>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,916.90 907.34	1,505.10
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,317.63 1,511.34	2,531.30
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,444.32 2,515.20	4,173.22
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59,565.98 4,205.75	6,841.35
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated <small>(26 24 13 00-0241)</small> Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,840.02 789.38	1,313.54
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,438.20 1,315.64	2,202.91
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,580.30 2,192.74	3,694.32
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,987.31 3,651.97	5,951.97
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52,131.37 6,072.20	9,714.71
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated <small>(26 24 13 00-0241)</small> Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,962.87 752.90	1,258.80
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,771.27 1,254.53	2,107.14
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,218.07 2,094.29	3,502.77
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,038.84 3,490.48	5,705.68
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,015.19 5,830.70	9,783.13
26 24 13 00-0268 Molded Case Circuit Breakers Conventional <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,099.79 662.06	1,149.35
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,386.01 720.14	1,149.35
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,859.44 789.38	1,368.27
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,727.36 855.17	1,368.27
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,303.14 937.17	1,641.93
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,135.33 1,036.57	1,641.93
26 24 13 00-0275 EA Shunt Trip, Factory Installed	356.50	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed	82.52	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt <small>(26 24 13 00-0240)</small>		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.26 59.49	99.20
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	711.98 78.94	131.63
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,994.72 118.91	198.13
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,631.97 149.16	248.62
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,197.06 200.04	333.44
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,869.85 256.55	427.59
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,211.74 390.93	651.57
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,211.74 390.93	651.57
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,711.77 547.31	912.23
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,951.34 820.96	1,368.27
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker <small>(26 24 13 00-0240)</small>		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,003.65 356.32	593.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,116.55 390.19	650.33
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,770.58 586.40	977.35
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,184.65 820.96	1,368.27
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,475.26 908.15	1,513.58
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,041.27 1,628.89	2,714.79
26 24 13 00-0295 Branch Or Distribution Devices <small>(26 24 13)</small>		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers <small>(26 24 13 00-0295)</small> Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	549.30 32.84	49.26
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	561.28 41.05	61.57
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,309.62 49.26	73.88
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,892.62 63.63	95.78
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,659.32 78.81	118.22
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,474.07 92.36	138.19
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,272.90 104.26	155.99
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers <small>(26 24 13 00-0295)</small> Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	380.15 24.63	36.94
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	489.41 32.84	49.26
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,298.34 41.05	61.57
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,040.62 45.15	68.41
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,166.17 59.52	88.93
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,869.05 86.20	129.30
26 24 13 00-0311 Meter Devices And Instrumentation <small>(26 24 13)</small> Note: Factory installed accessories.		
26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices <small>(26 24 13 00-0311)</small>		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer	430.78	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer	622.23	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer	732.82	
26 24 13 00-0316 Instruments <small>(26 24 13 00-0311)</small>		
26 24 13 00-0317 EA AC Voltmeter	587.57	
26 24 13 00-0318 EA AC Ammeter	587.57	
26 24 13 00-0319 EA AC Wattmeter	1,569.61	
26 24 13 00-0320 EA Variometer	1,772.62	
26 24 13 00-0321 EA Power Factor Meter	1,416.12	
26 24 13 00-0322 EA Frequency Meter.....	1,563.01	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer	528.16	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,988.84	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	3,327.38	
26 24 13 00-0326 EA Weatherproof, Modify Meter	3,317.42	
26 24 13 00-0327 EA Control Switch Resistor Type 130 V	80.82	
26 24 13 00-0328 EA Metering Instrument: Voltage, Amperes And Watt Hour	4,013.66	
26 24 16 Panelboards <small>(26 24)</small>		
26 24 16 00-0001 Branch Circuit Panelboard <small>(26 24 16)</small> Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002 Assembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0004	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,338.25	389.95
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0005	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,528.67	389.95
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0006	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,742.11	540.47
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0007	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,956.32	540.47
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0008	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,159.41	677.30
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0009	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,367.70	677.30
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0010	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,568.55	779.92
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0011	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,095.20	998.84
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0012	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,264.81	998.84
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0013	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,428.39	1,142.51
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0014	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,690.48	1,142.51
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0015	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,850.42	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0016	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,091.39	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0017	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,242.80	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0018	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,479.66	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0019	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	4,701.85	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0020	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,851.62	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0021	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,080.04	1,573.51
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0022			120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,559.27	376.28
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0024	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,752.65	376.28
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0025	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,207.57	643.09
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0026	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,500.36	643.09
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0027	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,707.41	786.75
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,923.77	786.75
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,115.03	944.11
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,761.20	944.11
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,933.17	1,156.18
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,120.65	1,156.18
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,326.76	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,492.36	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,669.47	1,423.00
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,859.83	1,423.00
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,065.61	1,682.98
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,289.46	1,682.98
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,534.67	1,682.98
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	5,684.32	1,778.75
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,608.58	444.69
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,812.14	444.69
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,041.82	595.20
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,281.28	595.20
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,497.12	732.02
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,728.31	732.02
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,945.10	868.85
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0049 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,173.06	868.85
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0050 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,380.74	1,019.36
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,619.84	1,019.36
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,867.09	1,176.71
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,106.13	1,176.71
		<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,595.07	1,423.00
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	4,765.47	1,423.00
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,042.24	1,580.35
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,299.19	1,580.35
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,475.86	1,724.02
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,738.52	1,724.02
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,508.20	1,529.73
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,696.00	1,607.72
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,986.28	1,693.24
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0063	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,264.19	1,792.43
		<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0064	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,453.14	1,847.17
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0065	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,766.38	1,960.05
		<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0066		120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0067	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,880.33	431.00
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0068	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,086.68	431.00
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0069	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,328.83	567.83
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0070	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,653.11	567.83
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0071	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,173.45	855.16
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0072	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,383.40	855.16
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0073	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,612.70	998.84
		<i>For NEMA 3R Panelboard, Add</i>	1,231.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,806.32	998.84
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,062.40	1,156.18
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,242.55	1,156.18
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,522.19	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,758.78	1,299.86
<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,572.99	1,505.10
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,825.65	1,587.19
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,936.61	1,587.19
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,222.05	1,792.43
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,415.97	1,792.43
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,551.39	1,792.43
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0085 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,514.91	1,648.77
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0086 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,792.75	1,744.55
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0087 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,907.86	1,792.43
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0088 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,216.94	1,901.89
<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0089 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,410.12	1,956.62
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0090 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,598.47	2,025.04
<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0092)</small>		
26 24 16 00-0092 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,793.36	437.85
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0093 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,059.00	437.85
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0094 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,312.90	602.04
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0095 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,578.51	602.04
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0096 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,824.96	752.54
<i>For NEMA 3R Panelboard, Add</i>	1,231.12	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,085.64	752.54
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,358.52	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,607.02	909.90
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,882.11	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,147.04	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,389.09	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,649.77	1,231.44
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,215.19	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,475.54	1,498.25
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,753.96	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,952.10	1,641.93
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,264.03	1,812.96
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,481.29	1,812.96
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0110			480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,269.02	465.21
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,528.18	506.26
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,790.40	629.40
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,360.50	766.23
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,613.13	848.33
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,841.72	916.75
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,095.60	998.84
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0118	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,339.18	1,080.94
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0119	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,560.41	1,149.35
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0120	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,799.14	1,217.76
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0121	EA			100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,059.06 1,353.89 98.93	1,299.86
26 24 16 00-0122	EA			100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,344.90 1,353.89 98.93	1,402.48
26 24 16 00-0123	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,650.58 1,599.27 168.96	1,559.82
26 24 16 00-0124	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,923.87 1,599.27 168.96	1,655.60
26 24 16 00-0125	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,112.65 1,599.27 168.96	1,696.65
26 24 16 00-0126	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,422.35 1,599.27 168.96	1,806.12
26 24 16 00-0127	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,631.94 1,664.51 215.94	1,874.53
26 24 16 00-0128	EA			225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,849.98 1,664.51 215.94	1,933.37
26 24 16 00-0129				277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130	EA			100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,164.60 1,231.12	478.90
26 24 16 00-0131	EA			100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,457.10 1,231.12	478.90
26 24 16 00-0132	EA			100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,741.28 1,231.12	636.25
26 24 16 00-0133	EA			100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,028.01 1,231.12	636.25
26 24 16 00-0134	EA			100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,319.88 1,231.12	786.75
26 24 16 00-0135	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,605.11 1,231.12	786.75
26 24 16 00-0136	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,895.50 1,231.12	944.11
26 24 16 00-0137	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,184.55 1,353.89 98.93	944.11
26 24 16 00-0138	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,503.02 1,353.89 98.93	1,108.30
26 24 16 00-0139	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,765.14 1,353.89 98.93	1,108.30
26 24 16 00-0140	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,043.71 1,353.89 98.93	1,115.14
26 24 16 00-0141	EA			100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,342.14 1,353.89 98.93	1,115.14
26 24 16 00-0142	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,094.16 1,599.27 168.96	1,546.15
26 24 16 00-0143	EA			225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,398.99 1,599.27 168.96	1,546.15

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0144	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,627.63	1,628.24
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0145	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,963.21	1,737.70
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0146	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,209.32	1,737.70
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0147	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,585.00	1,901.89
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0148			277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,800.41	588.35
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0150	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,100.50	588.35
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0151	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,388.21	779.92
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0152	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	4,039.94	779.92
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0153	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,320.41	985.15
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0154	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,600.38	985.15
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0155	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,870.06	1,128.82
			<i>For NEMA 3R Panelboard, Add</i>	1,231.12	
26 24 16 00-0156	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,117.38	1,128.82
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,382.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,668.20	1,286.17
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,910.63	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,166.31	1,423.00
			<i>For NEMA 3R Panelboard, Add</i>	1,353.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	7,960.21	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,275.08	1,682.98
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,500.46	1,840.32
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0164	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	8,855.44	1,840.32
			<i>For NEMA 3R Panelboard, Add</i>	1,599.27	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0165	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,103.91	2,011.36
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0166	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,361.75	2,011.36
			<i>For NEMA 3R Panelboard, Add</i>	1,664.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	11,048.41 1,664.51 215.94	2,239.86
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	13,435.55 1,664.51 215.94	2,688.64
26 24 16 00-0169 Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	671.83	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	775.55	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,067.17	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,233.99	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,398.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,569.06	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,705.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,870.03	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,074.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,211.54	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,421.68	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,002.63	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,140.22	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,835.42	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,043.00	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,240.23	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,820.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,064.41	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,281.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0193 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,329.95	
26 24 16 00-0194 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,426.15	
26 24 16 00-0195 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,702.10	
26 24 16 00-0196 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,865.79	
26 24 16 00-0197 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,018.41	
26 24 16 00-0198 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.54	
26 24 16 00-0199 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.84	
26 24 16 00-0200 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,595.84	
26 24 16 00-0201 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,857.79	
26 24 16 00-0202 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,990.14	
26 24 16 00-0203 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,188.53	
26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,653.23	
26 24 16 00-0206 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,782.67	
26 24 16 00-0207 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,591.95	
26 24 16 00-0208 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,784.49	
26 24 16 00-0209 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,970.43	
26 24 16 00-0210 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,535.31	
26 24 16 00-0211 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,771.42	
26 24 16 00-0212 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,986.72	
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	759.28	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	894.89	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,011.14	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,152.73	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,328.22	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,472.88	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,699.55	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,833.77	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,983.21	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,218.58	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,443.93	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,877.75	
For Door-In-Door (Hinged) Trim Front, Add	215.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0227				Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,173.48	
26 24 16 00-0229	EA			100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,324.96	
26 24 16 00-0230	EA			100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,537.00	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0231	EA			225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,259.52	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0232	EA			225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,449.18	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0233	EA			225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,632.34	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0234	EA			400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,619.39	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	98.93	
26 24 16 00-0235	EA			400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,848.13	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	168.96	
26 24 16 00-0236	EA			400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,036.92	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	215.94	
26 24 16 00-0237				Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238	EA			100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,417.40	
26 24 16 00-0239	EA			100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,545.49	
26 24 16 00-0240	EA			100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,653.59	
26 24 16 00-0241	EA			225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,787.66	
26 24 16 00-0242	EA			225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,960.02	
26 24 16 00-0243	EA			225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,092.77	
26 24 16 00-0244	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,441.04	
26 24 16 00-0245	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,567.11	
26 24 16 00-0246	EA			400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,709.02	
26 24 16 00-0247	EA			600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,002.05	
26 24 16 00-0248	EA			600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,212.99	
26 24 16 00-0249	EA			600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,646.81	
26 24 16 00-0250				Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,824.08	
26 24 16 00-0252	EA			100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,967.41	
26 24 16 00-0253	EA			100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,175.07	
26 24 16 00-0254	EA			225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,016.04	
26 24 16 00-0255	EA			225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,190.66	
26 24 16 00-0256	EA			225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,362.54	
26 24 16 00-0257	EA			400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,991.04	
26 24 16 00-0258	EA			400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,226.30	
26 24 16 00-0259	EA			400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,426.12	
26 24 16 00-0260				480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
				Note: As manufactured by Square D or equal.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,073.95	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,183.27	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,641.58	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,834.10	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,001.01	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,011.01	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,123.97	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,310.17	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,484.40	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,663.55	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,912.07	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,175.79	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,244.26	
26 24 16 00-0276 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,438.24	
26 24 16 00-0277 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,574.43	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0278 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,855.83	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0279 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,708.90	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0280 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,879.19	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0281 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,101.05	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0282 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,256.98	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0283 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,499.46	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0284 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,716.23	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,709.51	
26 24 16 00-0287 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,818.83	
26 24 16 00-0288 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,262.09	
26 24 16 00-0289 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,563.68	
26 24 16 00-0290 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,718.05	
26 24 16 00-0291 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,728.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0292 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,822.21	
26 24 16 00-0293 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,981.46	
26 24 16 00-0294 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,218.36	
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,382.22	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,597.92	
26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,946.73	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,015.21	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,064.40	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,194.94	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,585.41	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,425.94	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,577.43	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,772.34	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,928.26	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,153.60	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,367.83	
26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
<i>Note: As manufactured by Square D or equal.</i>		
26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,116.57	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,226.52	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,421.68	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		98.93
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,704.30	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		98.93
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,898.22	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		168.96
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,063.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		215.94
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,093.80	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		98.93
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,226.77	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		168.96
26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,411.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		215.94
26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,585.87	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		98.93
26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,766.09	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		168.96
26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,015.64	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>		215.94
26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,395.16	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0325 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,464.26	
26 24 16 00-0326 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,672.11	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0327 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,739.81	
26 24 16 00-0328 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,876.50	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0329 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,157.23	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0330 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,062.54	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0331 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,234.88	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0332 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,454.39	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0333 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,680.74	
For Door-In-Door (Hinged) Trim Front, Add	98.93	
26 24 16 00-0334 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,925.45	
For Door-In-Door (Hinged) Trim Front, Add	168.96	
26 24 16 00-0335 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,142.19	
For Door-In-Door (Hinged) Trim Front, Add	215.94	
26 24 16 00-0336 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,752.13	
26 24 16 00-0338 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,862.08	
26 24 16 00-0339 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,047.84	
26 24 16 00-0340 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,324.81	
26 24 16 00-0341 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,627.80	
26 24 16 00-0342 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,780.98	
26 24 16 00-0343 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,812.72	
26 24 16 00-0344 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,925.00	
26 24 16 00-0345 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,082.79	
26 24 16 00-0346 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,319.83	
26 24 16 00-0347 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,484.39	
26 24 16 00-0348 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,700.09	
26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,015.68	
26 24 16 00-0351 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,084.78	
26 24 16 00-0352 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,401.69	
26 24 16 00-0353 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,365.96	
26 24 16 00-0354 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,497.01	
26 24 16 00-0355 EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,886.81	
26 24 16 00-0356 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,779.57	
26 24 16 00-0357 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,933.11	
26 24 16 00-0358 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,125.68	
26 24 16 00-0359 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,352.02	



Electrical	26
Low-Voltage Electrical Distribution	26 20
Switchboards and Panelboards	26 24

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0360 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,579.18	
26 24 16 00-0361 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,792.79	
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,986.29	406.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.16	
26 24 16 00-0365 EA 400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,300.44	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.10	
26 24 16 00-0366 EA 400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,537.03	406.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.10	
26 24 16 00-0367 EA 600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,968.81	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.85	
26 24 16 00-0368 EA 600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,151.93	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.85	
26 24 16 00-0369 EA 600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,352.87	668.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.85	
26 24 16 00-0370 EA 800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,683.45	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	532.84	
26 24 16 00-0371 EA 800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,860.65	890.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	534.47	
26 24 16 00-0372 EA 800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,931.38	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	532.84	
26 24 16 00-0373 EA 800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,512.32	888.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	532.84	
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,946.53	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,341.93	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,665.21	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,059.80	1,336.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	801.71	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,702.55	415.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	249.32	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,833.44	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,061.93	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,734.43	471.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.80	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,537.02	772.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,915.46	774.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	464.82	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,225.72	772.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.59	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,550.05	1,032.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	619.76	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,995.67	1,029.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	617.57	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,441.31 617.57	1,029.26
26 24 16 00-0389 Residential Lighting And Power Panelboards (26 24 16 00-0001) See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center (26 24 16 00-0389) Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	176.46	68.41
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	606.21	273.66
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	908.76	390.64
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,937.95	821.10
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,116.58	889.37
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	239.25	75.26
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	411.16	82.10
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	242.89	75.26
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	270.30	82.10
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	981.40	390.64
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,227.12	889.37
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	294.52	75.26
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,140.23	821.10
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,282.18	821.10
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,476.61	889.37
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	8,128.41	1,368.27
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,199.30	821.10
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,487.68	889.37
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	8,900.09	1,368.27
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,384.82	821.10
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,651.88	889.37
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,369.53	821.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,506.16	889.37
26 24 16 00-0422 Residential Type Assembled Load Center (26 24 16 00-0389)		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0423)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	909.23	390.64
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,100.58	456.31
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	926.60	390.64
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,105.32	456.31
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,585.95	608.19
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,875.25	729.97
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,146.90	842.17
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,360.27	911.68
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,533.97	1,368.27
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,647.53	608.19
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,933.68	729.97
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,205.32	842.17
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,415.54	911.68
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,715.56	1,368.27
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,295.94	1,520.29
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,485.43	1,520.29
26 24 16 00-0440 Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,189.01	456.31
26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	1,774.09	684.14
26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,241.11	456.31
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,821.46	684.14
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,236.90	842.17
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,440.19	912.23
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	2,979.46	1,095.02
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	3,597.13	1,368.27
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,292.17	842.17
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,502.39	911.68
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,191.23	1,094.20
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,810.30	1,368.27
26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers.....	4,343.32	1,520.29
26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,532.80	1,520.29
26 24 16 00-0455 Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,182.69	456.31
26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,751.98	684.14
26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,004.74	729.97

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0459	EA		200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,300.89	842.58
26 24 16 00-0460	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,527.04	912.23
26 24 16 00-0461	EA		200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,348.77	1,216.39
26 24 16 00-0462	EA		200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,020.53	729.97
26 24 16 00-0463	EA		200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,331.65	842.17
26 24 16 00-0464	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,533.97	911.68
26 24 16 00-0465	EA		200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,261.92	1,216.39
26 24 16 00-0466	EA		400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	5,922.38	1,520.29
26 24 16 00-0467	EA		400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,238.19	1,520.29
26 24 16 00-0468			Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA		200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,969.18	912.23
26 24 16 00-0470	EA		200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,102.43	1,368.27
26 24 16 00-0471	EA		200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,062.95	911.68
26 24 16 00-0472	EA		200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,197.17	1,368.27
26 24 16 00-0473			Panel Mounted Accessories And Fuseholders <small>(26 24 16 00-0001)</small>		
26 24 16 00-0474			Midget Finger-Safe Fuse Holders <small>(26 24 16 00-0473)</small> Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA		1 Pole Midget Finger-Safe Fuse Holder	78.29	24.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0476	EA		1 Pole With Indicator Midget Finger-Safe Fuse Holder	89.45	24.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0477	EA		2 Pole Midget Finger-Safe Fuse Holder	124.54	36.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 24 16 00-0478	EA		2 Pole With Indicators Midget Finger-Safe Fuse Holder	153.67	36.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 24 16 00-0479	EA		3 Pole Midget Finger-Safe Fuse Holder	179.81	49.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0480	EA		3 Pole With Indicators Midget Finger-Safe Fuse Holder	218.50	49.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0481	EA		3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	250.87	49.26
			Note: With indicators.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0482	EA		3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	207.96	49.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 24 16 00-0483	EA		4 Pole Midget Finger-Safe Fuse Holder	226.16	61.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 16 00-0484	EA		4 Pole With Indicator Midget Finger-Safe Fuse Holder	268.66	61.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 24 16 00-0485	EA		12 To 24 Volt DC Midget Finger-Safe Fuse Holder	89.49	24.63
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0486	EA		20 To 24 Volt DC Midget Finger-Safe Fuse Holder	95.42	24.63
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0487	EA		35 To 48 Volt DC Midget Finger-Safe Fuse Holder	90.58	24.63
			Note: With indicator.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 24 16 00-0488			Removal And Reinstallation Of Panelboards <small>(26 24 16 00-0001)</small> Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489	EA		Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers	1,716.71	
			Note: Includes removal and reinstallation of main wiring to panelboard.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	513.10	
26 24 16 00-0490	EA		Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	90.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.68	
26 24 16 00-0491	EA		Panelboard Filler Plate, Fits 1" Opening	6.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.28	
26 24 19			Motor-Control Centers <small>(26 24)</small>		
26 24 19 00-0001			Combination Starters With Molded Case Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0002				230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 1-Speed non-reversing.		
26 24 19 00-0003	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	2,313.00	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0004	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....	2,733.36	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0005	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....	4,047.07	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0006	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	7,305.91	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0007	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	14,664.79	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0008	EA			230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	24,649.33	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0009				480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 1-Speed non-reversing.		
26 24 19 00-0010	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....	2,313.00	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0011	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....	2,733.36	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0012	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	4,047.07	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0013	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	7,305.91	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0014	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	14,664.79	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0015	EA			480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....	24,649.33	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0016				230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 1-Speed reversing.		
26 24 19 00-0017	EA			230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	3,331.54	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0018	EA			230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....	4,427.32	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0019	EA			230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....	6,327.99	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0020	EA			230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	11,043.42	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0021	EA			230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	21,688.81	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0022	EA			230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	37,350.84	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0023				480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 1-Speed reversing.		
26 24 19 00-0024	EA			480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....	3,331.54	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0025	EA			480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....	4,427.32	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0026	EA			480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	6,327.99	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0027	EA			480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	11,043.42	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0028	EA			480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	21,688.81	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0029	EA			480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....	37,350.84	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0030				230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit.....	4,070.66	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0032	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit.....	5,576.00	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0033	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit.....	8,177.54	225.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0034	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit.....	14,560.60	256.29
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0035	EA			230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit.....	24,076.09	300.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0036				480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
				Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037	EA			480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit.....	4,070.66	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....5,576.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 127.52		212.53
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....8,177.54 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 135.01		225.03
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....14,560.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....24,076.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 180.03		300.03
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....4,662.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.01		125.01
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....6,919.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.76		131.27
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....9,456.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.51		137.52
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....17,730.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.51		162.52
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....30,685.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 112.52		187.52
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,662.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 75.01		125.01
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....6,919.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.76		131.27
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....9,456.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 82.51		137.52
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....17,730.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 97.51		162.52
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....30,685.18 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 112.52		187.52
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit .....6,876.56		131.27
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit .....10,507.44		143.76
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....17,681.18		162.52
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....27,327.46		187.52
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....46,724.84		250.03
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit .....6,876.56		131.27
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....10,507.44		143.76
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....17,681.18		162.52
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....27,327.46		187.52
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....46,724.84		250.03
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....4,737.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01		200.02
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....6,109.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76		231.28
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....10,687.14 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....18,168.96 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52		312.54
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....24,949.40 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04		400.05
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit .....4,737.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.01		200.02
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit .....6,109.81 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 138.76		231.28
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....10,687.14 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 153.77		256.29
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....18,168.96 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 187.52		312.54
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit .....24,949.40 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 240.04		400.05



		MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	19,327.67	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	19,327.67	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0092			Combination Starters With Current Limiting Circuit Breakers <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0095	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0096	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0097	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0098	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0099	EA		230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0100			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,079.06	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0102	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,499.42	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0103	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,387.14	137.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0104	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,893.25	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0105	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	17,672.93	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0106	EA		480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	28,786.06	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0107			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA		230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,091.13	125.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0109	EA		230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,178.28 78.76	131.27
26 24 19 00-0110	EA		230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,637.85 82.51	137.52
26 24 19 00-0111	EA		230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,596.24 97.51	162.52
26 24 19 00-0112	EA		230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,636.53 112.52	187.52
26 24 19 00-0113			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0114	EA		480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,091.13 75.01	125.01
26 24 19 00-0115	EA		480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,178.28 78.76	131.27
26 24 19 00-0116	EA		480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,637.85 82.51	137.52
26 24 19 00-0117	EA		480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,596.24 97.51	162.52
26 24 19 00-0118	EA		480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,636.53 112.52	187.52
26 24 19 00-0119			230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,817.30 120.01	200.02
26 24 19 00-0121	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,311.85 127.52	212.53
26 24 19 00-0122	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,465.81 135.01	225.03
26 24 19 00-0123	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,083.21 153.77	256.29
26 24 19 00-0124	EA		230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,000.07 180.03	300.03
26 24 19 00-0125			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,817.30 120.01	200.02
26 24 19 00-0127	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,311.85 127.52	212.53
26 24 19 00-0128	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,465.81 135.01	225.03
26 24 19 00-0129	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,083.21 153.77	256.29
26 24 19 00-0130	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,000.07 180.03	300.03
26 24 19 00-0131			230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,534.63 112.52	187.52
26 24 19 00-0133	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,780.12 120.01	200.02
26 24 19 00-0134	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,888.80 127.52	212.53
26 24 19 00-0135	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,385.72 146.27	243.78
26 24 19 00-0136	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,750.93 172.53	287.54
26 24 19 00-0137			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 1 wind.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,534.63	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	7,780.12	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,888.80	212.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	127.52	
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	20,385.72	243.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.27	
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	33,750.93	287.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.53	
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.26	
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	7,601.62	131.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.76	
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,216.52	143.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.26	
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	20,618.11	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	31,213.87	187.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.52	
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	51,336.31	250.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.02	
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,484.10	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	6,841.35	231.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.76	
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	11,966.78	256.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.77	
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	21,142.57	312.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.52	
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	31,168.52	400.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	240.04	
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,484.10	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	6,841.35	231.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.76	
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	11,966.78	256.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.77	
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	21,142.57	312.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.52	
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	31,168.52	400.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	240.04	
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit	19,947.00	162.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.51	
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit	21,126.85	200.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.01	
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit	23,248.00	231.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.76	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0171 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	34,758.72	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0172 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	47,102.34	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	66,001.65	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	19,947.05	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.53	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	21,126.85	200.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	23,248.00	231.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	34,758.72	256.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	47,102.34	312.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	66,001.65	400.05
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19)		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,062.68	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,830.46	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,062.68	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,830.46	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	4,741.92	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,335.23	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	13,503.83	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	24,055.90	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,303.49	125.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,902.07	131.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,816.96	137.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,717.97	162.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,543.84	187.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	33,196.85	250.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0203				480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
				Note: 1-Speed reversing.		
26 24 19 00-0204	EA			10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,303.49	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0205	EA			25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	4,902.07	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0206	EA			50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	7,816.96	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0207	EA			100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	12,717.97	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0208	EA			200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	19,543.84	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0209	EA			400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	33,196.85	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0210				230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
				Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211	EA			10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,889.39	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0212	EA			15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,325.68	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0213	EA			30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,339.38	225.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0214	EA			50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	14,841.13	256.29
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0215	EA			100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	23,603.50	300.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0216				480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
				Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217	EA			10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	3,889.39	200.02
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0218	EA			25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,325.68	212.53
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.52	
26 24 19 00-0219	EA			50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	8,339.38	225.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.01	
26 24 19 00-0220	EA			100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	14,841.13	256.29
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0221	EA			200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	23,603.50	300.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.03	
26 24 19 00-0222				230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
				Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223	EA			7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,399.71	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0224	EA			15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,686.66	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0225	EA			30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,608.03	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0226	EA			50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,323.36	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0227				480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
				Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228	EA			10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,399.71	125.01
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.01	
26 24 19 00-0229	EA			25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	6,686.66	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0230	EA			50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	9,608.03	137.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.51	
26 24 19 00-0231	EA			100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	19,323.36	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0232				230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
				Note: Auto-transformer.		
26 24 19 00-0233	EA			15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	6,641.35	131.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0234	EA			30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	11,692.14	143.76
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0235	EA			50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	19,450.67	162.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0236	EA			100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	25,959.34	187.52
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0237	EA			200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	43,587.23	250.03
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0238			480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0239	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	6,641.35	131.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.76	
26 24 19 00-0240	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	11,692.14	143.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.26	
26 24 19 00-0241	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	19,450.67	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0242	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	25,959.34	187.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.52	
26 24 19 00-0243	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	43,587.23	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.02	
26 24 19 00-0244			230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0245	EA		10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,765.51	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0246	EA		25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,295.39	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0247	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	9,979.34	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0248	EA		75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	19,815.45	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0249			480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0250	EA		15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	4,765.51	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0251	EA		40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,295.39	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0252	EA		75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	9,979.34	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0253	EA		150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	19,815.45	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0254			230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0255	EA		7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,325.52	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0256	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0257	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0258	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0259	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0260	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0261			480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0262	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	19,325.52	162.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	97.51	
26 24 19 00-0263	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	20,514.00	200.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.01	
26 24 19 00-0264	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,656.74	231.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.76	
26 24 19 00-0265	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	34,268.87	256.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.77	
26 24 19 00-0266	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	46,722.54	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	187.52	
26 24 19 00-0267	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	63,397.04	400.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.04	
26 24 19 00-0268			Starter Accessories (26 24 19) Note: Additional options or accessories for the Combination Starters		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0269 Starter Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer.....	151.17	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer.....	336.64	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer.....	481.22	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes.....	120.84	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes.....	170.48	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes.....	287.00	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter.....	71.21	
26 24 19 00-0277 EA N.O. Overload Relay Alarm.....	60.42	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary.....	111.91	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton.....	138.36	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton.....	270.61	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select.....	138.36	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V.....	158.71	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer.....	191.26	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To.....	225.85	
26 24 19 00-0285 EA Blank Devices Panel.....	42.73	
26 24 19 00-0286 EA Oversize Or Special Color Starter.....	67.14	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer.....	597.04	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non Resettable.....	542.10	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable.....	793.53	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press.....	67.14	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw.....	95.63	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard.....	67.14	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In.....	95.63	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility.....	95.63	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type.....	138.36	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay.....	343.86	
26 24 19 00-0297 EA Heater Module.....	63.95	
26 24 19 00-0298 EA LAM - Long Acceleration Module.....	397.29	
26 24 19 00-0299 EA JAM - Jam Protection Module.....	455.44	
26 24 19 00-0300 EA PUM - Phase Unbalance Module.....	864.36	
26 24 19 00-0301 EA ULM - Underload Module.....	414.74	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer.....	91.09	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit.....	170.55	
26 24 19 00-0304 EA Type SIS Control Wire.....	71.71	
26 24 19 00-0305 EA Ring Or Spade Terminals Control.....	91.09	
26 24 19 00-0306 EA Ring Terminals Power.....	91.09	
26 24 19 00-0307 EA 14 Gauge Control Wire.....	71.71	
26 24 19 00-0308 EA Wiremakers.....	91.09	
26 24 19 00-0309 EA Wiring Diagram On Door.....	54.26	
26 24 19 00-0310 EA Special Color Or Type Control Wire.....	65.89	
26 24 19 00-0311 EA Current Transformer 12.5 VA.....	517.45	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	1,653.14	
26 24 19 00-0313 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	1,860.50	
26 24 19 00-0314 Control Relays And Special Components <small>(26 24 19 00-0268)</small>		
26 24 19 00-0315 EA 600 Volt, 2 Pole, Control Relays.....	480.88	
26 24 19 00-0316 EA 600 Volt, 4 Pole, Control Relays.....	572.93	
26 24 19 00-0317 EA 600 Volt, 6 Pole, Control Relays.....	677.47	
26 24 19 00-0318 EA 600 Volt, 8 Pole, Control Relays.....	757.32	
26 24 19 00-0319 EA Pneumatic Timer, Control Relays.....	626.22	
26 24 19 00-0320 EA Motor Driven Timer, Control Relays.....	1,631.83	
26 24 19 00-0321 EA 7 Days Time Switch, Control Relays.....	2,053.88	
26 24 19 00-0322 EA 24 Hour Time Switch, Control Relays.....	575.94	
26 24 19 00-0323 EA Phase Voltage, Control Relays.....	979.70	
26 24 19 00-0324 EA Two Circuit Alternator, Control Relays.....	1,371.28	
26 24 19 00-0325 EA Manual 120 Volt, Control Relays.....	134.08	
26 24 19 00-0326 EA Over-Current Relay, Control Relays.....	3,697.75	
26 24 19 00-0327 EA UV-Relay, Control Relays.....	3,131.85	
26 24 19 00-0328 EA Over-Current Relay, Control Relays.....	3,131.85	
26 24 19 00-0329 EA Teleductor, Control Relays.....	1,010.18	
26 24 19 00-0330 EA Current Transducer, Control Relays.....	2,716.66	
26 24 19 00-0331 EA Watt Transducer, Control Relays.....	5,433.33	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	184.36	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	275.78	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	310.82	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	345.87	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	310.82	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	345.87	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	364.15	
26 24 19 00-0339 Circuit Breaker Modifications/Accessories <small>(26 24 19 00-0268)</small>		
26 24 19 00-0340 EA Shunt Trip, Circuit Breaker.....	262.97	
26 24 19 00-0341 EA Auxiliary Switch, Circuit Breaker.....	90.83	
26 24 19 00-0342 EA Key Interlock, Circuit Breaker.....	326.70	
26 24 19 00-0343 EA GFR Ground Fault, Circuit Breaker.....	1,506.04	
26 24 19 00-0344 EA Seltronic Breaker, Circuit Breaker.....	872.42	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION UNIT COST UNIT COST

26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)

Table with columns for description, unit cost, and demolition cost. Includes entries for various circuit breaker types and sizes (e.g., 100/100, 100/150, 150/150).

26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)

Table with columns for description, unit cost, and demolition cost. Includes entries for 30 To 60 Amperes, 100 Amperes, 200 Amperes, 400 Amperes, 600 Amperes, 800 Amperes, and 1,200 Amperes switches.

26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)

Table with columns for description, unit cost, and demolition cost. Includes entries for various transformer ratings (500 VA, 750 VA, 1,000 VA, 1,500 VA, 2,000 VA, 3,000 VA, 5,000 VA, 7,500 VA, 9,000 VA, 10,000 VA, 15,000 VA, 20,000 VA, 30,000 VA).



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	9,942.07	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	13,771.60	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	655.17	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	1,432.42	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	590.06	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	1,432.42	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	795.56	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	844.39	
26 24 19 00-0405 EA Add For Additional Circuits	106.59	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	2,954.36	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	3,094.76	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	2,728.51	
26 24 19 00-0409 EA Add For Demand Attachment	697.69	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	815.91	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,408.00	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,639.96	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	1,367.31	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	1,471.08	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	1,125.18	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors	25,114.12	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors	36,573.46	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors	48,059.26	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors	73,155.07	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	468.27	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	468.27	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	647.38	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,184.70	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	647.38	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	826.48	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	826.48	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,182.54	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	826.48	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,182.54	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,005.59	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,260.62	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,005.59	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,182.54	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,260.62	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,260.62	
26 24 19 00-0438 EA Bus Duct Transition Pull Box	994.78	
26 24 19 00-0439 EA Throat And Transition To Substation	1,920.41	
26 24 19 00-0440 EA Service Entrance Label	415.89	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition	869.32	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus	463.19	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width	274.63	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	274.63	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth	849.56	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth	958.23	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space	81.99	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof	221.28	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	46.43	
26 24 19 00-0451 EA Standard Structure 150 Watt Space	199.55	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control	563.97	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High	199.55	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	364.35	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted	5,197.78	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back	6,007.88	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted	6,013.69	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	750.06	375.04
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,125.09	562.57
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,250.15	625.08
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,500.32	750.10
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	125.01	62.51
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	750.06	375.04
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,125.09	562.57



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0466	EA		Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,250.15	625.08
26 24 19 00-0467	EA		Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,500.32	750.10
26 24 19 00-0468	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	125.01	62.51
26 24 19 00-0469	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	875.13	437.55
26 24 19 00-0470	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,125.09	562.57
26 24 19 00-0471	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,500.32	750.10
26 24 19 00-0472	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,749.99	874.98
26 24 19 00-0473	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	187.52	93.76
26 24 19 00-0474	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	1,000.12	500.06
26 24 19 00-0475	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,375.28	687.59
26 24 19 00-0476	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,749.99	874.98
26 24 19 00-0477	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,999.90	1,000.00
26 24 19 00-0478	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	250.03	125.01
26 24 19 00-0479	EA		Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	1,000.12	500.06
26 24 19 00-0480	EA		Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,500.32	750.10
26 24 19 00-0481	EA		Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,875.03	937.49
26 24 19 00-0482	EA		Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	2,125.40	1,062.76
26 24 19 00-0483	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	250.03	125.01
26 24 19 00-0484			Motor Control Centers (26 24 19)		
26 24 19 00-0485			2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0487	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0488	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	15,990.40	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0489	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	16,052.94	281.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>168.78</i>	
26 24 19 00-0490	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	17,053.37	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0491	EA		2.400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	17,115.86	343.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>206.27</i>	
26 24 19 00-0492	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	17,178.35	375.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>225.02</i>	
26 24 19 00-0493	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	17,303.42	437.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>262.54</i>	
26 24 19 00-0494	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	17,428.41	500.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>300.04</i>	
26 24 19 00-0495	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	29,244.56	562.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>337.53</i>	
26 24 19 00-0496	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	31,397.10	625.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>375.05</i>	
26 24 19 00-0497	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	23,679.68	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0498	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	24,672.20	268.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>161.27</i>	
26 24 19 00-0499	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	28,024.89	293.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>176.27</i>	
26 24 19 00-0500	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	31,188.90	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0501	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	33,941.73	362.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>217.54</i>	
26 24 19 00-0502	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	37,184.52	387.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>232.53</i>	
26 24 19 00-0503	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	40,425.38	412.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>247.52</i>	
26 24 19 00-0504	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	44,273.10	450.05
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>270.04</i>	
26 24 19 00-0505	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	51,510.95	500.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>300.04</i>	
26 24 19 00-0506	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	55,804.72	531.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>318.81</i>	
26 24 19 00-0507	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	85,153.80	625.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>375.05</i>	
26 24 19 00-0508	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	90,736.08	687.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>412.58</i>	
26 24 19 00-0509	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp	95,598.23	750.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>450.10</i>	
26 24 19 00-0510	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp	104,094.80	812.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>487.64</i>	
26 24 19 00-0511	EA		2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp	22,347.60	250.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>150.02</i>	
26 24 19 00-0512	EA		2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp	22,410.14	281.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>168.78</i>	
26 24 19 00-0513	EA		2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp	22,472.62	312.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>187.52</i>	
26 24 19 00-0514	EA		2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp	22,535.11	343.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>206.27</i>	
26 24 19 00-0515	EA		2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp	22,601.39	375.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>225.02</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,663.96 243.79	406.30
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,726.46 262.54	437.55
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,976.42 337.53	562.57
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,023.85 375.05	625.08
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,148.98 412.58	687.59
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,290.13 450.10	750.10
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,795.77 75.01	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,061.05 75.01	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,845.53 75.01	
 26 24 19 00-0525 4.8 KV Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,443.63 225.02	375.04
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,506.20 243.79	406.30
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,568.70 262.54	437.55
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,631.24 281.30	468.80
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,622.16 300.04	500.06
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,684.74 318.81	531.32
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,747.13 337.53	562.57
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,809.75 356.31	593.83
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,872.19 375.05	625.08
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,876.65 487.64	812.73
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,001.16 525.00	874.98
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,144.21 562.51	937.49
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,269.08 599.97	1,000.00
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,198.74 225.02	375.04
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,526.59 243.79	406.30
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,587.21 262.54	437.55
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,766.77 281.30	468.80
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,482.00 300.04	500.06
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,737.39 318.81	531.32
26 24 19 00-0545 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,793.63 337.53	562.57
26 24 19 00-0546 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,825.95 356.31	593.83
26 24 19 00-0547 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,899.31 375.05	625.08
26 24 19 00-0548 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,710.32 393.81	656.33
26 24 19 00-0549 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,583.84 431.32	718.84
26 24 19 00-0550 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65,604.76 450.10	750.10
26 24 19 00-0551 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69,398.08 468.81	781.35
26 24 19 00-0552 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74,700.10 487.64	812.73
26 24 19 00-0553 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118,295.89 599.97	1,000.00
26 24 19 00-0554 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131,533.71 637.62	1,062.76
26 24 19 00-0555 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158,044.18 675.05	1,125.14
26 24 19 00-0556 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167,148.90 675.05	1,125.14

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,922.11 262.54	437.55
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,984.65 281.30	468.80
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,047.10 300.04	500.06
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,109.68 318.81	531.32
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,169.23 337.53	562.57
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,231.85 356.31	593.83
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,294.29 375.05	625.08
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,356.83 393.81	656.33
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,419.42 412.58	687.59
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,794.13 525.00	874.98
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,106.82 562.51	937.49
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0569 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,240.22 599.97	1,000.00
26 24 19 00-0570 EA Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,982.24 75.01	
26 24 19 00-0571 EA Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,284.35 75.01	
26 24 19 00-0572 EA Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,733.10 75.01	
26 24 19 00-0573 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes	13,015.99	250.03
26 24 19 00-0575 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	15,663.44	375.04
26 24 19 00-0576 EA 2.4/4.8 KV NEMA 3 Weather Resistant	5,094.85	
26 24 19 00-0577 EA 2.4/4.8 KV Space Heaters	233.24	18.75
26 24 19 00-0578 EA 2.4/4.8 KV Potential Transformer Fused.....	1,476.02	
26 24 19 00-0579 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	791.96	
26 24 19 00-0580 EA 2.4/4.8 KV Control Transformer 4 KVA Max	2,358.61	
26 24 19 00-0581 EA 2.4/4.8 KV Pushbuttons Each	151.05	
26 24 19 00-0582 EA 2.4/4.8 KV Selector Switch Each	500.64	
26 24 19 00-0583 EA 2.4/4.8 KV Indicating Light.....	151.05	
26 24 19 00-0584 EA 2.4/4.8 KV Push To Test Light.....	457.48	
26 24 19 00-0585 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type	1,217.07	
26 24 19 00-0586 EA 2.4/4.8 KV AC Ammeter, Switchboard Type	1,217.07	
26 24 19 00-0587 EA 2.4/4.8 KV Power Factor Meter.....	3,640.41	
26 24 19 00-0588 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,509.66	
26 24 19 00-0589 EA 2.4/4.8 KV Operation Counter.....	494.98	18.75
26 24 19 00-0590 EA 2.4/4.8 KV Phase Failure Protection	3,538.84	62.51
26 24 19 00-0591 EA 2.4/4.8 KV Ground Protection	6,734.80	31.25
26 24 19 00-0592 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,647.08	31.25
26 24 19 00-0593 EA 2.4/4.8 KV Lightning Arresters.....	4,287.59	18.75
26 24 19 00-0594 EA 2.4/4.8 KV Portable Lifting Mechanism.....	6,195.22	
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Timing Relay.....	615.05	62.51
26 24 19 00-0596 EA 2.4/4.8 KV Auxiliary Control Relay.....	449.07	62.51
26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0484)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,328.27	374.90
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,308.14	663.61
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,773.65	849.69
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,442.31	1,368.27
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,210.73	1,505.10
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,661.14	1,669.29
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	7,756.08	1,956.62
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	13,130.33	2,279.53
26 24 19 00-0606 Main Lugs Only (26 24 19 00-0484)		
26 24 19 00-0607 EA 600 Amperes Incoming Section, Main Lugs.....	1,096.97	478.90
26 24 19 00-0608 EA 800 Amperes Incoming Section, Main Lugs.....	1,193.84	478.90



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 19 00-0609	EA		1,200 Amperes Incoming Section, Main Lugs.....	1,685.09	752.54
	26 24 19 00-0610	EA		2,000 Amperes Incoming Section, Main Lugs.....	4,011.75	1,368.27
	26 24 19 00-0611	EA		3,000 Amperes Incoming Section, Main Lugs.....	6,082.97	1,983.99
	26 24 19 00-0612	EA		4,000 Amperes Incoming Section, Main Lugs.....	8,650.87	2,736.54
	26 24 19 00-0613			Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
				Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
	26 24 19 00-0614	EA		225 Amperes, Main Circuit Breaker Section.....	6,740.59	662.11
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0615	EA		400 Amperes, Main Circuit Breaker Section.....	14,156.61	850.52
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0616	EA		600 Amperes, Main Circuit Breaker Section.....	14,819.85	1,324.75
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0617	EA		800 Amperes, Main Circuit Breaker Section.....	20,904.07	1,324.75
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0618	EA		1,200 Amperes, Main Circuit Breaker Section.....	30,141.59	1,498.94
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0619			Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
				Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
	26 24 19 00-0620	EA		200 Amperes, Fusible Main Disconnect Section.....	5,877.03	662.93
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0621	EA		400 Amperes, Fusible Main Disconnect Section.....	8,096.93	850.93
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0622	EA		600 Amperes, Fusible Main Disconnect Section.....	15,726.10	1,325.86
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0623	EA		800 Amperes, Fusible Main Disconnect Section.....	18,221.96	1,325.86
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0624	EA		1,200 Amperes, Fusible Main Disconnect Section.....	25,562.84	1,500.31
				<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
				<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
				<i>For NEMA 1 With Gaskets, Add</i>	97.00	
				<i>For NEMA 12, Add</i>	245.00	
				<i>For 20" Cabinet Depth, Add</i>	108.00	
	26 24 19 00-0625			Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0626			Class I, Type A <small>(26 24 19 00-0625)</small>		
	26 24 19 00-0627	EA		Size 1, Class I, Type A Circuit Breaker Combination Starter.....	1,093.52	277.75
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.36	
	26 24 19 00-0628	EA		Size 2, Class I, Type A Circuit Breaker Combination Starter.....	1,267.53	277.75
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.42	
	26 24 19 00-0629	EA		Size 3, Class I, Type A Circuit Breaker Combination Starter.....	1,830.40	394.06
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	235.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0630	EA		Size 4, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,942.99 310.97	518.58
26 24 19 00-0631	EA		Size 5, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,185.82 388.71	648.56
26 24 19 00-0632			Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633	EA		Size 1, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,028.23 136.83	242.18
26 24 19 00-0634	EA		Size 2, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,196.42 154.09	242.18
26 24 19 00-0635	EA		Size 3, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,745.71 210.50	350.28
26 24 19 00-0636	EA		Size 4, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,856.61 285.06	474.79
26 24 19 00-0637	EA		Size 5, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,116.16 367.82	606.15
26 24 19 00-0638			Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639	EA		Size 1, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,072.89 123.94	224.40
26 24 19 00-0640	EA		Size 2, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,253.62 145.56	224.40
26 24 19 00-0641	EA		Size 3, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,854.66 201.22	335.23
26 24 19 00-0642	EA		Size 4, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,973.34 278.11	463.85
26 24 19 00-0643	EA		Size 5, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,221.92 356.32	595.20
26 24 19 00-0644			Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645	EA		Size 1, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,111.79 187.95	332.49
26 24 19 00-0646	EA		Size 2, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,507.61 209.86	332.49
26 24 19 00-0647	EA		Size 3, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,117.95 265.17	443.32
26 24 19 00-0648	EA		Size 4, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,405.79 342.07	567.83
26 24 19 00-0649	EA		Size 5, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,028.15 417.15	693.71
26 24 19 00-0650			Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651	EA		Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,356.01 180.04	314.71
26 24 19 00-0652	EA		Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,551.09 196.59	314.71
26 24 19 00-0653	EA		Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,233.36 257.19	429.64
26 24 19 00-0654	EA		Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,512.50 332.11	554.15
26 24 19 00-0655	EA		Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,153.39 412.13	684.14
26 24 19 00-0656			Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657			Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658	EA		Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,003.84 154.09	255.87
26 24 19 00-0659	EA		Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,499.26 209.86	350.28
26 24 19 00-0660	EA		Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,344.61 273.65	455.63
26 24 19 00-0661	EA		Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,213.75 384.35	638.98
26 24 19 00-0662	EA		Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,512.05 488.67	814.12
26 24 19 00-0663			Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664	EA		Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,009.43 136.83	228.50
26 24 19 00-0665	EA		Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,361.84 187.95	313.33
26 24 19 00-0666	EA		Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,997.96 251.52	418.69
26 24 19 00-0667	EA		Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,305.87 363.90	604.77



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,585.16 462.26	768.97
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,057.65 128.12	213.45
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,423.75 175.42	290.08
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,153.12 244.33	403.64
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,459.73 356.32	595.20
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,295.56 456.09	760.76
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,285.79 192.17	320.18
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,655.25 239.21	399.53
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,375.34 308.17	514.47
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,813.33 417.15	693.71
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,412.99 518.28	866.12
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,322.60 180.04	301.02
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,716.70 226.54	377.64
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,500.76 294.89	491.21
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,949.92 407.22	677.30
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,541.31 503.04	838.75
26 24 19 00-0687 Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>		
26 24 19 00-0688 Circuit Breaker Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	467.12	135.46
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	560.33	177.88
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	930.86	270.92
26 24 19 00-0694 Fused Disconnect Type <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	314.86	93.04
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	421.68	135.46
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	582.57	177.88
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	992.91	270.92
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,389.70	394.06
26 24 19 00-0700 Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs	129.46	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs	129.46	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs	196.28	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs	196.28	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs	390.47	
26 24 19 00-0706 Structure Combination Of Starters To 72" High <small>(26 24 19 00-0687)</small>		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High	3,544.84	720.12
26 24 19 00-0708 Motor Control Center Basic Distribution Section <small>(26 24 19 00-0484)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0709	EA		20" Wide Basic Section With Vertical Wireway	6,165.08	1,875.35
			<i>For 20" Cabinet Depth, Add</i>	108.00	
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	402.00	
			<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	506.00	
			<i>For NEMA 1 With Gasket, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	210.00	
26 24 19 00-0710	EA		25"-35" Wide Basic Section (No Vertical Wireway)	6,165.08	1,875.35
			<i>For 20" Cabinet Depth, Add</i>	108.00	
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	402.00	
			<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	506.00	
			<i>For NEMA 1 With Gasket, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	210.00	
26 24 19 00-0711	EA		25" Wide Basic Section With 9" Wide Vertical Wireway	6,733.99	1,875.35
			<i>For 20" Cabinet Depth, Add</i>	108.00	
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	402.00	
			<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	506.00	
			<i>For NEMA 1 With Gasket, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	210.00	
26 24 19 00-0712	EA		Corner Section	6,733.99	1,875.35
			<i>For 20" Cabinet Depth, Add</i>	108.00	
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	402.00	
			<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	506.00	
			<i>For NEMA 1 With Gasket, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	210.00	
26 24 19 00-0713			Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small>		
			Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0714			FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715	EA		Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,516.65	263.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.02	
26 24 19 00-0716	EA		Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,687.73	292.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.27	
26 24 19 00-0717	EA		Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	2,883.70	392.69
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	235.64	
26 24 19 00-0718	EA		Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	4,163.41	517.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	310.69	
26 24 19 00-0719	EA		Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	9,292.76	647.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	388.27	
26 24 19 00-0720	EA		Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	21,412.46	647.06
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	388.27	
26 24 19 00-0721	EA		Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,517.04	227.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	136.68	
26 24 19 00-0722	EA		Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,710.82	256.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.92	
26 24 19 00-0723	EA		Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	2,929.27	350.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.16	
26 24 19 00-0724	EA		Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	4,149.94	474.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	284.90	
26 24 19 00-0725	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	9,297.08	612.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	367.82	
26 24 19 00-0726	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	21,547.19	612.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	367.82	
26 24 19 00-0727			Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,394.81	329.62
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.73	
26 24 19 00-0729	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,923.30	364.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.81	
26 24 19 00-0730	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	4,776.40	490.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	294.04	
26 24 19 00-0731	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	8,144.34	647.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	388.71	
26 24 19 00-0732	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	14,574.56	810.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	486.35	
26 24 19 00-0733	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,413.64	284.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.75	
26 24 19 00-0734	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,966.23	320.86
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	192.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	4,840.11	438.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.13	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	8,145.13	593.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	356.32	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	14,596.07	766.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.18	
26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0713)		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,612.32	329.62
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.73	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,678.78	364.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.81	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,868.83	490.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	294.04	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	9,346.44	647.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	388.71	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	18,554.97	810.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	486.35	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,631.15	284.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.75	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,721.71	320.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	192.53	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,932.55	438.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	263.13	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	9,347.23	593.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	356.32	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	18,576.49	766.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.18	
26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0484)		
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750 FVNR Starters With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,240.10	256.82
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,621.79	349.04
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,657.07	454.81
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,433.58	640.62
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	8,732.73	814.39
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	21,673.07	814.39
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,252.53	227.68
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,643.29	312.65
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,716.23	419.24
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,437.94	606.56
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	8,717.20	770.47
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	21,788.04	770.47
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,091.59	321.54
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,909.95	436.34
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,465.78	568.24
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,217.32	803.03
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,860.43	939.73
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,125.56	284.60
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,948.82	390.50
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,545.37	524.60
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	9,233.69	756.79
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	14,862.06	886.23
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,419.30	321.54
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,677.04	436.34
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,579.97	568.24
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,658.13	803.03
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,031.71	939.73
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,454.24	284.60
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,715.90	390.50
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	6,659.56	524.60
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	9,674.51	756.79
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	18,033.34	886.23
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	254.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.28	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	310.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.28	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit	373.66	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.33	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit	483.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.33	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit	807.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.39	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit	147.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	772.10	197.72
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,232.20	218.92
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,529.28	294.86
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,443.25	388.59
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,047.32	485.73
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	4,552.95	485.73
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	9,012.23	608.19
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	862.99	192.25
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,031.60	262.02
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,404.18	335.23
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,560.01	480.26
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,450.95	610.80
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	9,903.18	610.80
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	12,245.93	763.50
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	17,953.37	763.50
26 24 19 00-0810 Control Circuit Transformer (26 24 19 00-0484)		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	69.07	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	69.07	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	133.02	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	133.02	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	184.79	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	57.95	15.48
26 24 19 00-0817 Cover Mounted Control Devices (26 24 19 00-0484)		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	126.08	27.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.10	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	142.88	27.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.38	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted.....	116.88	27.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.81	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	330.18	93.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.08	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter	368.22	35.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.27	
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484)		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact	83.13	17.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.81	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact	112.00	17.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.81	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	122.25	17.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.69	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact	109.35	17.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.55	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	113.91	17.78
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.45	
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	864.62	
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements	30.70	
26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....	182.20	34.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay	172.96	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base	104.04	30.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.55	
26 24 19 00-0837 Motor Control Center Accessories <small>(26 24 19 00-0484)</small>		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker <small>(26 24 19 00-0837)</small>		
<small>Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.</small>		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,176.10	437.71
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,381.65	455.21
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,885.13	490.22
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	7,362.68	525.24
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,842.71	560.26
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,068.29	630.29
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,807.37	700.32
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	9,298.62	577.77
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,103.48	630.29
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,547.52	700.32
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,261.37	770.35
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	14,758.74	840.39
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	15,245.21	910.41
26 24 19 00-0852 Bolt-On Lighting Panel <small>(26 24 19 00-0837)</small>		
<small>Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.</small>		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,362.05	712.04
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,725.78	1,239.38
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,961.26	1,676.81
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,478.80	770.47
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,673.05	1,212.98
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,170.86	1,781.62
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	3,861.56	825.89
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	5,216.82	1,325.86
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt	6,560.01	1,781.62
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	3,991.46	890.74
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	5,216.82	1,325.86
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt	6,674.95	1,839.09
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker <small>(26 24 19 00-0837)</small>		
<small>Note: For MCC lighting panel only.</small>		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	15.11	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	266.46	
26 24 19 00-0868 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	29.53	
26 24 19 00-0869 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	67.99	
26 24 19 00-0870 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	79.66	
26 24 19 00-0871 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	120.86	
26 24 19 00-0872 Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small>		
<small>Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.</small>		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	71.06	
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	85.27	
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	127.90	
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	170.54	
26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	255.80	
26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	298.44	
26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	341.07	
26 25 Enclosed Bus Assemblies <small>(26 20)</small>		
26 25 13 Low-Voltage Busways <small>(26 25)</small>		
26 25 13 00-0001 Plug-In Bus Duct <small>(26 25 13)</small>		
<small>Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.</small>		
26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003 LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	507.35	41.05
<i>For Up To 25, Add</i>	126.84	
<i>For >25 To 50, Add</i>	76.10	
<i>For >50 To 100, Add</i>	38.05	
26 25 13 00-0004 LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	733.52	41.05
<i>For Up To 25, Add</i>	183.38	
<i>For >25 To 50, Add</i>	110.03	
<i>For >50 To 100, Add</i>	55.01	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 25	Enclosed Bus Assemblies



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25	13 00-0005	LF	600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	935.60	54.73
			<i>For Up To 25, Add</i>	233.90	
			<i>For >25 To 50, Add</i>	140.34	
			<i>For >50 To 100, Add</i>	70.17	
26 25	13 00-0006	LF	800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,310.48	54.73
			<i>For Up To 25, Add</i>	327.62	
			<i>For >25 To 50, Add</i>	196.57	
			<i>For >50 To 100, Add</i>	98.29	
26 25	13 00-0007	LF	1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,381.28	68.41
			<i>For Up To 25, Add</i>	345.32	
			<i>For >25 To 50, Add</i>	207.19	
			<i>For >50 To 100, Add</i>	103.60	
26 25	13 00-0008	LF	1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,946.62	68.41
			<i>For Up To 25, Add</i>	486.66	
			<i>For >25 To 50, Add</i>	291.99	
			<i>For >50 To 100, Add</i>	146.00	
26 25	13 00-0009	LF	1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,289.23	71.83
			<i>For Up To 25, Add</i>	572.31	
			<i>For >25 To 50, Add</i>	343.38	
			<i>For >50 To 100, Add</i>	171.69	
26 25	13 00-0010	LF	2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,803.84	73.88
			<i>For Up To 25, Add</i>	700.96	
			<i>For >25 To 50, Add</i>	420.58	
			<i>For >50 To 100, Add</i>	210.29	
26 25	13 00-0011	LF	2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	3,476.41	77.99
			<i>For Up To 25, Add</i>	869.10	
			<i>For >25 To 50, Add</i>	521.46	
			<i>For >50 To 100, Add</i>	260.73	
26 25	13 00-0012	LF	3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,012.93	90.99
			<i>For Up To 25, Add</i>	1,003.23	
			<i>For >25 To 50, Add</i>	601.94	
			<i>For >50 To 100, Add</i>	300.97	
26 25	13 00-0013	LF	4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	4,651.42	99.20
			<i>For Up To 25, Add</i>	1,162.86	
			<i>For >25 To 50, Add</i>	697.71	
			<i>For >50 To 100, Add</i>	348.86	
26 25	13 00-0014		277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25	13 00-0015	LF	225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	866.22	41.05
			<i>For Up To 25, Add</i>	216.56	
			<i>For >25 To 50, Add</i>	129.93	
			<i>For >50 To 100, Add</i>	64.97	
26 25	13 00-0016	LF	400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,265.02	41.05
			<i>For Up To 25, Add</i>	316.26	
			<i>For >25 To 50, Add</i>	189.75	
			<i>For >50 To 100, Add</i>	94.88	
26 25	13 00-0017	LF	600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,430.42	54.73
			<i>For Up To 25, Add</i>	357.61	
			<i>For >25 To 50, Add</i>	214.56	
			<i>For >50 To 100, Add</i>	107.28	
26 25	13 00-0018	LF	800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,828.78	54.73
			<i>For Up To 25, Add</i>	457.20	
			<i>For >25 To 50, Add</i>	274.32	
			<i>For >50 To 100, Add</i>	137.16	
26 25	13 00-0019	LF	1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,239.43	68.41
			<i>For Up To 25, Add</i>	559.86	
			<i>For >25 To 50, Add</i>	335.91	
			<i>For >50 To 100, Add</i>	167.96	
26 25	13 00-0020	LF	1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,919.22	68.41
			<i>For Up To 25, Add</i>	729.81	
			<i>For >25 To 50, Add</i>	437.88	
			<i>For >50 To 100, Add</i>	218.94	
26 25	13 00-0021	LF	1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,786.68	70.88
			<i>For Up To 25, Add</i>	946.67	
			<i>For >25 To 50, Add</i>	568.00	
			<i>For >50 To 100, Add</i>	284.00	
26 25	13 00-0022	LF	2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	4,574.48	73.88
			<i>For Up To 25, Add</i>	1,143.62	
			<i>For >25 To 50, Add</i>	686.17	
			<i>For >50 To 100, Add</i>	343.09	
26 25	13 00-0023	LF	2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	5,689.91	77.31
			<i>For Up To 25, Add</i>	1,422.48	
			<i>For >25 To 50, Add</i>	853.49	
			<i>For >50 To 100, Add</i>	426.74	
26 25	13 00-0024	LF	3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	6,567.02	90.99
			<i>For Up To 25, Add</i>	1,641.76	
			<i>For >25 To 50, Add</i>	985.05	
			<i>For >50 To 100, Add</i>	492.53	
26 25	13 00-0025	LF	4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	7,620.09	99.20
			<i>For Up To 25, Add</i>	1,905.02	
			<i>For >25 To 50, Add</i>	1,143.01	
			<i>For >50 To 100, Add</i>	571.51	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Enclosed Bus Assemblies	26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0026 Cable Tap Boxes <small>(26 25 13 00-0001)</small>		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,372.68	191.56
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,478.24	191.56
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	4,816.09	259.97
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,097.23	259.97
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,446.27	342.07
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	5,959.45	342.07
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0026)</small>		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,478.24	376.28
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	4,831.79	376.28
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,127.23	513.10
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	5,755.46	513.10
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,017.23	684.14
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	6,858.63	684.14
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker <small>(26 25 13 00-0001)</small>		
26 25 13 00-0042 240 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,909.44	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.85	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	3,918.76	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.09	
26 25 13 00-0045 600 Volt, 3-Phase <small>(26 25 13 00-0041)</small>		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	3,847.97	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.85	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	4,986.00	136.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.09	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,200.38	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.52	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	2,617.90	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.90	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire <small>(26 25 13 00-0041)</small>		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,546.64	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.52	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,973.83	164.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.90	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	5,600.94	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	246.09	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	13,488.01	567.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	534.48	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	14,736.77	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	743.62	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	17,562.86	1,641.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,315.64	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch <small>(26 25 13 00-0001)</small>		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,904.68	136.83
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,073.91	136.83
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,891.62	164.19
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	4,858.79	328.38
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,433.80	738.87
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	18,301.42	1,286.17
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,002.68	150.50
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,166.49	150.50
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,932.94	150.50
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	5,008.88	314.71
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	12,397.26	711.50
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	18,560.57	1,368.27
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	31,074.27	1,778.75
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,211.99	177.88

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 25	Enclosed Bus Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,348.88	177.88
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,179.11	177.88
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	5,397.17	369.43
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	13,592.97	820.96
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,717.00	1,258.80
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse <small>(26 25 13 00-0058)</small>		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,291.62	177.88
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,428.51	150.92
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,408.12	205.24
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	5,640.38	369.43
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	13,592.97	820.96
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	19,717.00	1,258.80
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	31,690.76	1,669.29
26 25 16 Low-Voltage Cablebus Systems <small>(26 25)</small>		
26 25 16 00-0001 Feeder Bus Duct <small>(26 25 16)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance <small>(26 25 16 00-0001)</small>		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,602.65	57.46
For Up To 25, Add	400.66	
For >25 To 50, Add	240.40	
For >50 To 100, Add	120.20	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,619.88	57.46
For Up To 25, Add	404.97	
For >25 To 50, Add	242.98	
For >50 To 100, Add	121.49	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,135.20	57.46
For Up To 25, Add	533.80	
For >25 To 50, Add	320.28	
For >50 To 100, Add	160.14	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,573.95	57.46
For Up To 25, Add	643.49	
For >25 To 50, Add	386.09	
For >50 To 100, Add	193.05	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,152.41	57.46
For Up To 25, Add	788.10	
For >25 To 50, Add	472.86	
For >50 To 100, Add	236.43	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	4,298.24	136.83
For Up To 25, Add	1,074.56	
For >25 To 50, Add	644.74	
For >50 To 100, Add	322.37	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	5,960.76	136.83
For Up To 25, Add	1,490.19	
For >25 To 50, Add	894.11	
For >50 To 100, Add	447.06	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	7,051.57	136.83
For Up To 25, Add	1,762.89	
For >25 To 50, Add	1,057.74	
For >50 To 100, Add	528.87	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	8,700.46	136.83
For Up To 25, Add	2,175.12	
For >25 To 50, Add	1,305.07	
For >50 To 100, Add	652.53	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,846.77	61.57
For Up To 25, Add	461.69	
For >25 To 50, Add	277.02	
For >50 To 100, Add	138.51	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,868.24	61.57
For Up To 25, Add	467.06	
For >25 To 50, Add	280.24	
For >50 To 100, Add	140.12	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	2,417.53	61.57
For Up To 25, Add	604.38	
For >25 To 50, Add	362.63	
For >50 To 100, Add	181.31	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	2,866.85	61.57
For Up To 25, Add	716.71	
For >25 To 50, Add	430.03	
For >50 To 100, Add	215.01	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	3,468.15	61.57
For Up To 25, Add	867.04	
For >25 To 50, Add	520.22	
For >50 To 100, Add	260.11	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Enclosed Bus Assemblies	26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 100, Add</i>	5,346.36 1,336.59 801.95 400.98	105.36
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 100, Add</i>	6,708.17 1,677.04 1,006.23 503.11	105.36
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 100, Add</i>	7,934.14 1,983.54 1,190.12 595.06	195.66
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports <i>For Up To 25, Add</i> <i>For >25 To 50, Add</i> <i>For >50 To 100, Add</i>	9,805.08 2,451.27 1,470.76 735.38	195.66

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)
Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	268.06	88.93
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	281.74	88.93
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	369.45	109.46
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	373.34	109.46
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	673.65	123.14
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	881.20	136.83
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,075.33	150.50
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,661.08	684.14

26 27 13 00-0011 Meter Device (26 27 13 00-0001)
Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	240.31 16.83	27.36
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	649.46 17.13	27.40

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure.....	567.80	177.88
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26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	923.79	85.52
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,210.39	102.62
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,495.52	119.72
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,731.95	136.83
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,241.43	153.93
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,423.24	171.03
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,831.14	205.24

26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,661.80	85.52
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,183.10	102.62
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,004.29	136.83
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,333.67	153.93
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,179.68	171.03

**26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity,
2 Pole** (26 27 13 00-0016)

26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44	119.72
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23	136.83
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,241.43	153.93
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88	171.03
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76	188.14
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,286.98	239.45

**26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting
Capacity, 2 Pole** (26 27 13 00-0016)

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.49	119.72
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63	136.83
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76	171.03
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.82	205.24
26 27 13 00-0045 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0046 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0045)		
26 27 13 00-0047 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,011.13	102.62
26 27 13 00-0048 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,313.97	119.72
26 27 13 00-0049 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,615.35	136.83
26 27 13 00-0050 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,872.43	153.93
26 27 13 00-0051 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,290.40	171.03
26 27 13 00-0052 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,472.20	188.14
26 27 13 00-0053 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,042.47	222.35
26 27 13 00-0054 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0055 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.06	102.62
26 27 13 00-0056 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.87	119.72
26 27 13 00-0057 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,318.91	153.93
26 27 13 00-0058 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,648.32	171.03
26 27 13 00-0059 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.80	188.14
26 27 13 00-0060 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.81	136.83
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.50	153.93
26 27 13 00-0063 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,378.99	171.03
26 27 13 00-0064 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.44	188.14
26 27 13 00-0065 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.87	205.24
26 27 13 00-0066 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87	222.35
26 27 13 00-0067 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,513.12	256.55
26 27 13 00-0068 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)		
26 27 13 00-0069 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.53	136.83
26 27 13 00-0070 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.94	153.93
26 27 13 00-0071 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.92	188.14
26 27 13 00-0072 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46	205.24
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	923.79	85.52
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,210.39	102.62
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,731.95	136.83
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,241.43	153.93
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,762.72	171.03
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,661.79	85.52
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,183.08	102.62
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,151.87	136.83
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,481.27	153.93
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,179.68	171.03
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0074)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,408.44	119.72
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,838.23	136.83
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,629.88	171.03
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,298.76	188.14
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,143.51	119.72
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,797.63	136.83
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,928.76	171.03
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,369.87	205.24
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,011.13	102.62
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,313.97	119.72
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,872.43	153.93
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,438.00	171.03
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,755.04	102.62
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,305.85	119.72
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,171.31	153.93
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,500.72	171.03
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,405.76	188.14
26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,495.79	136.83
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,931.47	153.93
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.40	188.14
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,465.82	205.24
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,632.87	222.35
26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,251.51	136.83
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,949.91	153.93
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,213.88	188.14
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,410.46	205.24
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,581.20	222.35
26 27 13 00-0124 Watt/Hour Meters <small>(26 27 13)</small>		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure	1,008.41	82.10
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	2,990.18	164.19
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,619.54	123.14
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	1,956.64	123.14
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure	1,669.06	123.14
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,116.75	113.56
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,915.08	205.24
26 27 13 00-0132 Watt/Hour Meter Systems <small>(26 27 13)</small>		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0134 EA 400 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,064.03	821.10
26 27 13 00-0135 EA 600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure	5,859.57	821.10
26 27 13 00-0136 Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0137 EA 400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	8,556.84	821.10
26 27 13 00-0138 EA 600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,291.55	821.10
26 27 13 00-0139 EA 800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	11,027.22	821.10
26 27 16 Electrical Cabinets and Enclosures <small>(26 27)</small>		
Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001 NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>		
26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>		
26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0004	EA		6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	81.85	27.36
26 27 16 00-0005	EA		6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	91.42	30.10
26 27 16 00-0006	EA		8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.05	32.83
26 27 16 00-0007	EA		8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	117.95	38.32
26 27 16 00-0008	EA		10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	128.03	41.05
26 27 16 00-0009	EA		10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.71	43.79
26 27 16 00-0010	EA		12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	138.40	43.79
26 27 16 00-0011	EA		12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	149.31	46.52
26 27 16 00-0012	EA		12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	160.66	49.26
26 27 16 00-0013	EA		16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	209.52	65.68
26 27 16 00-0014	EA		16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	253.96	79.36
26 27 16 00-0015	EA		18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	242.07	76.62
26 27 16 00-0016			6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)		
26 27 16 00-0017	EA		6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	101.65	32.83
26 27 16 00-0018	EA		8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	122.39	38.32
26 27 16 00-0019	EA		10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	146.63	46.52
26 27 16 00-0020	EA		10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	157.75	49.26
26 27 16 00-0021	EA		12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	169.07	51.99
26 27 16 00-0022	EA		12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	180.82	54.73
26 27 16 00-0023	EA		16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	230.70	71.15
26 27 16 00-0024	EA		16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	280.55	87.57
26 27 16 00-0025	EA		18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	270.81	84.84
26 27 16 00-0026	EA		18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	352.01	109.46
26 27 16 00-0027	EA		24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	442.25	125.88
26 27 16 00-0028	EA		24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	500.77	136.83
26 27 16 00-0029	EA		30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	552.71	145.03
26 27 16 00-0030	EA		36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	597.82	150.50
26 27 16 00-0031	EA		24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L).....	413.88	109.46
26 27 16 00-0032			Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033			3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034	EA		4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	56.03	19.16
26 27 16 00-0035	EA		6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	80.06	27.36
26 27 16 00-0036	EA		8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.98	30.10
26 27 16 00-0037			4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038	EA		4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	63.01	21.89
26 27 16 00-0039	EA		6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	78.30	27.36
26 27 16 00-0040	EA		6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	87.10	30.10
26 27 16 00-0041	EA		8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.01	32.83
26 27 16 00-0042	EA		8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	112.01	38.32
26 27 16 00-0043	EA		10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	121.24	41.05
26 27 16 00-0044	EA		10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.82	43.79
26 27 16 00-0045	EA		12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	130.55	43.79
26 27 16 00-0046	EA		12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	140.46	46.52
26 27 16 00-0047	EA		12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	150.59	49.26
26 27 16 00-0048	EA		16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	197.97	65.68
26 27 16 00-0049	EA		16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	245.88	82.10
26 27 16 00-0050	EA		18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	228.51	76.62
26 27 16 00-0051	EA		18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	295.41	98.51
26 27 16 00-0052	EA		24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	411.42	123.14
26 27 16 00-0053			6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054	EA		6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.40	32.83
26 27 16 00-0055	EA		8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	105.81	35.58
26 27 16 00-0056	EA		8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	122.00	41.05
26 27 16 00-0057	EA		10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0058	EA		10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	148.47	49.26
26 27 16 00-0059	EA		12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	158.57	51.99
26 27 16 00-0060	EA		12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	169.01	54.73
26 27 16 00-0061	EA		16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	217.24	71.15
26 27 16 00-0062	EA		16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	267.03	87.57
26 27 16 00-0063	EA		18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	255.06	84.84
26 27 16 00-0064	EA		18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	330.97	109.46
26 27 16 00-0065	EA		24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	404.81	125.88
26 27 16 00-0066	EA		24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	458.06	136.83
26 27 16 00-0067	EA		30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	492.42	145.03
26 27 16 00-0068	EA		36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	532.21	150.50
26 27 16 00-0069			8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070	EA		8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	138.46	46.52
26 27 16 00-0071	EA		12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	186.29	60.21
26 27 16 00-0072	EA		16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	236.91	76.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	294.58	95.78
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	282.73	93.04
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	349.97	114.94
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	392.81	131.36
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	445.51	139.56
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	504.81	150.50
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	536.00	158.72
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	561.10	164.19
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	572.52	164.19
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	319.60	103.98
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	418.43	134.09
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	428.73	142.30
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	531.43	153.25
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	606.29	169.66
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.47	175.14
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	703.93	183.35
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	461.74	147.77
26 27 16 00-0092 EA 24" x 12" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	466.84	155.99
26 27 16 00-0093 EA 24" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	585.22	169.66
26 27 16 00-0094 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	662.51	186.08
26 27 16 00-0095 EA 30" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	731.94	194.29
26 27 16 00-0096 EA 36" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	770.09	202.51
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,065.00	120.41
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	105.55	21.89
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	138.48	30.10
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	171.99	38.32
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	185.93	41.05
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	207.26	43.79
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	222.86	46.52
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	153.37	32.83
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	168.58	35.58
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	193.68	21.89
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	234.93	30.10
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	264.86	32.83
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	303.52	38.32
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	313.29	41.05
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	366.83	43.79
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	393.55	46.52
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	445.32	49.26
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	283.45	32.83
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	319.38	35.58
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	349.67	41.05
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	414.05	49.26
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	450.50	54.73
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	622.31	71.15
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	963.82	109.46
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,250.64	125.88
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,406.59	136.83

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,309.68	139.56
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,502.35	150.50
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,646.87	158.72
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,808.44	164.19
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,785.07	164.19
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,470.53	222.35
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,535.30	246.29
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,339.19	263.40
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,306.43	328.38
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,169.61	387.22
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	5,971.59	387.22
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,645.44	410.48
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,532.59	437.85
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	8,287.75	437.85
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	310.04	95.78
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	328.78	95.78
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	406.60	99.20
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	419.36	99.20
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	514.02	102.62
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	403.15	99.20
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	436.51	99.20
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	454.56	102.62
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	557.03	102.62
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	610.38	109.46
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	656.14	116.31
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	680.52	116.31
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	798.44	119.72
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	862.29	123.14
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,162.12	136.83
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	586.96	106.04
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	731.62	119.72
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	847.30	123.14
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	967.59	126.57
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,025.07	126.57
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,161.81	136.83
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,341.38	153.93
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,265.14	147.09
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,452.62	273.66
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	4,173.12	342.07
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,036.02	129.98
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,543.91	171.03
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,567.39	171.03
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,137.75	256.55
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	2,778.71	273.66
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	6,927.40	478.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,691.98	342.07
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,611.82	410.48
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,637.35	376.28
26 27 16 00-0193 NEMA 3R Enclosures, Lockable <small>(26 27 16)</small> Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	101.97	27.36
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	112.52	30.10
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	158.74	32.83
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	199.63	41.05
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	223.51	46.52
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	260.52	51.99
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	280.67	54.73
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	365.35	71.15
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	438.53	87.57
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	507.19	109.46
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	752.57	139.56
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	831.81	150.50
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	929.24	158.72
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	975.54	164.19
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	930.91	169.66
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,051.52	191.56
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,164.32	212.09
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,282.19	233.98
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,396.37	254.50
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	621.74	134.09
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	930.91	169.66
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,085.14	175.14
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,353.64	191.56
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0194)</small>		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	883.43	135.46
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	990.98	151.88
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,097.17	168.30
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,212.86	186.08
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	660.20	101.25
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	883.43	135.46
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	990.98	151.88
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,165.40	177.88
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,259.81	199.77
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,320.40	202.51
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,387.34	207.98
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,536.92	218.92
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	1,661.89	229.87
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0193)</small>		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures <small>(26 27 16 00-0238)</small>		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	74.15	21.89
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	90.27	27.36
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	99.60	30.10
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	110.06	32.83
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	127.92	38.32
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	138.93	41.05
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.72	43.79
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	150.19	43.79

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	163.23	46.52
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	175.01	49.26
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	265.98	76.62
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	352.19	98.51
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	104.75	32.83
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	140.36	41.05
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	159.02	46.52
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	171.54	49.26
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	170.76	49.26
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	183.93	51.99
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	197.20	54.73
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	257.18	71.15
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	298.09	84.84
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	395.18	109.46
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	414.87	117.67
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	468.28	125.88
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	524.05	136.83
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	220.00	60.21
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	322.65	93.04
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	436.74	120.41
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	518.34	139.56
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	581.39	150.50
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	640.07	158.72
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	482.68	134.09
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	642.16	169.66
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	696.98	175.14
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	708.48	186.08
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	947.94	202.51
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	978.80	207.98
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,128.09	218.92
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	119.18	19.16
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	139.46	23.27
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	174.58	30.10
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	166.48	30.10
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	222.71	41.05
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	276.98	49.26
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	256.13	46.52
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	298.73	54.73
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	351.14	62.94
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	426.41	79.36
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	109.77	19.16
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	157.09	30.10
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	138.40	26.27
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	147.17	28.46
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	181.23	37.21
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	211.40	41.05
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	272.94	51.99
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	319.20	61.57
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	452.54	98.51
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	233.24	21.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	276.03	30.10
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	350.58	41.05
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	425.46	49.26
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	525.09	62.94
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	621.31	79.36
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	271.06	19.16
<i>For 316 Stainless Steel, Add</i>	35.71	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	353.97	27.36
<i>For 316 Stainless Steel, Add</i>	45.69	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	400.59	30.10
<i>For 316 Stainless Steel, Add</i>	52.05	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	457.53	32.83
<i>For 316 Stainless Steel, Add</i>	60.07	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	562.34	41.05
<i>For 316 Stainless Steel, Add</i>	73.56	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	787.61	51.99
<i>For 316 Stainless Steel, Add</i>	105.22	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	980.79	62.94
<i>For 316 Stainless Steel, Add</i>	131.75	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,184.42	79.36
<i>For 316 Stainless Steel, Add</i>	157.76	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
<i>Note: NEMA 3R, 4, 4X and 12 rated.</i>		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	141.58	30.10
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	158.89	32.83
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	182.18	38.32
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	197.75	41.05
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	228.01	46.52
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	215.79	46.52
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	250.36	51.99
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	312.68	62.94
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	402.25	86.20
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	524.41	124.10
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	151.19	30.10
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	170.25	32.83
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	194.40	38.32
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	212.57	41.05
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	243.72	46.52
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	230.64	46.52
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	270.49	51.99
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	323.15	62.94
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	424.07	86.20
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	547.96	124.10
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
<i>Note: NEMA 3R, 4, 4X and 12 rated.</i>		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	168.64	30.10
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	180.72	32.83
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	205.73	38.32
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	222.18	41.05
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	262.05	46.52
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	242.85	46.52
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	295.78	51.99
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	351.96	62.94
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	436.29	86.20
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	568.91	124.10
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	175.62	30.10
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	193.80	32.83
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	217.95	38.32
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	235.26	41.05
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	279.50	46.52
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	257.68	46.52
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	314.12	51.99
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	360.69	62.94
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	465.08	86.20
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	599.46	124.10
26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small>		
<i>Note: Nominal inside dimensions.</i>		
26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,221.84	153.93
<i>For Mounting Pan, Add</i>	48.38	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	997.05 90.15	164.19
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,874.08 124.31	184.71
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,677.74 63.21	184.71
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,158.29 124.31	189.85
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,214.33 95.09	205.24
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,269.52 111.26	205.24
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,190.30 145.96	256.55
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,001.64 91.14	230.89
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,114.74 136.37	256.55
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,847.39 183.47	461.79
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,816.49 178.63	307.86
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,068.62 163.99	513.10
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,018.83 266.60	513.10
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,579.83 95.09	230.89
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,596.98 111.26	230.89
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,923.62 145.96	230.89
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,239.91 91.14	256.55
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,758.91 136.37	461.79
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,792.35 183.47	564.42
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,975.90 275.91	667.04
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,246.81 178.63	564.42
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,381.23 163.99	564.42
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,893.06 245.82	615.73
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,550.14 266.60	564.42
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,673.23 389.85	615.73
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,616.16 519.73	615.73
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	13,302.44 649.56	820.96
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,147.60 603.98	667.04
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	18,284.44 826.84	1,026.20
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,321.69 275.91	667.04
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,581.79 245.82	615.73
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,347.42 389.85	667.04
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,739.17 649.56	718.34
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,433.13 603.98	718.34
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	19,868.55 826.84	1,026.20



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	5,915.67 183.47	564.42
26 27 16 00-0407 Breaker Enclosures <small>(26 27 16)</small> See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	396.23	109.46
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	688.00	109.46
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,643.50	150.50
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,210.30	164.19
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,631.46	164.19
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	615.32	150.50
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	621.86	150.50
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,089.09	150.50
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	3,577.50	191.56
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	929.10	191.56
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,002.61	301.02
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,154.77	301.02
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	6,088.40	383.12
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,613.26	383.12
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	1,957.17	574.68
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,174.89	574.68
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	10,976.38	738.87
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	6,091.43	738.87
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures <small>(26 27 16 00-0407)</small>		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,331.49	574.68
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	3,766.86	574.68
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	7,573.71	738.87
26 27 16 00-0434 Legend Plates <small>(26 27 16)</small>		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	20.50	6.84
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	23.85	6.84
26 27 19 Multi-Outlet Assemblies <small>(26 27)</small>		
26 27 19 00-0001 Surface Metal Raceway, Preamsembled With Outlets <small>(26 27 19)</small> Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
26 27 19 00-0002 LF Single Circuit, Plugmold #2000, 3' With Outlets 6" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	31.25 1.00	9.99
26 27 19 00-0003 LF Single Circuit, Plugmold #2000, 6' With Outlets 6" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	24.08 0.72	7.11
26 27 19 00-0004 LF Single Circuit, Plugmold #2000, 6' With Outlets 9" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	22.87 0.75	7.52
26 27 19 00-0005 LF Single Circuit, Plugmold #2000, 6' With Outlets 12" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	24.91 0.72	7.11
26 27 19 00-0006 LF Single Circuit, Plugmold #2000, 6' With Outlets 18" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	20.59 0.72	7.25
26 27 19 00-0007 LF Two Circuits, Plugmold #2000, 6' With Outlets 9" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	27.67 0.72	7.11
26 27 19 00-0008 LF Two Circuits, Plugmold #2000, 6' With Outlets 12" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	24.66 0.72	7.11
26 27 19 00-0009 LF Two Circuits, Plugmold #2000, 6' With Outlets 18" On Center..... <i>For Concrete Or Masonry Surface, Add</i>	26.47 0.72	7.11
26 27 23 Indoor Service Poles <small>(26 27)</small>		
26 27 23 00-0001 Communication And Power Poles <small>(26 27 23)</small> Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0002 Steel Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	285.25	60.64
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	306.56	60.64
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	331.20	60.64
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0003)</small>		
Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	58.46	12.50
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	51.74	12.50
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	57.53	12.50
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	44.68	12.50
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	38.20	12.50
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	358.31	60.64
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	404.10	60.64
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	428.81	60.64
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles <small>(26 27 23 00-0014)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0023 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0002)</small>		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	455.34	60.64
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	510.46	60.64
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	546.79	60.64
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles <small>(26 27 23 00-0023)</small>		
Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	41.82	12.50
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	38.40	12.50
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	40.85	12.50
26 27 23 00-0032 Aluminum Communication And Power Poles <small>(26 27 23 00-0001)</small>		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	372.65	60.64
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	411.18	60.64
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	454.38	60.64
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	59.78	12.50
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles.....	60.87	12.50
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	64.49	12.50
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	46.72	12.50
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	38.20	12.50
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	360.62	60.64
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	400.14	60.64
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	446.70	60.64
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	712.64	60.64
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	809.57	60.64

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 26 00-0059	Explosion Proof Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0060	EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	787.60	34.21
26 27 26 00-0061	EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly	728.66	37.62
26 27 26 00-0062	EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,214.30	68.41
26 27 26 00-0063	EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,520.96	68.41
26 27 26 00-0064	EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,932.38	102.62
26 27 26 00-0065	EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	1,843.60	102.62
26 27 26 00-0066	Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0067	EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	41.83	17.10
26 27 26 00-0068	EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	60.79	20.52
26 27 26 00-0069	Arc Fault Circuit Interrupter (AFCI) <small>(26 27 26 00-0026)</small>		
26 27 26 00-0070	EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	73.93	17.10
26 27 26 00-0071	EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	81.06	17.10
26 27 26 00-0072	Locking Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0073	EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	55.30	17.10
26 27 26 00-0074	EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	66.24	17.10
26 27 26 00-0075	EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	62.01	20.52
26 27 26 00-0076	EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	61.53	20.52
26 27 26 00-0077	EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	71.16	20.52
26 27 26 00-0078	EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	83.60	20.52
26 27 26 00-0079	EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	82.23	20.52
26 27 26 00-0080	EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	73.13	20.52
26 27 26 00-0081	EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	85.17	27.36
26 27 26 00-0082	EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle	86.32	27.36
26 27 26 00-0083	EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	121.27	27.36
26 27 26 00-0084	Hospital Grade Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0085	EA 15 Amperes, Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle	53.97	13.69
26 27 26 00-0086	EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	58.11	13.69
26 27 26 00-0087	EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	65.97	13.69
26 27 26 00-0088	EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle	58.71	13.69
26 27 26 00-0089	EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground	66.83	13.69
26 27 26 00-0090	EA 20 Amperes, Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle	73.13	13.69
26 27 26 00-0091	EA 120 Volt, Transient Voltage, Surge Suppressor Receptacle	174.74	41.05
	Note: Hospital grade receptacle.		
26 27 26 00-0092	Weathertight Pin And Sleeve Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0093	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	274.81	68.41
26 27 26 00-0094	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	274.24	68.41
26 27 26 00-0095	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	285.00	68.41
26 27 26 00-0096	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	344.31	75.26
26 27 26 00-0097	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	345.21	75.26
26 27 26 00-0098	EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	343.13	75.26
26 27 26 00-0099	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	408.79	84.14
26 27 26 00-0100	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	391.29	84.14
26 27 26 00-0101	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	418.69	84.14
26 27 26 00-0102	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	425.94	92.36
26 27 26 00-0103	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	425.60	92.36
26 27 26 00-0104	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	428.08	92.36
26 27 26 00-0105	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	590.78	109.46
26 27 26 00-0106	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	569.59	109.46
26 27 26 00-0107	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	583.38	109.46
26 27 26 00-0108	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	649.63	121.78
26 27 26 00-0109	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	650.04	121.78
26 27 26 00-0110	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	650.45	121.78
26 27 26 00-0111	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	723.59	136.83
26 27 26 00-0112	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	750.76	136.83
26 27 26 00-0113	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	809.06	150.50
26 27 26 00-0114	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	807.02	150.50
26 27 26 00-0115	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	810.86	150.50
26 27 26 00-0116	Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0117	EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	78.68	13.69
26 27 26 00-0118	EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	155.48	17.10
26 27 26 00-0119	Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0120	EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	32.05	13.69
	Note: Pass & Seymour 3232-TR.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle Note: Pass & Seymour TR20.	34.47	13.69
26 27 26 00-0122 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5251.	41.40	13.69
26 27 26 00-0123 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle Note: Pass & Seymour TR5351.	44.65	13.69
26 27 26 00-0124 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	64.18	13.69
26 27 26 00-0125 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	68.84	13.69
26 27 26 00-0126 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 2095-TRS.	73.28	13.69
26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles (26272600-0026)		
26 27 26 00-0128 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	65.92	13.69
26 27 26 00-0129 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	70.74	13.69
26 27 26 00-0130 Television Receptacle (26272600-0001)		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F), Complete.....	85.06	31.74
26 27 26 00-0132 Switches (262726)		
26 27 26 00-0133 Switches (26272600-0132)		
26 27 26 00-0134 Switch Assemblies (26272600-0133) Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0135 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	115.34	47.89
26 27 26 00-0136 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	124.08	51.99
26 27 26 00-0137 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	153.93	62.60
26 27 26 00-0138 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	168.68	69.44
26 27 26 00-0139 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	264.07	107.41
26 27 26 00-0140 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	286.19	117.67
26 27 26 00-0141 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	302.40	121.44
26 27 26 00-0142 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	331.89	135.11
26 27 26 00-0143 Switch Components (26272600-0133)		
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, SPST Switch	35.25	13.69
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, 3-Way Switch	44.58	17.10
26 27 26 00-0146 EA 15 Amperes, 120/277 Volt, 4-Way Switch	84.82	27.36
26 27 26 00-0147 EA 15 Amperes, 120/277 Volt, DPST Switch	39.84	13.69
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	73.44	17.10
26 27 26 00-0149 EA 20 Amperes, 120/277 Volt, SPST Switch	42.63	17.10
26 27 26 00-0150 EA 20 Amperes, 120/277 Volt, 3-Way Switch	52.57	20.52
26 27 26 00-0151 EA 20 Amperes, 120/277 Volt, 4-Way Switch	112.12	27.36
26 27 26 00-0152 EA 20 Amperes, 120/277 Volt, DPST Switch.....	49.99	17.10
26 27 26 00-0153 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	53.25	17.10
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	74.75	17.13
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	93.13	17.13
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot..... Note: Neon Pilot is 125 V, 1 / 125W.	72.91	20.55
26 27 26 00-0157 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	64.24	23.95
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0158 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	78.54	27.36
26 27 26 00-0159 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch..... Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.	112.19	27.36
26 27 26 00-0160 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	77.59	27.40
26 27 26 00-0161 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	94.11	27.40
26 27 26 00-0162 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	99.77	34.26
26 27 26 00-0163 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	136.85	37.68
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	71.97	22.41
26 27 26 00-0165 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	97.16	22.41
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0166 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	86.30	22.41
26 27 26 00-0167 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	82.56	22.41
26 27 26 00-0168 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	84.79	11.10
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	89.85	11.10
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	100.38	42.76
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	118.76	42.76
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	135.99	13.71
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	99.57	13.71
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	225.25	13.69
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	52.15	13.69
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	106.25	13.71
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000)	122.22	13.71

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	157.07	13.71
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	139.81	13.71
26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)		
26 27 26 00-0181 Dimmers With SPST Switch (26 27 26 00-0180)		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch	78.63	30.79
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch	131.86	30.79
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch	236.57	49.53
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch	304.49	49.53
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch.....	170.91	36.53
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch.....	229.35	36.53
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch.....	413.44	55.14
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan.....	128.74	45.56
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	211.23	68.00
26 27 26 00-0191 Time Switches (26 27 26 00-0180)		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	143.58	41.05
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	146.65	41.05
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	143.58	41.05
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	146.65	41.05
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	164.07	41.05
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	246.19	41.05
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	269.89	41.05
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	269.89	41.05
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch.....	143.58	41.05
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch.....	146.65	41.05
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	143.58	41.05
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	146.65	41.05
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	164.07	41.05
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch.....	284.99	41.05
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	325.88	41.05
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	335.31	41.05
26 27 26 00-0215 Low Voltage Switching (26 27 26 00-0180)		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector.....	226.14	13.69
26 27 26 00-0217 Other Switches (26 27 26 00-0180)		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	44.85	20.52
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices	135.87	54.73
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices.....	137.54	54.73
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	149.19	51.17
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch.....	142.48	51.17
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch.....	149.55	51.17
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	143.03	61.66
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	145.01	61.66
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	178.32	75.37
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	162.16	68.51
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	162.66	68.51
26 27 26 00-0229 Plates And Covers (26 27 26)		
26 27 26 00-0230 Wall Plates (26 27 26 00-0229)		
26 27 26 00-0231 Nylon Wall Plates (26 27 26 00-0230)		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates.....	1.97	0.68
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates.....	3.27	1.02
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates.....	4.59	1.37
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate	6.48	1.72
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate.....	1.98	0.68
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate.....	3.34	1.02
26 27 26 00-0238 Plastic Wall Plates (26 27 26 00-0230)		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates	1.85	0.68
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates	3.03	1.02
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates	4.21	1.37
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates	6.48	1.72
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate	1.85	0.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate	3.03	1.02
26 27 26 00-0245 Brass Wall Plates (26 27 26 00-0230)		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates	17.51	3.08
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates	31.73	3.56
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates	45.83	3.97
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates	70.40	4.31
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates	85.42	4.59
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates	98.62	4.80
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	17.51	3.08
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	36.89	3.56
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	52.64	3.97
26 27 26 00-0255 Stainless Steel Wall Plates (26 27 26 00-0230)		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	10.05	3.08
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	15.44	3.56
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	21.10	3.97
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	30.22	4.31
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	35.36	4.59
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	42.40	4.80
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	10.87	3.08
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	17.37	3.56
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	27.49	3.97
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	33.00	4.31
26 27 26 00-0266 Chrome Wall Plates (26 27 26 00-0230)		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate	33.56	3.08
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate	61.79	3.56
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate	89.99	3.97
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	33.53	3.08
26 27 26 00-0271 Weatherproof Covers (26 27 26 00-0229)		
26 27 26 00-0272 Stamped Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	10.33	0.68
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	11.16	0.68
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	11.16	0.68
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	11.16	0.68
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	13.79	1.02
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	15.58	1.02
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	15.76	1.02
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	15.76	1.02
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	21.22	1.02
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	20.32	1.37
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	22.15	1.37
26 27 26 00-0284 Cast Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	12.56	0.68
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	39.26	0.68
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	43.98	0.68
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	12.47	0.68
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	33.34	0.68
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	55.21	0.68
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	70.18	0.68
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	15.76	1.02
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	110.84	1.02
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	26.18	1.37
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	106.10	1.37
26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.32	0.68
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	6.77	0.68
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	9.12	1.02
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	9.88	1.02
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	9.88	1.02
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	10.96	1.02
26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)		
Note: Includes baked on lacquer finish and neoprene gasket.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	52.41	0.68
26 27 26 00-0305 Polycarbonate Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.73	0.68
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.73	0.68
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	10.73	0.68
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.32	1.02
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	13.32	1.02
26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522).....	74.24	0.68
26 27 26 00-0313 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	12.03	0.68
26 27 26 00-0315 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	13.03	1.02
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	12.07	0.68
26 27 26 00-0317 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	26.28	0.68
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	30.42	0.68
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	24.71	0.68
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	18.48	0.68
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	21.58	0.68
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover.....	19.33	0.68
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover.....	27.84	1.02
26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	90.02	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate.....	11.40	
26 27 26 00-0327 Relay Systems (26 27 26)		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay.....	94.62	30.79
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay.....	382.37	102.62
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay.....	628.21	136.83
26 27 26 00-0331 Limit Switches (26 27 26)		
26 27 26 00-0332 Heavy Duty Precision Oiltight (26 27 26 00-0331)		
26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0332)		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated.....	443.89	86.20
26 27 26 00-0335 In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder.....	87.91	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder.....	184.96	
26 27 33 Power Distribution Units (26 27) Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C).....	17,322.86	420.74
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C).....	20,891.06	456.04
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C).....	23,801.98	506.26
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C).....	27,368.88	547.31
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C).....	29,907.56	684.14
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C).....	33,578.75	820.96
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C).....	38,748.85	957.79
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C).....	40,787.89	1,094.61
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C).....	43,126.70	1,231.44
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA.....	1,586.04	136.83
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA.....	2,353.94	171.03
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA.....	5,220.32	205.24
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit.....	2,189.23	
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only.....	1,641.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 27 73 Door Chimes (26 27)

26 27 73 00-0001			Door Bell Chime And Door Button With Built-In Viewer <small>(26 27 73)</small> Note: Non-electric chime, mounted on door		
26 27 73 00-0002	EA		Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	76.60	17.57
26 27 73 00-0003			Wireless Door Bell System <small>(26 27 73)</small>		
26 27 73 00-0004	EA		Wireless Doorbell Chime And Push Button (Broan LA542WH)	133.19	
			Note: Includes 2 push buttons		
26 27 73 00-0005	EA		Wireless Doorbell Chime And Push Button (STI-3350G).....	126.50	
			Note: Includes 2 push buttons		
26 27 73 00-0006	EA		Wireless Doorbell Chime And Push Button (GE 19300)	99.17	
			Note: Includes 2 push buttons		
26 27 73 00-0007			Door Chimes <small>(26 27 73)</small>		
26 27 73 00-0008	EA		Door Bell, Push-Button And Transformer, Complete	736.23	285.01
26 27 73 00-0009	EA		Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	292.79	68.41
26 27 73 00-0010	EA		Removal And Replacement Of Bell/Buzzer, Complete	119.65	34.21
			Note: Includes removal of existing.		

26 28 Low-Voltage Circuit Protective Devices (26 20)

26 28 13 Fuses (26 28)

26 28 13 00-0001			125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses <small>(26 28 13)</small>		
26 28 13 00-0002	EA		1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.43	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0003	EA		2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.99	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0004	EA		3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.39	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0005	EA		5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.30	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0006	EA		6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.86	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0007	EA		8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.77	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0008	EA		10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	25.51	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0009	EA		15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.37	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0010	EA		20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.05	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0011	EA		25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.67	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0012	EA		30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.24	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0013			Class RK1, Time Delay Fuses <small>(26 28 13)</small>		
26 28 13 00-0014			250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses <small>(26 28 13 00-0013)</small>		
26 28 13 00-0015	EA		1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	37.93	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0016	EA		2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	36.00	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0017	EA		3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.35	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0018	EA		4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	37.17	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0019	EA		5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.82	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0020	EA		10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	35.02	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0021	EA		15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.88	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0022	EA		20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.72	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0023	EA		25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.89	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0024	EA		30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	32.67	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0025	EA		35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	41.77	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0026	EA		40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	41.13	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0027	EA		45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	41.61	9.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0028 EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	41.21	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0029 EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.63	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses ^{(26 28}		
<small>13 00-0013)</small>		
26 28 13 00-0031 EA 70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	70.26	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0032 EA 80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	69.93	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0033 EA 90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	76.47	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0034 EA 100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	69.42	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0035 EA 110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	176.95	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0036 EA 125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	132.43	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0037 EA 150 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	123.68	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	
26 28 13 00-0038 EA 200 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	129.62	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	
26 28 13 00-0039 EA 250 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	232.06	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	
26 28 13 00-0040 EA 300 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	251.55	16.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.08	
26 28 13 00-0041 EA 350 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	269.29	16.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.08	
26 28 13 00-0042 EA 400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	211.08	16.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.08	
26 28 13 00-0043 EA 450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	451.20	16.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.08	
26 28 13 00-0044 EA 500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	431.24	20.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.55	
26 28 13 00-0045 EA 600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	340.49	20.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.55	
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses ⁽²⁶		
<small>28 13 00-0013)</small>		
26 28 13 00-0047 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.84	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0048 EA 2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	50.77	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0049 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.19	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0050 EA 4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	49.04	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0051 EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.30	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0052 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.57	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0053 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.75	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0054 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.48	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0055 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.10	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0056 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	45.65	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0057 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.34	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0058 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.47	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0059 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.42	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0060 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	61.91	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0061 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	62.35	9.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.57	
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^{(26 28}		
<small>13 00-0013)</small>		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	111.44	12.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.21	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	115.01	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.45	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	114.89	13.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	200.38	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.22	13.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.03	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.57	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	203.10	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	373.47	16.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.08	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	379.04	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	425.05	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	386.86	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	680.07	20.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.55	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	611.81	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	536.50	24.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.33	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.84	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.69	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.53	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	44.95	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.08	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	45.62	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	42.55	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.92	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	40.47	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	41.70	9.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.57	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse^(26 28 13)		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	48.75	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	49.08	6.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.11	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	44.18	8.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.93	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.60	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	46.40	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	45.68	10.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.16	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.67	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	50.62	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	80.64	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	70.30	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	79.06	13.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.21	
26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	74.01	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	72.90	17.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.26	
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	108.54	20.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	114.68	20.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	113.11	20.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.32	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.68 14.37	23.95
26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.17 14.37	23.95
26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	188.16 14.37	23.95
26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.90 16.42	27.36
26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.29 16.42	27.36
26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.38 16.42	27.36
26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	366.10 16.42	27.36
26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	340.05 16.42	27.36
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	314.98 16.42	27.36
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.66 16.42	27.36
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.33 18.47	30.79
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	585.98 18.47	30.79
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	503.53 20.52	34.21
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	381.25 20.52	34.21
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.16 10.26	17.10
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,091.28 10.26	17.10
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,093.26 10.26	17.10
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,092.50 12.32	20.52
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,007.45 12.32	20.52
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,079.56 14.37	23.95
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	995.13 14.37	23.95
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,110.75 14.37	23.95
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,089.45 14.37	23.95
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	973.83 16.42	27.36
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	999.45 16.42	27.36
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,321.52 16.42	27.36
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	969.18 16.42	27.36
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,479.19 18.47	30.79
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	862.53 18.47	30.79
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,248.10 18.47	30.79
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	848.44 18.47	30.79
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	872.95 18.47	30.79
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,910.17 18.47	30.79
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,883.68 18.47	30.79
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,701.95 18.47	30.79
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,075.45 20.52	34.21
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,248.20 20.52	34.21
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,449.26 20.52	34.21
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,949.41 20.52	34.21
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,301.36 20.52	34.21



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0148	EA		3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,172.77 22.58	37.62
26 28 13 00-0149	EA		3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,460.56 22.58	37.62
26 28 13 00-0150	EA		3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,170.88 22.58	37.62
26 28 13 00-0151	EA		4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,002.93 22.58	37.62
26 28 13 00-0152	EA		5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,721.38 22.58	37.62
26 28 13 00-0153	EA		6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,795.66 22.58	37.62
26 28 16 Enclosed Switches and Circuit Breakers (26 28)					
26 28 16 13 Enclosed Circuit Breakers (26 28 16)					
26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13) Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.					
26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001) Note: Includes connection of electrical wire.					
26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	61.48 17.26 -13.68	24.63
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	61.48 17.26 -13.68	24.63
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	83.98 22.47 -17.10	30.79
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	110.75 25.82 -17.10	30.79
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	141.36 29.64 -17.10	30.79
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	158.81 31.82 -17.10	30.79
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	93.89 23.71 -17.10	30.79
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	97.67 26.58 -20.53	36.94
26 28 16 13-0011	EA		2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	97.67 26.58 -20.53	36.94
26 28 16 13-0012	EA		2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	140.60 36.73 -27.37	49.26
26 28 16 13-0013	EA		2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	212.10 50.46 -34.21	61.57
26 28 16 13-0014	EA		2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards.	244.98 56.96 -37.63	68.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.15	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	194.13	43.79
For Bolt-On, Add	41.51	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	244.20	43.79
For Bolt-On, Add	47.76	
For Installation In New Panelboard, Deduct	-24.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.55	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	163.96	49.26
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	211.80	61.57
For Bolt-On, Add	50.42	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	300.40	73.88
For Bolt-On, Add	66.28	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	374.88	86.20
For Bolt-On, Add	80.38	
For Installation In New Panelboard, Deduct	-47.89	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^(26 28) ^(16 13-0001) Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	77.34	24.63
For Bolt-On, Add	19.25	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	124.53	30.79
For Bolt-On, Add	27.54	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	175.99	30.79
For Bolt-On, Add	33.97	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	139.43	36.94
For Bolt-On, Add	31.80	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	250.31	49.26
For Bolt-On, Add	50.44	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	335.30	61.57
For Bolt-On, Add	65.86	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	469.21	68.41
For Bolt-On, Add	84.99	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	



	Electrical	26
	Low-Voltage Electrical Distribution	26 20
	Low-Voltage Circuit Protective Devices	26 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	212.40	49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	212.40	49.26
For Bolt-On, Add	45.71	
For Installation In New Panelboard, Deduct	-27.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	305.17	61.57
For Bolt-On, Add	62.09	
For Installation In New Panelboard, Deduct	-34.21	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	420.00	73.88
For Bolt-On, Add	81.23	
For Installation In New Panelboard, Deduct	-41.05	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	621.22	86.20
For Bolt-On, Add	111.18	
For Installation In New Panelboard, Deduct	-47.89	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.47	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	709.54	92.36
For Bolt-On, Add	124.61	
For Installation In New Panelboard, Deduct	-51.31	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	761.54	98.51
For Bolt-On, Add	133.50	
For Installation In New Panelboard, Deduct	-54.73	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.68	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	888.87	104.67
For Bolt-On, Add	151.82	
For Installation In New Panelboard, Deduct	-58.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.78	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On <small>(2628 16 13-0001)</small>		
<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	87.76	24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	87.76	24.63
For Bolt-On, Add	20.55	
For Installation In New Panelboard, Deduct	-13.68	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	134.82	30.79
For Bolt-On, Add	28.82	
For Installation In New Panelboard, Deduct	-17.10	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	166.59	36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	166.59	36.94
For Bolt-On, Add	35.19	
For Installation In New Panelboard, Deduct	-20.53	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	276.36	49.26
For Bolt-On, Add	53.70	
For Installation In New Panelboard, Deduct	-27.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	642.39	61.57
For Bolt-On, Add	104.24	
For Installation In New Panelboard, Deduct	-34.21	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
For Bolt-On, Add	51.31	
For Installation In New Panelboard, Deduct	-27.37	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0049	EA		35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	257.23	49.26
			<i>For Bolt-On, Add</i>	51.31	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0050	EA		70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	337.80	61.57
			<i>For Bolt-On, Add</i>	66.17	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0051	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	792.84	73.88
			<i>For Bolt-On, Add</i>	127.84	
			<i>For Installation In New Panelboard, Deduct</i>	-41.05	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 28 16 13-0052			Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <small>(26 28</small>		
			<small>16 13-0001)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0053	EA		15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
			<i>For Bolt-On, Add</i>	21.65	
			<i>For Installation In New Panelboard, Deduct</i>	-13.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 28 16 13-0054	EA		35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	96.61	24.63
			<i>For Bolt-On, Add</i>	21.65	
			<i>For Installation In New Panelboard, Deduct</i>	-13.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 28 16 13-0055	EA		70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	115.67	30.79
			<i>For Bolt-On, Add</i>	26.43	
			<i>For Installation In New Panelboard, Deduct</i>	-17.10	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.52	
26 28 16 13-0056	EA		15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	174.81	30.79
			<i>For Bolt-On, Add</i>	33.82	
			<i>For Installation In New Panelboard, Deduct</i>	-17.10	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.52	
26 28 16 13-0057	EA		15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
			<i>For Bolt-On, Add</i>	38.08	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0058	EA		35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	189.68	36.94
			<i>For Bolt-On, Add</i>	38.08	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0059	EA		70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.52	49.26
			<i>For Bolt-On, Add</i>	48.47	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0060	EA		110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	328.56	61.57
			<i>For Bolt-On, Add</i>	65.02	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0061	EA		150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	412.92	68.41
			<i>For Bolt-On, Add</i>	77.95	
			<i>For Installation In New Panelboard, Deduct</i>	-37.63	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.15	
26 28 16 13-0062	EA		250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	511.00	80.05
			<i>For Bolt-On, Add</i>	95.00	
			<i>For Installation In New Panelboard, Deduct</i>	-44.47	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.36	
26 28 16 13-0063	EA		300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	557.38	92.36
			<i>For Bolt-On, Add</i>	105.59	
			<i>For Installation In New Panelboard, Deduct</i>	-51.31	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.57	
26 28 16 13-0064	EA		15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
			<i>For Bolt-On, Add</i>	48.52	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0065	EA		35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	234.91	49.26
			<i>For Bolt-On, Add</i>	48.52	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity		279.38	61.57
	<i>For Bolt-On, Add</i>		58.87	
	<i>For Installation In New Panelboard, Deduct</i>		-34.21	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		41.05	
	26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity		404.71	73.88
	<i>For Bolt-On, Add</i>		79.32	
	<i>For Installation In New Panelboard, Deduct</i>		-41.05	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		49.26	
	26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity		529.65	95.78
	<i>For Bolt-On, Add</i>		103.32	
	<i>For Installation In New Panelboard, Deduct</i>		-53.02	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		63.63	
	26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity		647.23	110.83
	<i>For Bolt-On, Add</i>		124.00	
	<i>For Installation In New Panelboard, Deduct</i>		-61.57	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		73.89	
	26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity		687.42	117.67
	<i>For Bolt-On, Add</i>		131.42	
	<i>For Installation In New Panelboard, Deduct</i>		-64.99	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		77.99	
	26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28</small>			
	<small>16 13-0001)</small>			
	<small>Note: Includes connection of electrical wire.</small>			
	26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		195.45	36.94
	<i>For Bolt-On, Add</i>		38.80	
	<i>For Installation In New Panelboard, Deduct</i>		-20.53	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		24.63	
	26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		195.45	36.94
	<i>For Bolt-On, Add</i>		38.80	
	<i>For Installation In New Panelboard, Deduct</i>		-20.53	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		24.63	
	26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		290.29	49.26
	<i>For Bolt-On, Add</i>		55.44	
	<i>For Installation In New Panelboard, Deduct</i>		-27.37	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.84	
	26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		453.18	61.57
	<i>For Bolt-On, Add</i>		80.59	
	<i>For Installation In New Panelboard, Deduct</i>		-34.21	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		41.05	
	26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		687.06	76.62
	<i>For Bolt-On, Add</i>		115.81	
	<i>For Installation In New Panelboard, Deduct</i>		-42.76	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		51.31	
	26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		771.64	80.05
	<i>For Bolt-On, Add</i>		127.58	
	<i>For Installation In New Panelboard, Deduct</i>		-44.47	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		53.36	
	26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		848.02	92.36
	<i>For Bolt-On, Add</i>		141.92	
	<i>For Installation In New Panelboard, Deduct</i>		-51.31	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		61.57	
	26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		277.06	49.26
	<i>For Bolt-On, Add</i>		53.79	
	<i>For Installation In New Panelboard, Deduct</i>		-27.37	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.84	
	26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		277.06	49.26
	<i>For Bolt-On, Add</i>		53.79	
	<i>For Installation In New Panelboard, Deduct</i>		-27.37	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.84	
	26 28 16 13-0081 EA 70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		348.53	61.57
	<i>For Bolt-On, Add</i>		67.51	
	<i>For Installation In New Panelboard, Deduct</i>		-34.21	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		41.05	
	26 28 16 13-0082 EA 110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity		561.06	73.88
	<i>For Bolt-On, Add</i>		98.87	
	<i>For Installation In New Panelboard, Deduct</i>		-41.05	
	<i>Note: Also for use with new interiors in panelboards.</i>			
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		49.26	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0083 EA 150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	807.51	95.78
For Bolt-On, Add	138.05	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0084 EA 250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	951.94	110.83
For Bolt-On, Add	162.09	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	
26 28 16 13-0085 EA 300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,027.01	117.67
For Bolt-On, Add	173.87	
For Installation In New Panelboard, Deduct	-64.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.99	
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28</small>		
<small>16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	201.18	36.94
For Bolt-On, Add	39.52	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	343.22	49.26
For Bolt-On, Add	62.06	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	599.93	61.57
For Bolt-On, Add	98.94	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	929.64	76.62
For Bolt-On, Add	146.14	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,050.63	80.05
For Bolt-On, Add	162.46	
For Installation In New Panelboard, Deduct	-44.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,149.09	92.36
For Bolt-On, Add	179.55	
For Installation In New Panelboard, Deduct	-51.31	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.57	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	316.75	49.26
For Bolt-On, Add	58.75	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	417.34	61.57
For Bolt-On, Add	76.11	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	728.73	73.88
For Bolt-On, Add	119.82	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	922.78	95.78
For Bolt-On, Add	152.46	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,430.96	110.83
For Bolt-On, Add	221.97	
For Installation In New Panelboard, Deduct	-61.57	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.89	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0100	EA		3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,522.97	117.67
			<i>For Bolt-On, Add</i>	235.87	
			<i>For Installation In New Panelboard, Deduct</i>	-64.99	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.99	
26 28 16 13-0101			Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
			^{16 13-0001)} <i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0102	EA		1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	111.06	24.63
			<i>For Bolt-On, Add</i>	23.46	
			<i>For Installation In New Panelboard, Deduct</i>	-13.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 28 16 13-0103	EA		1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	111.06	24.63
			<i>For Bolt-On, Add</i>	23.46	
			<i>For Installation In New Panelboard, Deduct</i>	-13.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	
26 28 16 13-0104	EA		1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	180.37	30.79
			<i>For Bolt-On, Add</i>	34.52	
			<i>For Installation In New Panelboard, Deduct</i>	-17.10	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.52	
26 28 16 13-0105	EA		2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	224.66	36.94
			<i>For Bolt-On, Add</i>	42.45	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0106	EA		2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	224.66	36.94
			<i>For Bolt-On, Add</i>	42.45	
			<i>For Installation In New Panelboard, Deduct</i>	-20.53	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.63	
26 28 16 13-0107	EA		2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	391.80	49.26
			<i>For Bolt-On, Add</i>	68.13	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0108	EA		2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	696.96	61.57
			<i>For Bolt-On, Add</i>	111.07	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0109	EA		2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,312.89	76.62
			<i>For Bolt-On, Add</i>	194.04	
			<i>For Installation In New Panelboard, Deduct</i>	-42.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.31	
26 28 16 13-0110	EA		3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	359.11	49.26
			<i>For Bolt-On, Add</i>	64.04	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0111	EA		3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	359.11	49.26
			<i>For Bolt-On, Add</i>	64.04	
			<i>For Installation In New Panelboard, Deduct</i>	-27.37	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.84	
26 28 16 13-0112	EA		3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	476.19	61.57
			<i>For Bolt-On, Add</i>	83.47	
			<i>For Installation In New Panelboard, Deduct</i>	-34.21	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.05	
26 28 16 13-0113	EA		3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	856.64	73.88
			<i>For Bolt-On, Add</i>	135.81	
			<i>For Installation In New Panelboard, Deduct</i>	-41.05	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.26	
26 28 16 13-0114	EA		3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,632.11	95.78
			<i>For Bolt-On, Add</i>	241.13	
			<i>For Installation In New Panelboard, Deduct</i>	-53.02	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.63	
26 28 16 13-0115			Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
			^{16 13-0001)} <i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0116	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	151.76	24.63
			<i>For Bolt-On, Add</i>	28.55	
			<i>For Installation In New Panelboard, Deduct</i>	-13.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.42	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0117 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	151.76	24.63
For Bolt-On, Add	28.55	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	223.66	30.79
For Bolt-On, Add	39.93	
For Installation In New Panelboard, Deduct	-17.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.52	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	271.75	36.94
For Bolt-On, Add	48.34	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	493.17	49.26
For Bolt-On, Add	80.80	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	868.97	61.57
For Bolt-On, Add	132.57	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,680.94	68.41
For Bolt-On, Add	236.46	
For Installation In New Panelboard, Deduct	-37.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	453.48	49.26
For Bolt-On, Add	75.84	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	621.99	61.57
For Bolt-On, Add	101.69	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	984.54	73.88
For Bolt-On, Add	151.80	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,130.66	95.78
For Bolt-On, Add	303.45	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	81.50	24.63
For Bolt-On, Add	19.77	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	157.55	36.94
For Bolt-On, Add	34.06	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	240.89	49.26
For Bolt-On, Add	49.27	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	144.79	24.63
For Bolt-On, Add	27.68	
For Installation In New Panelboard, Deduct	-13.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.42	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	288.53	49.26
For Bolt-On, Add	55.22	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	310.54	36.94
For Bolt-On, Add	53.19	
For Installation In New Panelboard, Deduct	-20.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.63	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	580.60	49.26
For Bolt-On, Add	91.73	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	966.00	61.57
For Bolt-On, Add	144.70	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,074.71	76.62
For Bolt-On, Add	289.27	
For Installation In New Panelboard, Deduct	-42.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.31	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	508.97	49.26
For Bolt-On, Add	82.78	
For Installation In New Panelboard, Deduct	-27.37	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.84	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	702.54	61.57
For Bolt-On, Add	111.76	
For Installation In New Panelboard, Deduct	-34.21	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.05	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	1,055.11	73.88
For Bolt-On, Add	160.62	
For Installation In New Panelboard, Deduct	-41.05	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.26	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	2,579.61	95.78
For Bolt-On, Add	359.57	
For Installation In New Panelboard, Deduct	-53.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.63	

26 28 16 16 Enclosed Switches (26 28 16)

26 28 16 16-0001	Motor And Circuit Disconnects (26 28 16 16)		
	Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002	NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0003	Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
	Note: Includes fuses and neutral bar.		
26 28 16 16-0004	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0005	EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	464.75	136.83
26 28 16 16-0006	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	711.94	164.87
26 28 16 16-0007	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	966.04	192.93
26 28 16 16-0008	EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,653.74	303.75
26 28 16 16-0009	EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,452.40	472.05

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0010 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,731.93	697.82
26 28 16 16-0011 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,771.32	820.96
26 28 16 16-0012 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,380.78	957.79
26 28 16 16-0013 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	686.60	152.02
26 28 16 16-0015 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	828.29	183.21
26 28 16 16-0016 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,288.84	214.13
26 28 16 16-0017 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,913.53	337.96
26 28 16 16-0018 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,096.96	524.32
26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,370.89	774.99
26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,334.85	911.68
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,686.60	1,064.24
26 28 16 16-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	668.70	214.82
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	973.59	285.29
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,286.14	316.75
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,032.57	496.00
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,142.55	814.12
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,669.79	1,140.45
26 28 16 16-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	857.63	237.39
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,095.51	316.75
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,573.36	356.44
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,323.44	543.20
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,051.90	877.06
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,076.11	1,267.02
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,662.33	1,505.10
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,106.86	1,710.34
26 28 16 16-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	650.35	214.82
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	949.88	285.29
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,243.00	316.75
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,091.91	496.00
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,476.98	814.12
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,172.91	1,140.45
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,705.19	1,436.68
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,386.34	1,641.93



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0047	600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>	
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	924.97	237.39
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,178.26	316.75
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,694.36	356.44
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,504.57	543.20
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,438.36	877.06
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,758.64	1,267.02
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,795.49	1,505.10
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,330.91	1,710.34
26 28 16 16-0056	Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>	
26 28 16 16-0057	240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>	
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	453.14	197.99
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	695.62	275.43
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	942.48	316.75
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,478.98	506.80
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,937.96	844.63
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,744.45	1,151.81
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,708.23	1,368.27
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,804.01	1,596.91
26 28 16 16-0066	600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>	
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	500.45	218.51
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	786.94	309.10
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,063.68	351.92
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,651.90	550.87
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,160.67	904.97
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,246.88	1,266.88
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,400.92	1,368.27
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,752.62	1,596.91
26 28 16 16-0075	240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>	
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	535.80	177.88
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	810.61	247.65
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,074.72	285.29
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,691.64	456.31
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,328.45	760.08
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,293.56	1,036.46
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,898.40	1,231.44
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,531.70	1,436.68

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	585.41		196.34
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	893.55		278.45
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,174.10		316.75
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,826.64		496.00
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,566.18		814.12
26 28 16 16-0090	EA	600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,730.90		1,140.45
26 28 16 16-0091	EA	800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,356.31		1,231.44
26 28 16 16-0092		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0093	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	619.58		196.62
26 28 16 16-0094	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	951.82		278.16
26 28 16 16-0095	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,268.87		316.75
26 28 16 16-0096	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,972.61		495.72
26 28 16 16-0097	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,770.36		814.39
26 28 16 16-0098	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,335.19		1,140.18
26 28 16 16-0099	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,046.52		1,231.44
26 28 16 16-0100	EA	1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	13,077.28		1,436.68
26 28 16 16-0101		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0102	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.00		178.15
26 28 16 16-0103	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,056.76		247.93
26 28 16 16-0104	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,582.40		285.01
26 28 16 16-0105	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,385.98		456.04
26 28 16 16-0106		480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0107	EA	30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	937.13		196.34
26 28 16 16-0108	EA	60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,157.31		278.45
26 28 16 16-0109	EA	100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,718.06		316.75
26 28 16 16-0110	EA	200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,570.59		496.00
26 28 16 16-0111		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>			
26 28 16 16-0112	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,032.24		196.62
26 28 16 16-0113	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,262.21		278.16
26 28 16 16-0114	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,906.71		316.75
26 28 16 16-0115	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,845.39		495.72
26 28 16 16-0116		General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small> Note: Includes fuses and neutral bar.			
26 28 16 16-0117		240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>			



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	332.05	119.04
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	445.09	143.26
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	663.63	167.48
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,210.18	264.22
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,791.49	409.79
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,156.96	606.56
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	467.85	187.05
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	653.98	247.93
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	879.50	275.43
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,545.15	431.14
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,390.82	708.22
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,931.79	991.45
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	512.22	187.05
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	725.53	247.93
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	944.60	275.43
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,709.17	431.14
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,671.17	708.22
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,109.50	991.45
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	454.88	165.56
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	593.55	190.32
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,290.54	304.17
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,709.78	506.26
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,616.83	689.88
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	429.15	154.88
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	589.31	215.50
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	864.58	247.93
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,476.16	396.66
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,020.35	661.14
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,041.37	901.14
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0153		Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small> Note: With fuses, neutral bar, and hub if required.			
26 28 16 16-0154		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>			
26 28 16 16-0155	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	666.55	160.77	
26 28 16 16-0156	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,035.35	192.93	
26 28 16 16-0157	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,287.35	224.40	
26 28 16 16-0158	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,889.80	342.07	
26 28 16 16-0159	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,092.80	547.31	
26 28 16 16-0160	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,081.87	729.97	
26 28 16 16-0161	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,509.07	820.96	
26 28 16 16-0162	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,873.64	957.79	
26 28 16 16-0163		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>			
26 28 16 16-0164	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,122.34	214.27	
26 28 16 16-0165	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,339.45	262.70	
26 28 16 16-0166	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,872.79	301.70	
26 28 16 16-0167	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,649.59	452.49	
26 28 16 16-0168	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,668.70	740.37	
26 28 16 16-0169	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,287.89	1,018.13	
26 28 16 16-0170	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,996.59	1,172.34	
26 28 16 16-0171	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	16,531.50	1,319.69	
26 28 16 16-0172		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>			
26 28 16 16-0173	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	869.51	253.13	
26 28 16 16-0174	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,353.59	335.23	
26 28 16 16-0175	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,616.94	368.06	
26 28 16 16-0176	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,407.39	569.89	
26 28 16 16-0177	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,093.69	950.26	
26 28 16 16-0178	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,370.26	1,267.02	
26 28 16 16-0179		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>			
26 28 16 16-0180	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,295.95	300.06	
26 28 16 16-0181	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,550.15	367.79	
26 28 16 16-0182	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,047.49	422.25	
26 28 16 16-0183	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,982.26	633.51	
26 28 16 16-0184	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,161.89	1,036.60	
26 28 16 16-0185	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	10,952.51	1,425.33	
26 28 16 16-0186	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	15,354.59	1,641.93	
26 28 16 16-0187	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,333.26	1,847.17	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	944.76	253.13
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,355.77	335.23
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,722.74	368.06
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,477.96	569.89
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,158.43	950.26
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,082.28	1,267.02
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,889.40	1,436.68
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,500.87	1,641.93
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,339.12	300.34
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,598.69	368.06
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,155.37	422.11
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,052.38	633.51
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,415.41	1,036.46
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,243.79	1,425.05
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,271.80	1,641.93
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	19,542.27	1,847.17
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	628.12	140.80
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,011.86	194.98
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,317.56	223.58
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,778.38	362.05
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,880.06	603.95
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,959.38	805.23
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,064.12	958.20
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,539.38	1,095.02
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	705.88	155.16
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,145.25	217.15
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,484.91	245.19
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,965.23	380.10
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,383.11	633.51
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,504.08	844.63
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,792.46	1,003.77

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,489.67	1,140.18
26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	768.89	211.12
26 28 16 16-0227 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,206.77	292.40
26 28 16 16-0228 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,541.13	335.37
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,140.36	543.06
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,538.18	905.79
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,870.76	1,207.49
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,140.84	1,436.68
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,971.81	1,641.93
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	836.74	232.61
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,318.04	325.79
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,668.21	367.79
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,269.96	570.16
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,821.50	950.13
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,378.50	1,266.88
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,939.36	1,505.10
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,012.68	1,710.34
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	493.48	232.61
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,362.44	325.79
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,730.12	367.79
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,345.30	570.16
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,016.56	950.13
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,348.69	1,266.88
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,922.66	1,505.10
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,989.96	1,710.34
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	424.04	139.83
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	586.67	167.75
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	761.64	195.11
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,521.51	297.46
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,623.14	475.88



Electrical	26	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,339.71	634.87
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	585.67	220.43
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	834.69	291.58
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,010.63	319.90
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,919.05	495.72
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,325.59	826.16
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,282.86	1,102.01
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	647.83	220.29
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	897.17	291.58
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,211.51	319.90
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,048.74	495.72
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,408.90	826.30
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,932.59	1,102.01
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,207.89	1,248.40
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	381.15	122.46
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	611.66	169.53
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	649.32	194.43
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,556.65	314.71
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,722.13	525.14
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,473.14	700.14
26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	593.43	183.62
26 28 16 16-0285 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	850.33	254.23
26 28 16 16-0286 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,213.32	291.58
26 28 16 16-0287 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,074.56	472.19
26 28 16 16-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		
26 28 16 16-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)		
26 28 16 16-0291 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,656.37	136.83

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0292 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,989.91	164.87
26 28 16 16-0293 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,003.46	192.66
26 28 16 16-0294 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,551.95	304.03
26 28 16 16-0295 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,229.74	471.78
26 28 16 16-0296 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,149.45	697.55
26 28 16 16-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0298 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,093.51	152.02
26 28 16 16-0299 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,333.57	183.08
26 28 16 16-0300 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,330.77	214.00
26 28 16 16-0301 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,134.51	337.96
26 28 16 16-0302 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,675.72	524.60
26 28 16 16-0303 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,750.19	774.99
26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0305 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,885.31	215.09
26 28 16 16-0306 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,369.06	285.01
26 28 16 16-0307 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,430.56	316.75
26 28 16 16-0308 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,315.98	495.72
26 28 16 16-0309 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,255.33	814.39
26 28 16 16-0310 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,480.73	1,140.18
26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0312 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,270.12	237.54
26 28 16 16-0313 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,606.93	316.75
26 28 16 16-0314 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,627.45	356.30
26 28 16 16-0315 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,561.43	542.93
26 28 16 16-0316 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,670.70	877.06
26 28 16 16-0317 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,037.25	1,266.88
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,237.15	215.09
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,808.89	285.01
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,310.67	316.75
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,519.49	495.72
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,623.97	814.39
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,735.82	1,140.18
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,685.86	237.54



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,078.36	316.75
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,525.82	356.30
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,775.00	542.93
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,071.31	877.06
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,336.72	1,266.88
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,591.44	136.83
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,946.53	190.32
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,608.85	218.92
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,025.37	349.72
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,127.39	582.34
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,056.47	793.32
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,807.99	150.92
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,216.24	213.45
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,110.48	243.28
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,704.15	380.10
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,351.40	625.57
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,859.93	875.69
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,674.10	178.15
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,036.62	247.93
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,135.89	285.01
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,083.15	456.04
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,846.15	760.21
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,920.71	1,036.60
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,899.21	196.62
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,345.66	278.16
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,257.43	316.75
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,935.33	495.72
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,780.99	814.39
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,820.53	1,140.18

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,275.60	178.15
26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,742.14	247.93
26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,062.80	285.01
26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,257.13	456.04
26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,586.64	196.62
26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,123.51	278.16
26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,910.81	316.75
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,528.59	495.72
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,011.63	237.39
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,451.05	316.75
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,118.95	356.44
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,995.90	543.20
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,809.95	196.34
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,242.17	278.45
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,776.51	316.75
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,877.75	496.00
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,430.24	237.39
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,919.46	316.75
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,004.78	356.44
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,206.03	196.34
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,685.68	278.45
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,626.77	316.75
26 28 16 16-0391 NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0392	Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches	
<i>(26 28 16 16-0391)</i>		
Note: With fuses and neutral bar.		
26 28 16 16-0393 EA 30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,746.85	273.66
26 28 16 16-0394 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,108.35	325.79
26 28 16 16-0395 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,449.68	367.79
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	7,237.18	570.16
26 28 16 16-0397	Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0391)</i>	
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,178.24	325.79
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,543.85	367.79
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,634.73	570.16
26 28 16 16-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0001)</i>	
26 28 16 16-0402	Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0401)</i>	
Note: With fuses and neutral bar.		
26 28 16 16-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0402)</i>	
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	638.84	136.83
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	828.79	164.87
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,118.20	192.93
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,877.74	303.75
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,937.37	472.05
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,048.08	697.82
26 28 16 16-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0402)</i>	
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	978.33	151.88
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,019.12	183.35
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,448.38	214.13
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,267.28	337.96
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,862.92	524.05
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,515.75	775.13
26 28 16 16-0417	240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0402)</i>	
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	897.69	214.82
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,238.41	285.29
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,662.05	316.75
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,480.22	496.00
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,806.02	814.12
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,649.79	1,140.45
26 28 16 16-0424	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <i>(26 28 16 16-0402)</i>	
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,176.34	237.39
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,350.88	316.75
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,947.88	356.44
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,844.41	543.20
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,859.11	877.06

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,873.13	1,267.02
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	953.51	214.82
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,276.76	285.29
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,782.41	316.75
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,631.32	496.00
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,210.59	814.12
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,923.11	1,140.45
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,241.05	237.39
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,523.50	316.75
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,066.57	356.44
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,070.96	543.20
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,225.90	877.06
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,175.20	1,267.02
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	666.00	197.72
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	886.65	275.71
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,162.75	316.75
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,672.77	506.94
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,606.93	844.90
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,662.07	1,152.09
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	741.75	218.24
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	986.13	309.23
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,295.64	351.65
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,817.56	550.73
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,822.64	905.11
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,255.58	1,267.02
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	858.46	177.88
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,134.39	247.65
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,493.95	285.29
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,150.46	456.31
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,456.34	760.08



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Circuit Protective Devices	26 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,972.63	1,036.46
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	848.45	196.34
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,230.48	278.45
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,604.40	316.75
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,140.45	496.00
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,493.17	814.12
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,267.93	1,140.45
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,018.14	177.88
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,225.20	247.65
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,865.98	285.29
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,960.44	456.31
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,265.65	581.52
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,062.06	196.34
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,338.36	278.45
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,998.17	316.75
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,052.04	496.00
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,655.95	766.23
26 28 16 16-0486 Double Throw Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	803.56	175.82
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,175.27	229.87
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,639.88	300.34
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,182.89	390.64
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,090.46	488.48
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,219.79	783.33
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,653.06	1,094.61
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,550.80	1,231.44
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	18,291.09	1,368.27
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,023.46	246.29
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,419.97	321.54
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,112.51	420.74
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,074.57	547.31
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,018.77	684.14
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,849.30	1,094.61
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,509.58	1,231.44
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,308.69	1,368.27
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,289.96	1,505.10

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0508	240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>		
26 28 16 16-0509 EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,352.33	307.86
26 28 16 16-0510 EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,949.54	402.27
26 28 16 16-0511 EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,386.50	525.42
26 28 16 16-0512 EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,624.67	682.77
26 28 16 16-0513 EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,117.37	855.16
26 28 16 16-0514 EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,647.60	1,370.32
26 28 16 16-0515 EA	800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	14,652.22	1,505.10
26 28 16 16-0516 EA	1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,324.45	1,573.51
26 28 16 16-0517 EA	1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	21,627.84	1,641.93
26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>			
26 28 16 16-0519 EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,343.57	229.87
26 28 16 16-0520 EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,002.58	300.34
26 28 16 16-0521 EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,931.77	390.64
26 28 16 16-0522 EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	6,745.88	488.48
26 28 16 16-0523 EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,995.50	783.33
26 28 16 16-0524 EA	800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,499.48	1,094.61
26 28 16 16-0525 EA	1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,859.59	1,231.44
26 28 16 16-0526 EA	1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,846.55	1,368.27
26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>			
26 28 16 16-0528 EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,526.72	321.54
26 28 16 16-0529 EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,242.73	420.74
26 28 16 16-0530 EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,243.75	547.31
26 28 16 16-0531 EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,136.87	684.14
26 28 16 16-0532 EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	10,619.84	1,094.61
26 28 16 16-0533 EA	800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,414.25	1,231.44
26 28 16 16-0534 EA	1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,954.98	1,368.27
26 28 16 16-0535 EA	1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,917.95	1,505.10
26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small>			
26 28 16 16-0537 EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,054.99	402.27
26 28 16 16-0538 EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,538.59	525.42
26 28 16 16-0539 EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,939.71	682.77
26 28 16 16-0540 EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	9,788.06	855.16
26 28 16 16-0541 EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	12,397.92	1,370.32
26 28 16 16-0542 EA	800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,816.42	1,505.10
26 28 16 16-0543 EA	1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,942.20	1,573.51
26 28 16 16-0544 EA	1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	23,462.23	1,641.93
26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>			
26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>			
26 28 16 16-0547 EA	100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,021.28	300.34
26 28 16 16-0548 EA	200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,523.88	390.64
26 28 16 16-0549 EA	400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,520.81	488.48
26 28 16 16-0550 EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	24,987.45	783.33
26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>			
26 28 16 16-0552 EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,659.43	420.06
26 28 16 16-0553 EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,244.11	546.62
26 28 16 16-0554 EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	15,039.42	684.14
26 28 16 16-0555 EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	16,476.63	1,096.67
26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>			
26 28 16 16-0557 EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,526.88	307.99



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,141.07	402.00
26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,389.70	525.28
26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,320.05	683.04
26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	10,616.29	855.16
26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,523.52	1,370.45
26 28 16 16-0563 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,704.95	229.87
26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,576.44	300.34
26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,631.74	390.64
26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	8,813.59	488.48
26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	11,827.57	783.33
26 28 16 16-0569 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,954.53	321.54
26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,920.82	420.06
26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,146.34	546.62
26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,617.06	684.14
26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,991.24	1,096.67
26 28 16 16-0575 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>		
26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,165.46	402.00
26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,400.88	525.28
26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,475.37	683.04
26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	10,597.95	855.16
26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	12,624.60	1,370.45
26 28 16 16-0581 NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>		
26 28 16 16-0582 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,995.68	175.95
26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,271.94	229.73
26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,585.88	300.20
26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,546.62	390.36
26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,536.28	488.61
26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,611.00	783.06
26 28 16 16-0589 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,309.95	246.29
26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,743.51	321.54
26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,270.29	420.06
26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,544.73	546.62
26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,166.48	684.14
26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,863.41	1,096.67
26 28 16 16-0596 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,428.43	307.99
26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,026.88	402.00
26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,511.30	525.28
26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,476.09	683.04
26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,685.28	855.16
26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	17,118.50	1,370.45
26 28 16 16-0603 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,969.79	229.73
26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,144.91	300.20
26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,895.59	390.36
26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,479.67	488.61
26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	11,434.14	783.06
26 28 16 16-0609 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0610 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,285.69	321.54

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0611 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,519.11	420.06
26 28 16 16-0612 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,476.52	546.62
26 28 16 16-0613 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,265.25	684.14
26 28 16 16-0614 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,576.69	1,096.67
26 28 16 16-0615 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0616 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,066.63	402.00
26 28 16 16-0617 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,804.57	525.28
26 28 16 16-0618 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,648.95	683.04
26 28 16 16-0619 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	14,057.35	855.16
26 28 16 16-0620 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	17,611.68	1,370.45
26 28 16 16-0621 Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small> Note: Includes storage and cleaning.		
26 28 16 16-0622 EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	684.14	
26 28 16 16-0623 EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	889.41	
26 28 16 16-0624 EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	992.07	
26 28 16 16-0625 EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,163.10	
26 28 16 16-0626 Bolted Contact Switches <small>(26 28 16 16)</small> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0627 Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628 Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0629 EA 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	8,880.53	1,368.27
26 28 16 16-0630 EA 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	9,691.44	1,641.93
26 28 16 16-0631 EA 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	10,608.80	1,915.58
26 28 16 16-0632 EA 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	11,282.84	2,189.23
26 28 16 16-0633 EA 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	12,737.55	2,462.88
26 28 16 16-0634 EA 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	15,804.30	2,736.54
26 28 16 16-0635 EA 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	21,106.43	3,283.85
26 28 16 16-0636 Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0637 EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	9,372.25	1,368.27
26 28 16 16-0638 EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	10,279.48	1,641.93
26 28 16 16-0639 EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	11,191.77	1,915.58
26 28 16 16-0640 EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	12,119.27	2,189.23
26 28 16 16-0641 EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	13,639.89	2,462.88
26 28 16 16-0642 EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	17,497.45	2,736.54
26 28 16 16-0643 EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	22,870.54	3,283.85
26 28 16 16-0644 Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0645 Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0646 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	6,670.31	1,368.27
26 28 16 16-0647 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	7,507.59	1,641.93
26 28 16 16-0648 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	8,386.42	1,915.58
26 28 16 16-0649 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	9,259.18	2,189.23
26 28 16 16-0650 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	10,182.63	2,462.88
26 28 16 16-0651 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	13,249.38	2,736.54
26 28 16 16-0652 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	18,490.67	3,283.85
26 28 16 16-0653 Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0654 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	6,995.76	1,368.27
26 28 16 16-0655 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	7,999.31	1,641.93
26 28 16 16-0656 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	8,862.93	1,915.58
26 28 16 16-0657 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	9,888.78	2,189.23
26 28 16 16-0658 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	10,973.44	2,462.88
26 28 16 16-0659 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	14,815.79	2,736.54
26 28 16 16-0660 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	20,133.12	3,283.85
26 29 Low-Voltage Controllers <small>(26 20)</small>		
26 29 13 Enclosed Controllers <small>(26 29)</small>		
26 29 13 13 Across-The-Line Motor Controllers <small>(26 29 13)</small>		
26 29 13 13-0001 Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002 Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0003	EA		NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	244.79	68.51
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.99	
			<i>For Oversized Enclosure, Add</i>	30.07	
			<i>For Pilot Light, Add</i>	44.10	
26 29 13 13-0004	EA		NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	320.49	89.06
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.99	
			<i>For Oversized Enclosure, Add</i>	30.07	
			<i>For Pilot Light, Add</i>	44.10	
26 29 13 13-0005	EA		NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	274.86	68.51
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.99	
			<i>For Oversized Enclosure, Add</i>	30.07	
			<i>For Pilot Light, Add</i>	44.10	
26 29 13 13-0006	EA		NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	350.56	89.06
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.99	
			<i>For Oversized Enclosure, Add</i>	30.07	
			<i>For Pilot Light, Add</i>	44.10	
26 29 13 13-0007	EA		NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	257.82	68.51
			<i>For Oversized Enclosure, Add</i>	30.07	
26 29 13 13-0008	EA		NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	337.53	89.06
			<i>For Oversized Enclosure, Add</i>	30.07	
26 29 13 13-0009	EA		NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	506.74	82.22
			<i>For Pilot Light, Add</i>	115.27	
26 29 13 13-0010	EA		NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	585.45	102.77
			<i>For Pilot Light, Add</i>	115.27	
26 29 13 13-0011	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	536.81	82.22
26 29 13 13-0012	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	612.51	102.77
26 29 13 13-0013	Non Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>				
26 29 13 13-0014	EA		NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	200.86	68.51
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0015	EA		NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	322.25	89.06
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0016	EA		NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	226.16	75.37
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0017	EA		NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	348.51	95.92
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0018	EA		NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	228.91	68.51
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0019	EA		NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	351.26	89.06
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.51	
			<i>For Pilot Light, Add</i>	69.64	
26 29 13 13-0020	EA		NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	468.12	82.22
			<i>For Pilot Light, Add</i>	110.26	
26 29 13 13-0021	EA		NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	578.87	102.77
			<i>For Pilot Light, Add</i>	110.26	
26 29 13 13-0022	EA		NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	494.41	89.06
			<i>For Pilot Light, Add</i>	110.26	
26 29 13 13-0023	EA		NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	602.24	109.62
			<i>For Pilot Light, Add</i>	110.26	
26 29 13 13-0024	EA		NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	495.20	82.22
26 29 13 13-0025	EA		NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	613.69	102.77

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 29 Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	146.21	47.96
For Pilot Light, Add	69.64	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	267.60	68.51
For Pilot Light, Add	69.64	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	171.52	54.81
For Pilot Light, Add	69.64	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	292.89	75.37
For Pilot Light, Add	69.64	
26 29 13 13-0030 Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11)	524.23	123.32
For Pilot Light, Add	112.19	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22)	755.38	164.43
For Pilot Light, Add	112.19	
26 29 13 13-0033 Two Speed Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11)	524.23	123.32
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	755.38	164.43
26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1)	472.17	82.22
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1)	472.17	82.22
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11)	956.64	95.92
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1)	956.64	95.92
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1)	1,241.30	95.92
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	598.80	95.92
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1)	400.99	61.66
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1)	558.05	89.06
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1)	558.05	89.06
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,141.75	102.77
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1)	1,141.75	102.77
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,448.47	102.77
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	684.68	102.77
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1)	486.87	68.51
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2)	727.10	95.92
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2)	727.10	95.92
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12)	1,353.91	109.62
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,353.91	109.62
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2)	1,647.60	109.62
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	856.75	109.62
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2)	658.93	75.37
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2)	584.95	102.77
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	584.95	102.77
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12)	1,069.42	116.48
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2)	1,069.42	116.48
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2)	1,362.11	116.48



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0063	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2)	712.59	116.48
26 29 13 13-0064	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2)	516.78	82.22
26 29 13 13-0065	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3)	670.82	109.62
26 29 13 13-0066	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3)	670.82	109.62
26 29 13 13-0067	EA		NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13)	1,254.53	123.32
26 29 13 13-0068	EA		NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3)	1,254.53	123.32
26 29 13 13-0069	EA		NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3)	1,568.27	123.32
26 29 13 13-0070	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3)	797.46	123.32
26 29 13 13-0071	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3)	599.65	89.06
26 29 13 13-0072			Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0073	EA		NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1)	1,338.74	143.88
26 29 13 13-0074	EA		NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1)	1,338.74	143.88
26 29 13 13-0075	EA		Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1)	1,171.33	102.77
26 29 13 13-0076	EA		NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1)	1,579.64	157.58
26 29 13 13-0077	EA		Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1)	1,412.23	116.48
26 29 13 13-0078			Two Speed Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0079	EA		NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1)	1,338.74	143.88
26 29 13 13-0080	EA		Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	1,171.33	102.77
26 29 13 13-0081	EA		NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1)	1,579.64	157.58
26 29 13 13-0082	EA		Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1)	1,412.23	116.48
26 29 13 13-0083			Magnetic Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0084			Non Reversing, Magnetic Contactors <small>(26 29 13 13-0083)</small>		
26 29 13 13-0085			Open Enclosure, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086	EA		Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11)	561.72	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0087	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12)	631.23	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0088	EA		Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5)	603.82	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0089	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1)	674.33	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0090	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2)	743.83	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0091	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3)	939.32	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0092	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4)	1,178.89	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0093	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5)	701.40	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0094	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1)	770.89	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0095	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2)	842.40	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0096	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3)	1,079.99	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,318.57	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,157.80	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,295.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,689.77	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,724.15	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2).....	1,976.44	274.05
<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,512.40	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,563.56	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,854.54	342.56
<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,249.17	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,727.33	479.59
<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,690.22	411.08
<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,564.67	548.10
<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,031.00	822.15
<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2).....	31,562.52	1,233.22
<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11).....	592.80	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12).....	662.30	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5).....	634.89	137.03
<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1).....	706.41	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2).....	775.91	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3).....	973.40	205.54
<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,213.98	246.65
<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5).....	734.47	150.72
<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1).....	805.98	164.43
<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2).....	875.47	178.14
<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,114.07	239.80
<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,351.65	280.91
<i>For Factory Installed Accessory, Deduct</i>	-561.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0125	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,306.15	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0126	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,444.50	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0127	EA		Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,838.12	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0128	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1).....	2,015.83	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0129	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,267.12	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0130	EA		Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,804.09	342.56
			<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0131	EA		Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,458.96	342.56
			<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0132	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2).....	4,853.58	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0133	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,666.25	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0134	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2).....	26,875.33	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0135	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJJG2).....	36,420.89	1,233.22
			<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0136			NEMA 12, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1).....	877.81	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0138	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2).....	947.31	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0139	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,046.88	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0140	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,618.88	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0141	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,758.23	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0142	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,386.70	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0143	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,636.99	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0144	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2).....	6,081.45	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0145	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2).....	12,808.60	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0146	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2).....	30,728.34	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0147			NEMA 4/4X, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0148	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,276.08	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0149	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,320.18	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0150	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,389.68	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,628.28	239.80
			<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,472.90	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,722.53	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,338.39	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12).....	12,808.60	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,012.02	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0157			NEMA 7/9, Non Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,513.33	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0159			Non Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160			Open Enclosure, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11).....	660.96	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12).....	688.37	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1).....	737.48	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2).....	815.00	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4).....	1,304.19	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1).....	837.05	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3).....	977.71	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2).....	1,019.81	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO6).....	1,249.01	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDO1).....	1,424.45	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1).....	2,189.94	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1).....	4,577.94	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1).....	10,269.66	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2).....	23,451.32	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2).....	33,799.75	1,233.22
			<i>For Factory Installed Accessory, Deduct</i>	-2,466.45	
26 29 13 13-0176			NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11).....	694.03	137.03
			<i>For Factory Installed Accessory, Deduct</i>	-274.05	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12).....	721.44	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1).....	770.56	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2).....	848.07	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1).....	869.12	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3).....	947.64	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2).....	1,053.89	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6).....	1,398.36	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1).....	1,573.80	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1).....	2,481.62	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1).....	5,182.35	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1).....	11,374.25	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0189			NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1).....	941.96	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	1,019.48	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	1,040.52	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	1,119.04	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,225.29	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,712.10	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0196	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,886.53	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0197	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,851.49	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0198	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	6,409.22	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0199	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	14,513.59	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0200	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	34,448.04	822.15
			<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0201			NEMA 3R, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	941.96	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0203	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	1,019.48	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0204	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	1,040.52	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	1,119.04	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,225.29	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,712.10	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,886.53	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,851.49	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	6,409.22	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	3,204.29	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	3,303.87	246.65
			<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	5,085.72	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	6,136.88	342.56
			<i>For Factory Installed Accessory, Deduct</i>	-685.13	
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	9,757.75	479.59
			<i>For Factory Installed Accessory, Deduct</i>	-959.17	
26 29 13 13-0218			NEMA 4/4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,269.73	150.72
			<i>For Factory Installed Accessory, Deduct</i>	-301.46	
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,348.24	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,383.33	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,461.85	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,568.10	178.14
			<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,424.76	164.43
			<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,936.03	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW11).....	7,665.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	16,928.24	548.10
			<i>For Factory Installed Accessory, Deduct</i>	-1,096.20	
26 29 13 13-0228			NEMA 4X, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,602.21	205.54
			<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,784.01	274.05
			<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFW21).....	9,377.16	411.08
			<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0232			NEMA 7/9, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,534.38	219.24
			<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,620.92	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,657.01	232.94
			<i>For Factory Installed Accessory, Deduct</i>	-465.88	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3)	2,739.55	246.65
		<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2)	2,861.83	246.65
		<i>For Factory Installed Accessory, Deduct</i>	-493.29	
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1)	4,179.60	274.05
		<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)				
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,221.28	178.14
		<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,284.43	178.14
		<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,420.09	191.83
		<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,475.57	205.54
		<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10)	1,510.65	205.54
		<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,616.24	219.24
		<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,687.42	239.80
		<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7)	1,723.50	239.80
		<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1)	2,902.61	274.05
		<i>For Factory Installed Accessory, Deduct</i>	-548.10	
26 29 13 13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1)	4,733.30	411.08
		<i>For Factory Installed Accessory, Deduct</i>	-822.15	
26 29 13 13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1)	10,785.57	616.62
		<i>For Factory Installed Accessory, Deduct</i>	-1,233.22	
26 29 13 13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1)	19,996.23	822.15
		<i>For Factory Installed Accessory, Deduct</i>	-1,644.30	
26 29 13 13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1)	64,408.18	1,507.28
		<i>For Factory Installed Accessory, Deduct</i>	-3,014.55	
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)				
26 29 13 13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13)	1,254.02	164.43
		<i>For Factory Installed Accessory, Deduct</i>	-328.86	
26 29 13 13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15)	1,311.49	178.14
		<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,347.58	178.14
		<i>For Factory Installed Accessory, Deduct</i>	-356.26	
26 29 13 13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,480.24	191.83
		<i>For Factory Installed Accessory, Deduct</i>	-383.67	
26 29 13 13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,537.72	205.54
		<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,573.80	205.54
		<i>For Factory Installed Accessory, Deduct</i>	-411.08	
26 29 13 13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,706.45	219.24
		<i>For Factory Installed Accessory, Deduct</i>	-438.48	
26 29 13 13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,777.63	239.80
		<i>For Factory Installed Accessory, Deduct</i>	-479.59	
26 29 13 13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8)	1,813.71	239.80
		<i>For Factory Installed Accessory, Deduct</i>	-479.59	

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 29 Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0264 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,137.16	274.05
For Factory Installed Accessory, Deduct	-548.10	
26 29 13 13-0265 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,139.25	411.08
For Factory Installed Accessory, Deduct	-822.15	
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,531.31	616.62
For Factory Installed Accessory, Deduct	-1,233.22	
26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,794.32	205.54
For Factory Installed Accessory, Deduct	-411.08	
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,830.40	205.54
For Factory Installed Accessory, Deduct	-411.08	
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,070.31	239.80
For Factory Installed Accessory, Deduct	-479.59	
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,566.16	274.05
For Factory Installed Accessory, Deduct	-548.10	
26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,229.33	205.54
For Factory Installed Accessory, Deduct	-411.08	
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,620.59	219.24
For Factory Installed Accessory, Deduct	-438.48	
26 29 13 13-0275 Magnetic Contactor/Starter Accessories (26 29 13 13-0083)		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	166.85	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	280.01	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	166.85	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	280.01	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	280.01	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	140.56	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	125.70	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	166.85	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	140.56	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	187.43	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	208.00	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	355.45	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0288 EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	377.17	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0289 EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	451.46	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0290 EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	784.08	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0291 EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	784.08	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	50.39	10.28
For Factory Installed Accessory, Deduct	-20.55	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	100.55	13.71
For Factory Installed Accessory, Deduct	-27.40	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	132.56	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	105.13	17.13
For Factory Installed Accessory, Deduct	-34.26	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	58.62	10.28
For Factory Installed Accessory, Deduct	-20.55	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	36.90	10.28
For Factory Installed Accessory, Deduct	-20.55	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0298	EA	1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39) <i>For Factory Installed Accessory, Deduct</i>	181.71 -27.40	13.71
26 29 13 13-0299	EA	2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40) <i>For Factory Installed Accessory, Deduct</i>	312.02 -34.26	17.13
26 29 13 13-0300 Definite Purpose Starters <small>(26 29 13 13)</small>				
26 29 13 13-0301 Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>				
26 29 13 13-0302	EA	Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13) <i>For Factory Installed Accessory, Deduct</i>	626.56 -328.86	164.43
26 29 13 13-0303	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22) <i>For Factory Installed Accessory, Deduct</i>	625.55 -328.86	164.43
26 29 13 13-0304	EA	Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) <i>For Factory Installed Accessory, Deduct</i>	677.01 -356.26	178.14
26 29 13 13-0305	EA	Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32) <i>For Factory Installed Accessory, Deduct</i>	662.64 -328.86	164.43
26 29 13 13-0306	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) <i>For Factory Installed Accessory, Deduct</i>	720.11 -356.26	178.14
26 29 13 13-0307	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42) <i>For Factory Installed Accessory, Deduct</i>	694.72 -328.86	164.43
26 29 13 13-0308	EA	Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) <i>For Factory Installed Accessory, Deduct</i>	811.02 -411.08	205.54
26 29 13 13-0309	EA	Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52) <i>For Factory Installed Accessory, Deduct</i>	894.21 -411.08	205.54
26 29 13 13-0310	EA	Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53) <i>For Factory Installed Accessory, Deduct</i>	1,119.09 -479.59	239.80
26 29 13 13-0311 NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>				
26 29 13 13-0312	EA	NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12) <i>For Factory Installed Accessory, Deduct</i>	634.24 -301.46	150.72
26 29 13 13-0313	EA	NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13) <i>For Factory Installed Accessory, Deduct</i>	685.69 -328.86	164.43
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22) <i>For Factory Installed Accessory, Deduct</i>	683.69 -328.86	164.43
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) <i>For Factory Installed Accessory, Deduct</i>	738.15 -356.26	178.14
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) <i>For Factory Installed Accessory, Deduct</i>	721.78 -328.86	164.43
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) <i>For Factory Installed Accessory, Deduct</i>	780.25 -356.26	178.14
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) <i>For Factory Installed Accessory, Deduct</i>	755.86 -328.86	164.43
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) <i>For Factory Installed Accessory, Deduct</i>	871.16 -411.08	205.54
26 29 13 13-0320	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) <i>For Factory Installed Accessory, Deduct</i>	951.34 -411.08	205.54
26 29 13 13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) <i>For Factory Installed Accessory, Deduct</i>	1,177.22 -479.59	239.80
26 29 13 13-0322 Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>				
26 29 13 13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory Note: Or Hand-Off-Auto Selector Switch Kit <i>For Factory Installed Accessory, Deduct</i>	187.43 -34.26	17.13
26 29 13 13-0324 Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>				
26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>				
26 29 13 13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K)	194.16	68.51



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	396.97	82.22
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	417.02	82.22
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	342.17	75.37
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	389.28	75.37
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	439.07	82.22
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	84.25	34.26
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	91.99	34.26
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	106.00	34.26
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	133.87	34.26
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	7,153.96 726.57	656.77
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	12,371.17 1,327.12	875.69
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	21,450.75 2,422.20	1,039.89
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	51,789.59 6,156.97	1,272.49
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	82,464.80 9,900.88	1,628.24
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,105.55	670.72
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	12,282.74	877.06
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	21,289.34	1,036.60
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	51,379.32	1,266.88
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	81,805.05	1,628.92
26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	171.18	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	188.79	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	321.36	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	174.60	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	251.06	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	125.53	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	409.73	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,646.98	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,590.76	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	562.38	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	465.99	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,176.73	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	3,980.97	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,467.91	
26 29 13 13-0395 Factory Modifications Addition (26 29 13 13-0365)		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	365.57	

26 Electrical
26 20 Low-Voltage Electrical Distribution
 26 29 Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....365.57	365.57	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....365.57	365.57	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....365.57	365.57	
26 29 13 13-0400 Combination Starters Non-Reversing (26 29 13 13)		
26 29 13 13-0401 240-600 Volt, 3-Pole (26 29 13 13-0400)		
26 29 13 13-0402 NEMA 1 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....1,768.76 For Electronic Overloads, Add 215.71	1,768.76 215.71	314.71
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....2,189.18 For Electronic Overloads, Add 227.56	2,189.18 227.56	492.57
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....3,036.55 For Electronic Overloads, Add 360.30	3,036.55 360.30	574.68
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....4,581.68 For Electronic Overloads, Add 599.72	4,581.68 599.72	711.50
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....8,368.68 For Electronic Overloads, Add 1,156.76	8,368.68 1,156.76	1,135.66
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....16,519.96 For Electronic Overloads, Add 2,597.19	16,519.96 2,597.19	1,423.00
26 29 13 13-0409 NEMA 1 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....2,217.90 For Electronic Overloads, Add 301.04	2,217.90 301.04	314.71
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....2,638.32 For Electronic Overloads, Add 312.90	2,638.32 312.90	492.57
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....3,473.21 For Electronic Overloads, Add 443.27	3,473.21 443.27	574.68
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....4,818.72 For Electronic Overloads, Add 644.75	4,818.72 644.75	711.50
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....9,728.55 For Electronic Overloads, Add 1,415.14	9,728.55 1,415.14	1,135.66
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....20,125.48 For Electronic Overloads, Add 3,282.23	20,125.48 3,282.23	1,423.00
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....204.53	204.53	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....480.40	480.40	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt .....331.55	331.55	
26 29 13 13-0420 NEMA 4 With Disconnect Switch (26 29 13 13-0401)		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....3,177.60 For Electronic Overloads, Add 443.27	3,177.60 443.27	410.48
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....3,535.59 For Electronic Overloads, Add 455.12	3,535.59 455.12	574.68
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....5,009.68 For Electronic Overloads, Add 711.12	5,009.68 711.12	629.40
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....7,895.47 For Electronic Overloads, Add 1,211.28	7,895.47 1,211.28	766.23
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....12,485.71 For Electronic Overloads, Add 1,939.00	12,485.71 1,939.00	1,135.66
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase .....27,024.64 For Electronic Overloads, Add 4,593.08	27,024.64 4,593.08	1,423.00
26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....3,626.73 For Electronic Overloads, Add 528.60	3,626.73 528.60	410.48
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....3,984.72 For Electronic Overloads, Add 540.46	3,984.72 540.46	574.68
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....5,446.34 For Electronic Overloads, Add 794.09	5,446.34 794.09	629.40
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....8,132.51 For Electronic Overloads, Add 1,256.32	8,132.51 1,256.32	766.23
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....13,845.58 For Electronic Overloads, Add 2,197.37	13,845.58 2,197.37	1,135.66
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase .....25,614.87 For Electronic Overloads, Add 4,325.22	25,614.87 4,325.22	1,423.00
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt .....204.56	204.56	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt .....480.40	480.40	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt331.55	331.55	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0438 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,825.53	316.75
For Electronic Overloads, Add	226.49	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,249.07	495.72
For Electronic Overloads, Add	238.94	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,131.37	570.16
For Electronic Overloads, Add	378.32	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,739.49	712.60
For Electronic Overloads, Add	629.70	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,673.08	1,140.31
For Electronic Overloads, Add	1,214.60	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	17,203.41	1,425.19
For Electronic Overloads, Add	2,727.04	
26 29 13 13-0445 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,361.82	316.75
For Electronic Overloads, Add	328.39	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,787.91	495.72
For Electronic Overloads, Add	341.32	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,685.13	570.16
For Electronic Overloads, Add	483.53	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,126.97	712.60
For Electronic Overloads, Add	703.32	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,405.11	1,140.31
For Electronic Overloads, Add	1,543.69	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	21,694.70	1,425.19
For Electronic Overloads, Add	3,580.39	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	202.85	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	476.40	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	328.79	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,108.50	656.77
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,562.25	875.69
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,118.24	1,204.08
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,049.68	1,641.93
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	13,587.14	2,298.69
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,216.37	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,197.53	410.48
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,583.73	574.68
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,679.83	629.40
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,518.66	766.23
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	10,654.65	1,135.66
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,434.50	410.48
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,836.70	574.68
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,975.95	629.40
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,110.97	766.23
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,455.64	1,135.66
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,335.33	422.39
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	2,730.77	570.16
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	3,925.59	633.51
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	5,925.91	760.21
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase	11,507.62	1,140.31
26 29 13 13-0486 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0467)</small>		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0487	EA		Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,596.44	422.39
26 29 13 13-0488	EA		Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,009.49	570.16
26 29 13 13-0489	EA		Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,251.89	633.51
26 29 13 13-0490	EA		Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,476.70	760.21
26 29 13 13-0491	EA		Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,390.18	1,140.31
26 29 13 13-0492			NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493	EA		Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,003.33	875.69
26 29 13 13-0494	EA		Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,416.18	1,094.61
26 29 13 13-0495	EA		Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	7,748.01	1,423.00
26 29 13 13-0496	EA		Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,221.57	1,860.84
26 29 13 13-0497	EA		Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	22,078.98	2,517.62
26 29 13 13-0498			Solid State Motor Controllers <small>(26 29 13 13)</small>		
26 29 13 13-0499			Adjustable Voltage Drives, DC Motors <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500	EA		0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,719.74	246.29
26 29 13 13-0501	EA		0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,051.34	246.29
26 29 13 13-0502			Removal And Reinstallation Of Motor Starters <small>(26 29 13 13)</small>		
			Note: Includes storage and cleaning.		
26 29 13 13-0503	EA		Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	977.33	
26 29 13 13-0504			Auxiliary Devices <small>(26 29 13 13)</small>		
26 29 13 13-0505	EA		Normally Open, Auxiliary Contact	531.83	136.83
26 29 13 13-0506	EA		Normally Closed, Auxiliary Contact.....	531.83	136.83
26 29 13 13-0507	EA		Pilot Light Kit.....	557.89	136.83
26 29 33			Controllers for Fire Pump Drivers <small>(26 29)</small>		
26 29 33 13			Full-Service Controllers for Fire Pump Electric-Motor Drivers <small>(26 29 33)</small>		
26 29 33 13-0001			Electric Controllers For Fire Pumps <small>(26 29 33 13)</small>		
26 29 33 13-0002			Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller <small>(26 29 33 13-0001)</small>		
26 29 33 13-0003	EA		30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	27,514.56	287.51
26 29 33 13-0004	EA		40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	31,149.93	319.44
26 29 33 13-0005	EA		50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	32,661.90	351.39
26 29 33 13-0006	EA		75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	37,239.79	383.34
26 29 33 13-0007	EA		150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	39,353.73	447.23
26 29 33 13-0008	EA		175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	41,956.57	575.01
26 29 33 13-0009	EA		200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	45,478.88	638.90
26 29 33 13-0010	EA		250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	52,013.48	728.34
26 29 33 13-0011	EA		300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	62,673.19	785.84
26 29 33 13-0012	EA		350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	73,651.79	894.45
26 29 33 13-0013	EA		400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	87,863.24	958.34
26 29 33 13-0014	EA		500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch	99,185.74	1,022.23
26 29 33 19			Controllers for Fire Pump Diesel Engine Drivers <small>(26 29 33)</small>		
			See CSI section 26 29 33 13-0000 for controllers for fire pump diesel engine drivers.		
26 30			Facility Electrical Power Generating and Storing Equipment <small>(26)</small>		
26 31			Photovoltaic Collectors <small>(26 30)</small>		
26 31 00 00-0002			Rigid Photovoltaic Modules <small>(26 31)</small>		
26 31 00 00-0003			Sanyo Rigid Photovoltaic Modules <small>(26 31 00 00-0002)</small>		
26 31 00 00-0004	EA		205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	1,830.89 -157.09	129.98
			For >50, Deduct		
26 31 00 00-0005	EA		210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	1,916.04 -165.61	129.98
			For >50, Deduct		
26 31 00 00-0006	EA		215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	1,797.48 -153.75	129.98
			For >50, Deduct		
26 31 00 00-0007			Sharp Rigid Photovoltaic Modules <small>(26 31 00 00-0002)</small>		
26 31 00 00-0008	EA		224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,447.45 -118.75	129.98
			For >50, Deduct		
26 31 00 00-0009	EA		230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3)	1,637.52 -137.76	129.98
			For >50, Deduct		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0010 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1)	1,667.63	129.98
<i>For >50, Deduct</i>	-140.77	
26 31 00 00-0011 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1)	1,573.54	129.98
<i>For >50, Deduct</i>	-131.36	
26 31 00 00-0012 BP Solar Rigid Photovoltaic Modules <small>(26 31 00 00-0002)</small>		
Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0013 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)	747.29	129.98
<i>For >50, Deduct</i>	-48.73	
26 31 00 00-0014 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)	907.25	129.98
<i>For >50, Deduct</i>	-64.73	
26 31 00 00-0015 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J)	971.23	129.98
<i>For >50, Deduct</i>	-71.13	
26 31 00 00-0016 Photovoltaic Inverters <small>(26 31)</small>		
26 31 00 00-0017 Fronius Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0018 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	4,274.75	136.83
26 31 00 00-0019 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	5,616.45	136.83
26 31 00 00-0020 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	5,924.71	136.83
26 31 00 00-0021 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	6,616.31	136.83
26 31 00 00-0022 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	10,436.32	136.83
26 31 00 00-0023 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	12,120.22	136.83
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	9,952.75	273.66
26 31 00 00-0025 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	12,559.38	273.66
26 31 00 00-0026 EA Inverter Display Stand (Fronius 4,045,894)	403.50	68.41
26 31 00 00-0027 SMA Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0028 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22)	3,196.20	136.83
26 31 00 00-0029 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22)	3,822.62	136.83
26 31 00 00-0030 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22)	4,406.41	136.83
26 31 00 00-0031 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22)	4,852.09	136.83
26 31 00 00-0032 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12)	4,701.96	136.83
26 31 00 00-0033 PVPowered Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0034 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100)	3,934.20	136.83
26 31 00 00-0035 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000)	4,111.44	136.83
26 31 00 00-0036 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500)	4,535.30	136.83
26 31 00 00-0037 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500)	5,382.04	171.03
26 31 00 00-0038 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600)	6,560.17	205.24
26 31 00 00-0039 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800)	6,614.13	205.24
26 31 00 00-0040 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200)	6,973.23	205.24
26 31 00 00-0041 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	82,447.72	1,094.61
26 31 00 00-0042 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	82,556.11	1,094.61
26 31 00 00-0043 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	89,287.53	1,094.61
26 31 00 00-0044 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	82,814.77	1,094.61
26 31 00 00-0045 Solectria Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0046 EA 208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	13,029.77	273.66
26 31 00 00-0047 EA 208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	13,029.77	273.66
26 31 00 00-0048 EA 208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	13,406.75	273.66
26 31 00 00-0049 EA 480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	13,406.75	273.66
26 31 00 00-0050 EA 208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	40,806.69	820.96
26 31 00 00-0051 EA 480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	38,921.75	820.96
26 31 00 00-0052 EA 208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	44,576.56	820.96
26 31 00 00-0053 EA 480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	43,529.37	820.96
26 31 00 00-0054 EA 208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	47,299.24	820.96
26 31 00 00-0055 EA 480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	45,204.87	820.96
26 31 00 00-0056 EA 208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	49,940.91	1,094.61
26 31 00 00-0057 EA 480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	47,637.10	1,094.61
26 31 00 00-0058 EA 208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	51,825.85	1,094.61
26 31 00 00-0059 EA 480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	49,103.16	1,094.61
26 31 00 00-0060 Xantrex Photovoltaic Inverters <small>(26 31 00 00-0016)</small>		
26 31 00 00-0061 EA 0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	556.29	34.21
26 31 00 00-0062 EA 1 KW Photovoltaic Inverter (Xantrex 806-1210)	604.75	34.21
26 31 00 00-0063 EA 2 KW Photovoltaic Inverter (Xantrex 806-1220)	960.88	34.21
26 31 00 00-0064 Photovoltaic DC-DC Converters <small>(26 31)</small>		
26 31 00 00-0065 EA 15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	343.50	51.31
Note: Hazardous locations.		
26 31 00 00-0066 EA 20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	238.12	51.31
26 31 00 00-0067 EA 60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	614.50	51.31

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 31 Photovoltaic Collectors



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST
DEMOLITION UNIT COST

26 31 00 00-0068	Photovoltaic Combiner Boxes <small>(26 31)</small>		
26 31 00 00-0069	Midnight Solar Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>		
26 31 00 00-0070	EA 3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3).....	451.36	136.83
26 31 00 00-0071	EA 6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6).....	441.60	136.83
26 31 00 00-0072	EA 12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12).....	696.05	205.24
26 31 00 00-0073	EA 6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	699.47	205.24
26 31 00 00-0074	EA 16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16).....	1,016.04	205.24
26 31 00 00-0075	SMA Photovoltaic Combiner Boxes <small>(26 31 00 00-0068)</small>		
26 31 00 00-0076	EA 6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	911.99	136.83
26 31 00 00-0077	EA 12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12).....	1,078.30	136.83
26 31 00 00-0078	EA 28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28).....	2,093.03	273.66
26 31 00 00-0079	EA 52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52).....	4,625.27	273.66
26 31 00 00-0080	EA 4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	821.98	136.83
26 31 00 00-0081	Photovoltaic Charge Controller <small>(26 31)</small>		
26 31 00 00-0082	EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	279.52	51.31
26 31 00 00-0083	EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	364.20	51.31
26 31 00 00-0084	EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	420.66	51.31
26 31 00 00-0085	EA Remote Digital Meter For Xantrex C-35, 40 And 60.....	328.45	51.31
26 31 00 00-0086	EA MPPT Charge Controller (Xantrex XW SCC).....	1,081.45	68.41
26 31 00 00-0087	Photovoltaic Batteries <small>(26 31)</small>		
26 31 00 00-0088	Concorde Photovoltaic Batteries <small>(26 31 00 00-0087)</small>		
26 31 00 00-0089	EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T).....	244.15	20.52
26 31 00 00-0090	EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T).....	308.61	27.36
26 31 00 00-0091	EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T).....	333.16	27.36
26 31 00 00-0092	EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T).....	386.75	41.05
26 31 00 00-0093	EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T).....	437.52	41.05
26 31 00 00-0094	EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T).....	518.90	47.89
26 31 00 00-0095	EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T).....	594.90	54.73
26 31 00 00-0096	EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T).....	588.44	54.73
26 31 00 00-0097	EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T).....	1,060.86	65.00
26 31 00 00-0098	EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T).....	1,223.41	68.41
26 31 00 00-0099	Deka Photovoltaic Batteries <small>(26 31 00 00-0087)</small>		
26 31 00 00-0100	EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1).....	262.35	34.26
26 31 00 00-0101	EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF).....	354.56	34.26
26 31 00 00-0102	EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24).....	514.52	34.26
26 31 00 00-0103	EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	586.03	34.26
26 31 00 00-0104	EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	587.91	34.26
26 31 00 00-0105	EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D).....	1,122.37	34.26
26 31 00 00-0106	EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D).....	1,295.51	34.26
26 31 00 00-0107	Battery Enclosures <small>(26 31 00 00-0087)</small>		
26 31 00 00-0108	EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	294.24	34.21
26 31 00 00-0109	EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	1,372.67	34.26
26 31 00 00-0110	EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	1,291.75	34.26
26 31 00 00-0111	EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	1,715.17	34.26
26 31 00 00-0112	EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	774.22	34.26
26 31 00 00-0113	EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	1,796.09	34.26
26 31 00 00-0114	Photovoltaic System Monitoring <small>(26 31)</small>		
26 31 00 00-0115	EA Solar Inverter Monitor (Xantrex 864-0203).....	618.97	68.41
26 31 00 00-0116	EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox)	1,224.37	34.21
26 31 00 00-0117	EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox).....	1,025.88	34.21
26 31 00 00-0118	EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA).....	203.57	34.21
26 31 00 00-0119	EA Wind Sensor Accessory For Sunny SensorBox (SMA).....	494.92	68.41
26 31 00 00-0120	EA Sunny Boy Control with RS485 (SMA).....	1,204.61	34.21
26 31 00 00-0121	EA RS 485 Module (SMA).....	287.45	34.21
26 31 00 00-0122	EA RS 232 Module (SMA).....	294.24	34.21
26 31 00 00-0123	EA Wireless Monitor with Bluetooth (SMA Sunny Beam).....	554.06	
26 31 00 00-0124	EA Bluetooth Piggy-Back Computer Card (SMA).....	297.90	34.21
26 31 00 00-0125	EA RS485-N Communication Computer Card (SMA).....	296.01	34.21
26 31 00 00-0126	EA Bluetooth Repeater (SMA).....	543.52	34.21
26 31 00 00-0127	EA Sunny Boy PC Service Cable (SMA).....	255.17	10.26
26 31 00 00-0128	EA Integrated Revenue Grade Meter, Option (PVPowered).....	4,827.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0129	EA		Data Monitoring Module (PVPowered PVM1010).....	542.41	
26 31 00 00-0130	EA		Wireless IG Personal Display (Fronius 4,240,108).....	562.32	
26 31 00 00-0131	EA		DatCom Power Supply (Fronius 43,0001,2311).....	180.79	
26 31 00 00-0132	EA		Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	329.95	34.21
26 31 00 00-0133	EA		Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	281.78	34.21
26 31 00 00-0134	EA		Datalogger Pro Box (Fronius 4,240,102).....	1,056.94	34.21
26 31 00 00-0135	EA		Datalogger Easy Box (Fronius 4,240,103).....	693.46	34.21
26 31 00 00-0136	EA		Datalogger Interface Box (Fronius 4,240,105).....	1,191.07	34.21
26 31 00 00-0137	EA		Datalogger Web (Fronius 4,240,122).....	2,034.53	34.21
26 31 00 00-0138	EA		Interface Box (Fronius 4,240,109).....	559.03	34.21
26 31 00 00-0139	EA		Interface Card (Fronius 4,240,009,Z).....	403.74	34.21
26 31 00 00-0140	EA		Interface Card Easy (Fronius 4,240,013,Z).....	272.00	34.21
26 31 00 00-0141	EA		Sensor Box (Fronius 4,240,104).....	1,103.12	34.21
26 31 00 00-0142	EA		Ambient Temperature Sensor (Fronius 43,0001,1188).....	137.39	34.21
26 31 00 00-0143	EA		Irradiance Sensor (Fronius 43,0001,1188).....	394.17	34.21
26 31 00 00-0144	EA		Module Temperature Sensor (Fronius 43,0001,1190).....	437.07	34.21
26 31 00 00-0145	EA		Wind Speed Sensor (Fronius 42,0411,0027).....	256.20	68.41
26 31 00 00-0146	Photovoltaic System Accessories <small>(26 31)</small>				
26 31 00 00-0147	EA		Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	835.45	68.41
26 31 00 00-0148	EA		Line Communication Filter (Enphase LCF).....	1,814.94	136.83
26 31 00 00-0149	EA		15 Meter RS 485 Communication Cable (SMA).....	139.08	10.26
26 31 00 00-0150	EA		15 Meter RS 232 Communication Cable (SMA).....	206.83	10.26
26 31 00 00-0151	EA		24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	33.38	3.39
26 31 00 00-0152	EA		36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	35.65	3.39
26 31 00 00-0153	EA		48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	36.94	3.39
26 31 00 00-0154	EA		72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	40.49	3.39
26 31 00 00-0155	EA		120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	45.83	3.39
26 31 00 00-0156	EA		240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	73.87	6.77
26 31 00 00-0157	EA		360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	90.43	6.77
26 31 00 00-0158	EA		420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	119.71	10.16
26 31 00 00-0159	EA		36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	41.38	3.39
26 31 00 00-0160	EA		120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	56.50	3.39
26 31 00 00-0161	EA		240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	84.54	6.77
26 31 00 00-0162	EA		360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	111.22	6.77
26 31 00 00-0163	EA		600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	182.43	13.55
26 31 00 00-0164	EA		1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	189.96	13.55
26 31 00 00-0165	EA		Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	3,387.85	369.43
Note: Tamper proof enclosure.					
26 31 00 00-0166	Photovoltaic Mounting Systems <small>(26 31)</small>				
26 31 00 00-0167	LF		Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	12.69	3.42
26 31 00 00-0168	EA		Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	40.11	17.10
26 31 00 00-0169	EA		Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	48.49	17.10
26 31 00 00-0170	EA		8" x 3/8" Hanger Bolt (UNIRAC 310046).....	24.49	6.84
Note: Supports mounting rail above tile or metal roof.					
26 31 00 00-0171	EA		Mounting Rail Grounding Clip (UNIRAC 980006).....	12.60	5.13
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.					
26 31 00 00-0172	EA		Mounting Rail Grounding Lugs (UNIRAC 980012).....	24.88	6.84
Note: Two grounding lugs for each rail splice and one additional lug for each rail.					
26 31 00 00-0173	EA		Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002).....	6.90	2.28
Note: Four for each row of modules you plan to mount.					
26 31 00 00-0174	EA		Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	7.17	2.28
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.					
26 31 00 00-0175	EA		Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	18.38	6.84
26 31 00 00-0176	EA		12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	106.09	34.21
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.					
26 31 00 00-0177	EA		30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	115.57	34.21
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.					
26 31 00 00-0178	EA		44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	123.21	34.21
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.					
26 31 00 00-0179	EA		12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	156.37	51.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.					
26 31 00 00-0180	EA		44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	184.82	51.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.					
26 31 00 00-0181	EA		72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	210.64	51.31
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.					
26 31 00 00-0182	EA		18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	238.00	68.41
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.					
26 31 00 00-0183	EA		64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	305.98	68.41
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.					

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 31 Photovoltaic Collectors



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0184	EA		104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....433.40 Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	433.40	102.62
26 31 00 00-0185	EA		Ballasted Photovoltaic Module Frame (UNIRAC 310351).....212.22 Note: Excludes ballast.	212.22	
26 31 00 00-0186	EA		Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....390.23 Note: Excludes ballast.	390.23	
26 31 00 00-0187	EA		3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....87.14	87.14	34.21
26 31 00 00-0188	EA		4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....88.01	88.01	34.21
26 31 00 00-0189	EA		6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....88.81	88.81	34.21
26 31 00 00-0190	EA		7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....90.80	90.80	34.21
26 31 00 00-0191	EA		3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....81.85	81.85	34.21
26 31 00 00-0192	EA		4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....82.86	82.86	34.21
26 31 00 00-0193	EA		6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....85.80	85.80	34.21
26 31 00 00-0194	EA		7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....84.96	84.96	34.21
26 31 00 00-0195	EA		3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....160.06	160.06	51.31
26 31 00 00-0196	EA		4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....160.66	160.66	51.31
26 31 00 00-0197	EA		7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....162.45	162.45	51.31
26 31 00 00-0198	EA		Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....160.58	160.58	51.31
26 31 00 00-0199	EA		Photovoltaic Module Standoff Flashing (UNIRAC 990103).....30.24	30.24	6.84
26 31 00 00-0200	EA		Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....21.09	21.09	6.84
26 31 00 00-0201	EA		1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....38.65	38.65	10.26
26 31 00 00-0202	EA		3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....40.02	40.02	10.26
26 31 00 00-0203	EA		Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100).....10.88 Note: Mid or end clamp.	10.88	2.28
26 31 00 00-0204	EA		Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....47.85	47.85	6.84
26 31 00 00-0205	EA		Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....2.86	2.86	

26 32 Packaged Generator Assemblies (26.30)

26 32 13 Engine Generators (26.32)

See CSI section 23 13 23 13-0001 for fuel storage tanks.

26 32 13 13 Diesel-Engine-Driven Generator Sets (26.32 13)

See CSI section 01 22 23 00-0721 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26.32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0700 for loadbank rental, 01 22 23 00-0721 for fuel reimbursement, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002	EA		25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....31,103.15 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	31,103.15	1,151.20
26 32 13 13-0003	EA		35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....33,061.04 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	33,061.04	1,417.42
26 32 13 13-0004	EA		40 KW Diesel Generator Set, 3 Phase (Cummins DSFAB).....34,128.08 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	34,128.08	1,554.13
26 32 13 13-0005	EA		50 KW Diesel Generator Set, 3 Phase (Cummins DSFAC).....39,943.28 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	39,943.28	1,784.37
26 32 13 13-0006	EA		60 KW Diesel Generator Set, 3 Phase (Cummins DSFAD).....43,014.96 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	43,014.96	2,050.59
26 32 13 13-0007	EA		80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....50,463.73 For Weather Resistant Steel Diesel Generator Enclosure, Add 3,992.71 For Quietsite Level 1 Steel Diesel Generator Enclosure, Add 9,395.62 For Quietsite Level 2 Steel Diesel Generator Enclosure, Add 12,527.49 For Weather Resistant Aluminum Diesel Generator Enclosure, Add 10,166.14 For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add 14,746.39 For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add 19,661.85	50,463.73	2,403.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA).....	54,235.01	2,791.67
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB).....	55,638.43	3,309.71
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC).....	61,488.88	3,647.88
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB).....	64,560.62	4,072.40
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC).....	68,539.03	4,460.93
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD).....	73,716.65	4,712.75
For Weather Resistant Steel Diesel Generator Enclosure, Add	6,056.10	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	14,365.09	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	19,153.45	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,043.33	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	15,680.78	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	20,907.71	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA).....	76,762.75	4,907.02
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA).....	83,388.94	5,173.23
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB).....	85,275.68	5,403.47
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG).....	95,849.63	6,043.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH).....	103,077.85	6,619.44
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ).....	116,001.12	7,130.28
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	

26 Electrical
26 30 Facility Electrical Power Generating and Storing Equipment
26 32 Packaged Generator Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK).....	121,906.54	7,597.96
For Weather Resistant Steel Diesel Generator Enclosure, Add	39,275.28	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	43,489.14	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	57,985.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	47,635.02	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	53,159.90	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	70,879.86	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA).....	175,598.96	8,367.83
For Weather Resistant Steel Diesel Generator Enclosure, Add	80,232.19	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	96,618.30	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	128,824.41	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	94,368.69	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	112,558.87	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	150,078.49	
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB).....	200,877.08	9,202.45
For Weather Resistant Steel Diesel Generator Enclosure, Add	80,232.19	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	96,618.30	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	128,824.41	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	94,368.69	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	112,558.87	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	150,078.49	
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC).....	209,660.26	9,403.91
For Weather Resistant Steel Diesel Generator Enclosure, Add	80,232.19	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	96,618.30	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	128,824.41	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	94,368.69	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	112,558.87	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	150,078.49	
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC).....	255,092.45	10,137.81
For Weather Resistant Steel Diesel Generator Enclosure, Add	80,232.19	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	96,618.30	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	128,824.41	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	94,368.69	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	112,558.87	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	150,078.49	
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD).....	285,081.17	10,792.56
For Weather Resistant Steel Diesel Generator Enclosure, Add	80,232.19	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	96,618.30	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	128,824.41	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	94,368.69	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	112,558.87	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	150,078.49	

26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)

26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins) <small>(26 32 13 19)</small>		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0700 for loadbank rental, 01 22 23 00-0721 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA).....	13,348.46	964.13
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB).....	15,069.90	1,151.20
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC).....	17,326.78	1,280.71
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	3,933.11	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	6,525.40	
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA).....	19,599.50	1,417.42
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB).....	21,942.90	1,554.13
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98	



	Electrical	26
	Facility Electrical Power Generating and Storing Equipment	26 30
	Packaged Generator Assemblies	26 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0007	EA	45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC).....	23,752.64	1,676.44	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0008	EA	60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE).....	26,066.04	2,050.59	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0009	EA	70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF).....	27,994.92	2,295.22	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	3,631.43		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	9,395.62		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	12,527.49		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	11,125.20		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0010	EA	85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG).....	36,377.96	2,453.51	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45		
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0011	EA	100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH).....	43,678.39	2,762.90	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45		
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0012	EA	125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA).....	50,128.03	3,309.71	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45		
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0013	EA	150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB).....	59,368.48	3,647.88	
		For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	6,618.50		
		For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	14,365.09		
		For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	19,153.45		
		For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	13,043.33		
		For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	18,672.98		
26 32 13 19-0014	EA	175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA).....	94,900.62	9,703.09	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12		
26 32 13 19-0015	EA	205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB).....	107,565.64	4,381.78	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12		
26 32 13 19-0016	EA	250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC).....	115,737.25	4,907.02	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12		
26 32 13 19-0017	EA	300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA).....	149,105.95	5,403.47	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12		
26 32 13 19-0018	EA	350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB).....	160,140.30	6,043.84	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	35,319.82		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	39,097.90		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	52,130.53		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	38,617.89		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	57,950.12		
26 32 13 19-0019	EA	450 KW Natural Gas Generator Set, 3 Phase (Cummins GFJA).....	224,164.50	7,130.28	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	77,122.19		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	81,941.75		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	109,255.67		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	87,597.46		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	123,805.59		
26 32 13 19-0020	EA	500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB).....	286,058.11	7,597.96	
		For Weather Resistant Steel Natural Gas Generator Enclosure, Add	77,122.19		
		For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	81,941.75		
		For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	109,255.67		
		For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	87,597.46		
		For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	123,805.59		

26 Electrical

26 30 Facility Electrical Power Generating and Storing Equipment

26 32 Packaged Generator Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	319,777.93 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,008.08
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	363,785.85 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,367.83
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	380,317.07 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	8,684.41
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quiesite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	402,280.02 77,122.19 81,941.75 109,255.67 87,597.46 123,805.59	9,281.60
26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets (26 32 13 19)		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	4,576.89	630.29
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	5,728.13	700.32
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,556.02	753.63
26 32 29 Rotary Converters (26 32)		
26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output (26 32 29)		
26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	8,036.36	273.66
26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,759.03	273.66
26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,883.64	273.66
26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,983.92	273.66
26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,431.99	342.07
26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	15,615.63	342.07
26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,343.50	342.07
26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,921.77	451.52
26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	22,116.12	451.52
26 32 29 00-0011 60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output (26 32 29)		
26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	9,283.48	273.66
26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,043.95	273.66
26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,612.30	273.66
26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,958.47	273.66
26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,693.89	342.07
26 32 29 00-0017 EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,142.82	342.07
26 32 29 00-0018 EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,670.02	342.07
26 32 29 00-0019 EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,843.54	451.52
26 32 29 00-0020 EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,037.38	451.52
26 32 29 00-0021 460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	25,152.57	5,036.53
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	28,076.52	5,036.53
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	32,026.87	7,195.04
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	37,149.88	7,195.04
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	41,983.84	7,195.04
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	49,572.53	10,792.56
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	60,411.90	10,792.56
26 32 29 00-0029 4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC (26 32 29)		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	86,372.25	14,390.08
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	94,194.42	14,390.08
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	113,213.66	18,707.10
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	128,839.18	22,736.33
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	152,240.24	22,736.33
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	215,432.22	33,960.59
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	223,627.04	33,960.59
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	256,991.17	39,572.73



Electrical	26	26
Facility Electrical Power Generating and Storing Equipment	26 30	
Battery Equipment	26 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 33 Battery Equipment ^(26 30)

26 33 13 Batteries ^(26 33)

26 33 13 00-0001 Standby Batteries ^(26 33 13)

26 33 13 00-0002	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	984.52	34.26
26 33 13 00-0003	EA	12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	1,062.15	34.26
26 33 13 00-0004	EA	725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	281.64	34.26
26 33 13 00-0005	EA	810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	258.20	34.26
26 33 13 00-0006	EA	1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	425.34	34.26
26 33 13 00-0007	EA	1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	490.11	34.26

26 33 43 Battery Chargers ^(26 33)

26 33 43 00-0001 Solid State Chargers, Single Phase ^(26 33 43)

Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.

26 33 43 00-0002	EA	Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,132.53	781.35
26 33 43 00-0003	EA	Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,624.71	781.35
26 33 43 00-0004	EA	Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,984.72	781.35
26 33 43 00-0005	EA	Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,232.09	925.11

26 33 53 Static Uninterruptible Power Supply ^(26 33)

26 33 53 00-0001 Single Phase, Uninterruptible Power Supply Systems (UPS) ^(26 33 53)

26 33 53 00-0002 Single Phase, Uninterruptible Power Supply Systems (UPS) ^(26 33 53 00-0001)

26 33 53 00-0003 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0004	EA	0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120)	1,103.66	135.46
Note: Includes 12 minutes of battery backup at full load.				
26 33 53 00-0005	EA	0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120)	1,315.74	158.04
Note: Includes 6 minutes of battery backup at full load.				
26 33 53 00-0006	EA	1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120)	1,612.00	180.61
Note: Includes 5 minutes of battery backup at full load.				
26 33 53 00-0007	EA	1.5 KVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120)	1,957.21	203.19
Note: Includes 5 minutes of battery backup at full load.				
26 33 53 00-0008	EA	2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120)	2,487.41	225.76
Note: Includes 4 minutes of battery backup at full load.				
26 33 53 00-0009	EA	3 KVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120)	3,942.30	270.92
Note: Includes 4 minutes of battery backup at full load.				

26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0011	EA	3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208)	3,873.15	270.92
Note: Includes 4 minutes of battery backup at full load.				

26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)

Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.

26 33 53 00-0013	EA	5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208)	5,935.71	361.23
Note: Includes 5 minutes of battery backup at full load.				
26 33 53 00-0014	EA	6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208)	6,498.97	406.38
Note: Includes 4 minutes of battery backup at full load.				
26 33 53 00-0015	EA	8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208)	9,641.45	496.68
Note: Includes 7 minutes of battery backup at full load.				
26 33 53 00-0016	EA	10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208)	11,062.93	541.83
Note: Includes 4-1/2 minutes of battery backup at full load.				

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0017	230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) <small>(26 33 53 00-0002)</small> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.	
26 33 53 00-0018 EA	0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230).....	1,315.74 158.04
	Note: Includes 11 minutes of battery backup at full load.	
26 33 53 00-0019 EA	1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230).....	1,612.00 180.61
	Note: Includes 6 minutes of battery backup at full load.	
26 33 53 00-0020 EA	1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230).....	1,977.64 203.19
	Note: Includes 4 minutes of battery backup at full load.	
26 33 53 00-0021 EA	2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230).....	2,492.34 225.76
	Note: Includes 4 minutes of battery backup at full load.	
26 33 53 00-0022 EA	3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230).....	3,957.65 270.92
	Note: Includes 4 minutes of battery backup at full load.	
26 33 53 00-0023 EA	5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230).....	5,704.79 361.23
	Note: Includes 9 minutes of battery backup at full load.	
26 33 53 00-0024 EA	6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230).....	6,979.07 406.38
	Note: Includes 6 minutes of battery backup at full load.	
26 33 53 00-0025 EA	10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230).....	10,732.82 541.83
	Note: Includes 3 minutes of battery backup at full load.	
26 33 53 00-0026	Optional Accessories For Single Phase, Uninterruptible Power Supply Systems <small>(26 33 53 00-0001)</small>	
26 33 53 00-0027 EA	External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT).....	688.86 41.05
	Note: Rack mount or tower configuration.	
26 33 53 00-0028 EA	External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT).....	896.58 41.05
	Note: Rack mount or tower configuration.	
26 33 53 00-0029 EA	External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT).....	873.46 41.05
	Note: Rack mount or tower configuration.	
26 33 53 00-0030 EA	External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT).....	599.38 41.05
	Note: Rack mount or tower configuration.	
26 33 53 00-0031 EA	Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	951.73 135.46
26 33 53 00-0032 EA	Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	1,088.56 180.61
26 33 53 00-0033	Three Phase, Uninterruptible Power Supply Systems (UPS) <small>(26 33 53)</small>	
26 33 53 00-0034	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery <small>(26 33 53 00-0033)</small> Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.	
26 33 53 00-0035 EA	10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	34,049.85 541.83
26 33 53 00-0036 EA	15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	37,806.63 722.44
26 33 53 00-0037 EA	20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	42,346.22 903.06
26 33 53 00-0038 EA	30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	46,024.73 1,083.67
26 33 53 00-0039 EA	40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	55,339.39 1,264.29
26 33 53 00-0040	208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery <small>(26 33 53 00-0033)</small> Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.	
26 33 53 00-0041 EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	75,356.74 2,155.02
26 33 53 00-0042 EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	82,384.85 2,668.12
26 33 53 00-0043 EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,268.00 3,112.82
26 33 53 00-0044 EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	112,226.66 3,523.29
26 33 53 00-0045 EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	116,804.41 3,933.77
26 33 53 00-0046 EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	121,324.90 4,344.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0047 EA 180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	126,784.77	4,754.74
26 33 53 00-0048 EA 200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	132,244.64	5,165.21
26 33 53 00-0049 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033)		
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050 EA 50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	70,254.71	1,778.75
26 33 53 00-0051 EA 100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	91,737.68	3,126.49
26 33 53 00-0052 EA 150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	124,765.27	3,612.23
26 33 53 00-0053 EA 200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	146,585.01	3,967.98
26 33 53 00-0054 EA 250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	171,066.26	4,378.46
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)		
26 33 53 00-0056 EA Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	628.80	68.41
26 33 53 00-0057 EA Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	993.24	68.41
26 33 53 00-0058 EA Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	1,970.91	136.83
26 33 53 00-0059 EA Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	6,243.41	547.31
26 33 53 00-0060 EA 12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	519.96	68.41
26 33 53 00-0061 EA 12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	287.98	68.41
26 33 53 00-0062 EA 12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	321.83	68.41
26 33 53 00-0063 EA 12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	355.68	68.41
26 33 53 00-0064 EA 12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	416.61	68.41
26 33 53 00-0065 EA 12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	436.92	68.41
26 33 53 00-0066 EA 12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	541.86	68.41
26 33 53 00-0067 EA 12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	567.25	68.41
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment (26 33 53)		
26 33 53 00-0069 EA Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	5,069.81	125.01
26 33 53 00-0070 EA Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	6,150.84	250.03
26 33 53 00-0071 EA 1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	29.96	7.50
26 33 53 00-0072 EA 2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	51.99	9.38
26 33 53 00-0073 EA 2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	93.54	9.38
26 33 53 00-0074 EA 3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	136.36	12.50
26 33 53 00-0075 EA 3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	191.21	12.50
26 33 53 00-0076 EA Uninterrupted Power Supply Remote Status Panel.....	3,490.92	125.01
26 33 53 00-0077 EA Uninterrupted Power Supply Remote Contact Board.....	1,184.70	93.76
26 35 Power Filters and Conditioners (26 30)		
26 35 33 Power Factor Correction Equipment (26 35)		
26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)		
26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)		
26 35 33 16-0002 EA Power Factor Correction Capacitors, 2.0 KVAC.....	735.06	
26 35 33 16-0003 EA Power Factor Correction Capacitors, 3.0 KVAC.....	814.10	
26 35 33 16-0004 EA Power Factor Correction Capacitors, 4.0 KVAC.....	893.14	
26 35 33 16-0005 EA Power Factor Correction Capacitors, 5.0 KVAC.....	969.02	
26 35 33 16-0006 EA Power Factor Correction Capacitors, 7.5 KVAC.....	1,190.33	
26 35 33 16-0007 EA Power Factor Correction Capacitors, 10.0 KVAC.....	1,454.32	
26 35 33 16-0008 EA Power Factor Correction Capacitors, 15.0 KVAC.....	2,246.29	
26 35 33 16-0009 EA Power Factor Correction Capacitors, 20.0 KVAC.....	2,728.43	
26 35 33 16-0010 EA Power Factor Correction Capacitors, 25.0 KVAC.....	3,525.14	
26 35 33 16-0011 EA Power Factor Correction Capacitors, 30.0 KVAC.....	4,008.86	
26 35 33 16-0012 EA Power Factor Correction Capacitors, 50.0 KVAC.....	7,034.47	
26 35 33 16-0013 EA Power Factor Correction Capacitors, 75.0 KVAC.....	10,577.00	
26 35 33 16-0014 EA Power Factor Correction Capacitors, 100.0 KVAC.....	14,103.72	
26 35 33 16-0015 EA Power Factor Correction Capacitors, Fuse Kit.....	654.44	

26 35 43 Static-Frequency Converters (26 35)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)		
26 35 43 00-0002 EA 750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	648.33	136.83
26 35 43 00-0003 EA 2 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,102.60	164.19
26 35 43 00-0004 EA 3 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,267.86	218.92
26 35 43 00-0005 EA 5 KW Output Rotary Phase Converter With NEMA 1 Enclosure	1,732.31	273.66
26 35 43 00-0006 EA 7 KW Output Rotary Phase Converter With NEMA 1 Enclosure	2,374.49	355.75
26 35 43 00-0007 EA 11 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,056.49	437.85
26 35 43 00-0008 EA 15 KW Output Rotary Phase Converter With NEMA 1 Enclosure	3,818.17	519.94
26 35 43 00-0009 EA 21 KW Output Rotary Phase Converter With NEMA 1 Enclosure	4,632.14	588.35
26 35 43 00-0010 EA 29 KW Output Rotary Phase Converter With NEMA 1 Enclosure	5,396.24	711.50
26 35 43 00-0011 EA 36 KW Output Rotary Phase Converter With NEMA 1 Enclosure	6,171.59	800.44
26 35 43 00-0012 EA 44 KW Output Rotary Phase Converter With NEMA 1 Enclosure	6,946.94	889.37
26 35 43 00-0013 EA 55 KW Output Rotary Phase Converter With NEMA 1 Enclosure	8,610.92	1,074.09
26 35 43 00-0014 EA 74 KW Output Rotary Phase Converter With NEMA 1 Enclosure	11,139.95	1,293.01
26 35 43 00-0015 EA 87 KW Output Rotary Phase Converter With NEMA 1 Enclosure	14,090.85	1,573.51
26 35 43 00-0016 EA 110 KW Output Rotary Phase Converter With NEMA 1 Enclosure	16,138.10	1,840.32
26 35 43 00-0017 EA 125 KW Output Rotary Phase Converter With NEMA 1 Enclosure	20,625.15	2,052.40
26 35 43 00-0018 EA 165 KW Output Rotary Phase Converter With NEMA 1 Enclosure	31,130.46	2,326.05
26 35 43 00-0019 EA 220 KW Output Rotary Phase Converter With NEMA 1 Enclosure	46,017.30	2,599.71
26 35 53 Voltage Regulators (26 35)		
26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)		
Note: For diesel motor generator sets mounted in switchgear cabinet.		
26 35 53 00-0002 EA 50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,057.11	2,175.55
26 35 53 00-0003 EA 75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	8,189.23	2,736.54
26 35 53 00-0004 EA 100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	9,231.72	3,256.48
26 36 Transfer Switches (26 36)		
26 36 13 Manual Transfer Switches (26 36)		
26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)		
26 36 13 00-0002 EA 30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,372.67	239.45
26 36 13 00-0003 EA 60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt	1,605.56	297.46
26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 13)		
26 36 13 00-0005 EA 40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40)	2,805.58	350.16
	For NEMA 3R Enclosure, Add	828.47
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0006 EA 70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70)	3,127.94	420.19
	For NEMA 3R Enclosure, Add	828.47
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0007 EA 125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125)	3,558.40	490.22
	For NEMA 3R Enclosure, Add	828.47
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0008 EA 150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150)	4,388.93	560.26
	For NEMA 3R Enclosure, Add	974.67
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0009 EA 225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225)	5,394.24	630.29
	For NEMA 3R Enclosure, Add	974.67
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0010 EA 260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260)	6,059.71	700.32
	For NEMA 3R Enclosure, Add	974.67
	For NEMA 12 Enclosure, Add	779.73
26 36 13 00-0011 EA 300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300)	6,735.03	770.35
	For NEMA 3R Enclosure, Add	1,150.11
	For NEMA 12 Enclosure, Add	974.67
26 36 13 00-0012 EA 400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400)	7,868.75	840.39
	For NEMA 3R Enclosure, Add	1,150.11
	For NEMA 12 Enclosure, Add	974.67
26 36 13 00-0013 EA 600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600)	10,370.06	1,050.48
	For NEMA 3R Enclosure, Add	1,150.11
	For NEMA 12 Enclosure, Add	974.67
26 36 13 00-0014 EA 800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800)	11,714.20	1,260.58
	For NEMA 3R Enclosure, Add	1,413.26
	For NEMA 12 Enclosure, Add	1,364.53
26 36 13 00-0015 EA 1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000)	15,576.69	1,726.81
	For NEMA 3R Enclosure, Add	1,413.26
	For NEMA 12 Enclosure, Add	1,364.53
26 36 23 Automatic Transfer Switches (26 36)		
26 36 23 00-0001 Automatic Transfer Switch (26 36 23)		
26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
Note: Programmable, 120/240 volt single phase, 3 wire.		
26 36 23 00-0003 EA 100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	2,639.31	490.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0004	EA		225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	3,568.57	630.29
26 36 23 00-0005	EA		400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	5,575.51	840.39
26 36 23 00-0006	EA		600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	12,198.45	1,050.48
26 36 23 00-0007			Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0008	EA		40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)	4,079.81	350.16
			<i>For NEMA 3R Enclosure, Add</i>	828.47	
			<i>For NEMA 4 Enclosure, Add</i>	877.20	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0009	EA		70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)	4,719.37	420.19
			<i>For NEMA 3R Enclosure, Add</i>	828.47	
			<i>For NEMA 4 Enclosure, Add</i>	877.20	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0010	EA		125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)	5,204.35	490.22
			<i>For NEMA 3R Enclosure, Add</i>	828.47	
			<i>For NEMA 4 Enclosure, Add</i>	877.20	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0011	EA		150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)	6,178.12	560.26
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0012	EA		225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)	7,049.13	630.29
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0013	EA		260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)	7,781.63	700.32
			<i>For NEMA 3R Enclosure, Add</i>	974.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0014	EA		300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)	8,153.12	770.35
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0015	EA		400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)	9,202.84	840.39
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0016	EA		600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)	12,553.95	1,050.48
			<i>For NEMA 3R Enclosure, Add</i>	1,150.11	
			<i>For NEMA 4 Enclosure, Add</i>	1,364.53	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0017	EA		800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)	14,125.95	1,260.58
			<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
			<i>For NEMA 4 Enclosure, Add</i>	1,559.47	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36 23 00-0018	EA		1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	18,395.90	1,726.81
			<i>For NEMA 3R Enclosure, Add</i>	1,413.26	
			<i>For NEMA 4 Enclosure, Add</i>	1,559.47	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36 23 00-0019	EA		1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	23,680.43	1,870.71
			<i>For NEMA 3R Enclosure, Add</i>	3,118.93	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	1,462.00	
26 36 23 00-0020	EA		1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	25,332.80	2,158.51
			<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
			<i>For NEMA 4 Enclosure, Add</i>	6,237.85	
			<i>For NEMA 12 Enclosure, Add</i>	5,068.25	
26 36 23 00-0021	EA		2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	28,953.53	2,446.32
			<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
			<i>For NEMA 4 Enclosure, Add</i>	6,237.85	
			<i>For NEMA 12 Enclosure, Add</i>	5,068.25	
26 36 23 00-0022	EA		3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	35,003.93	3,021.92
			<i>For NEMA 3R Enclosure, Add</i>	5,068.25	
26 36 23 00-0023	EA		4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	59,891.01	3,597.52
			<i>For NEMA 3R Enclosure, Add</i>	23,820.75	
26 36 23 00-0024			Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0025	EA		150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)....	20,813.22	2,661.22
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0026	EA		225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)....	21,738.67	2,801.29
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0027	EA		260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260)....	22,790.91	2,941.35
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	925.94	

26	Electrical
26 30	Facility Electrical Power Generating and Storing Equipment
26 36	Transfer Switches



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0028	EA		300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	25,297.82	3,011.38
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0029	EA		400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	28,995.30	3,081.41
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	925.94	
26 36 23 00-0030	EA		600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	34,569.59	3,221.48
			<i>For NEMA 3R Enclosure, Add</i>	1,705.67	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0031	EA		800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	38,012.51	3,361.54
			<i>For NEMA 3R Enclosure, Add</i>	1,754.40	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	1,072.14	
26 36 23 00-0032	EA		1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	47,608.09	3,921.80
			<i>For NEMA 3R Enclosure, Add</i>	1,754.40	
			<i>For NEMA 4 Enclosure, Add</i>	1,754.40	
			<i>For NEMA 12 Enclosure, Add</i>	1,072.14	
26 36 23 00-0033	EA		1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	61,868.07	4,317.02
			<i>For NEMA 3R Enclosure, Add</i>	7,797.30	
			<i>For NEMA 4 Enclosure, Add</i>	9,746.63	
			<i>For NEMA 12 Enclosure, Add</i>	7,797.30	
26 36 23 00-0034	EA		1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	80,219.37	4,604.83
			<i>For NEMA 3R Enclosure, Add</i>	16,569.26	
			<i>For NEMA 4 Enclosure, Add</i>	16,569.26	
			<i>For NEMA 12 Enclosure, Add</i>	15,438.66	
26 36 23 00-0035	EA		2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	90,993.33	5,036.53
			<i>For NEMA 3R Enclosure, Add</i>	16,569.26	
			<i>For NEMA 4 Enclosure, Add</i>	16,569.26	
			<i>For NEMA 12 Enclosure, Add</i>	15,438.66	
26 36 23 00-0036	EA		3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	144,418.83	5,756.03
			<i>For NEMA 3R Enclosure, Add</i>	20,467.91	
26 36 23 00-0037	EA		4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	156,011.56	6,475.54
			<i>For NEMA 3R Enclosure, Add</i>	20,467.91	
26 36 23 00-0038			Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure <small>(26 36 23 00-0001)</small>		
26 36 23 00-0039	EA		40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	6,538.91	350.16
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0040	EA		70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	7,093.60	420.19
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0041	EA		125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	7,647.38	490.22
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0042	EA		150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	9,168.90	560.26
			<i>For Four Pole Circuit Breaker, Add</i>	2,436.66	
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0043	EA		225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	11,886.02	630.29
			<i>For Four Pole Circuit Breaker, Add</i>	2,436.66	
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0044	EA		250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	12,670.34	700.32
			<i>For Four Pole Circuit Breaker, Add</i>	2,436.66	
			<i>For NEMA 3R Enclosure, Add</i>	487.33	
			<i>For NEMA 12 Enclosure, Add</i>	877.20	
26 36 23 00-0045	EA		300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	13,199.11	770.35
			<i>For Four Pole Circuit Breaker, Add</i>	3,313.86	
			<i>For NEMA 3R Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0046	EA		400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	14,919.91	840.39
			<i>For Four Pole Circuit Breaker, Add</i>	3,313.86	
			<i>For NEMA 3R Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	



Electrical	26
Facility Electrical Power Generating and Storing Equipment	26 30
Transfer Switches	26 36

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0047	EA		600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	18,119.99	1,050.48
			<i>For Four Pole Circuit Breaker, Add</i>	3,313.86	
			<i>For NEMA 3R Enclosure, Add</i>	1,267.06	
			<i>For NEMA 12 Enclosure, Add</i>	974.67	
26 36 23 00-0048	EA		800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	18,965.52	1,260.58
			<i>For Four Pole Circuit Breaker, Add</i>	4,727.12	
			<i>For NEMA 3R Enclosure, Add</i>	2,183.25	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36 23 00-0049	EA		1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000)	22,577.81	1,726.81
			<i>For Four Pole Circuit Breaker, Add</i>	4,727.12	
			<i>For NEMA 3R Enclosure, Add</i>	2,183.25	
			<i>For NEMA 12 Enclosure, Add</i>	1,364.53	
26 36 23 00-0050 Accessories (26 36 23)					
26 36 23 00-0051	EA		Auxiliary Contacts For Automatic Transfer Switch	226.13	
26 36 23 00-0052	EA		Battery Charger For Automatic Transfer Switch	1,851.87	
26 36 23 00-0053	EA		Elevator Relay Signal For Automatic Transfer Switch	672.52	
26 40 Electrical And Cathodic Protection (26)					
26 41 Facility Lightning Protection (26 40)					
26 41 13 Lightning Protection for Structures (26 41)					
26 41 13 13 Lightning Protection for Buildings (26 41 13)					
26 41 13 13-0001			Lightning Protection (26 41 13 13) See CSI section 26 05 26 00-0001 for conductors.		
26 41 13 13-0002			Air Terminals For Lightning Protection (26 41 13 13-0001)		
26 41 13 13-0003			Copper Lightning Protection Air Terminals (26 41 13 13-0002)		
26 41 13 13-0004	EA		3/8" x 10" Copper Lightning Protection Air Terminal	69.65	13.69
26 41 13 13-0005	EA		1/2" x 12" Copper Lightning Protection Air Terminal	86.90	13.69
26 41 13 13-0006	EA		5/8" x 12" Copper Lightning Protection Air Terminal	112.11	13.69
26 41 13 13-0007	EA		1/2" x 24" Copper Lightning Protection Air Terminal	124.78	13.69
26 41 13 13-0008	EA		1/2" x 60" Copper Lightning Protection Air Terminal	240.05	27.36
26 41 13 13-0009			Aluminum Lightning Protection Air Terminals (26 41 13 13-0002)		
26 41 13 13-0010	EA		3/8" x 10" Aluminum Lightning Protection Air Terminal	60.34	13.69
26 41 13 13-0011	EA		1/2" x 12" Aluminum Lightning Protection Air Terminal	77.42	13.69
26 41 13 13-0012	EA		5/8" x 12" Aluminum Lightning Protection Air Terminal	96.51	13.69
26 41 13 13-0013	EA		1/2" x 24" Aluminum Lightning Protection Air Terminal	107.56	13.69
26 41 13 13-0014	EA		1/2" x 60" Aluminum Lightning Protection Air Terminal	204.58	27.36
26 41 13 13-0015			Terminal Bases For Lightning Protection (26 41 13 13-0001)		
26 41 13 13-0016			Copper Lightning Protection Terminal Bases (26 41 13 13-0015)		
26 41 13 13-0017	EA		Adhesive Base For Copper Lightning Protection Terminal	101.79	41.05
26 41 13 13-0018	EA		Bolted Base For Copper Lightning Protection Terminal	134.39	54.73
26 41 13 13-0019	EA		Hinged Base For Copper Lightning Protection Terminal	184.23	68.41
26 41 13 13-0020	EA		Side Mounted Base For Copper Lightning Protection Terminal	137.98	54.73
26 41 13 13-0021	EA		Offset Point Support For Copper Lightning Protection Terminal	145.88	54.73
26 41 13 13-0022	EA		Concealed Base Assembly For Copper Lightning Protection Terminal	260.95	109.46
26 41 13 13-0023	EA		36" Tripod Base For 60" Copper Lightning Protection Terminal	182.16	68.41
26 41 13 13-0024	EA		Intermediate Base For Copper Lightning Protection Terminal	101.79	41.05
26 41 13 13-0025			Aluminum Lightning Protection Terminal Bases (26 41 13 13-0015)		
26 41 13 13-0026	EA		Adhesive Base For Aluminum Lightning Protection Terminal	93.99	41.05
26 41 13 13-0027	EA		Bolted Base For Aluminum Lightning Protection Terminal	134.39	54.73
26 41 13 13-0028	EA		Hinged Base For Aluminum Lightning Protection Terminal	177.00	68.41
26 41 13 13-0029	EA		Side Mounted Base For Aluminum Lightning Protection Terminal	134.70	54.73
26 41 13 13-0030	EA		Offset Point Support For Aluminum Lightning Protection Terminal	139.01	54.73
26 41 13 13-0031	EA		Concealed Base Assembly For Aluminum Lightning Protection Terminal	254.88	109.46
26 41 13 13-0032	EA		36" Tripod Base For 60" Aluminum Lightning Protection Terminal	173.41	68.41
26 41 13 13-0033	EA		Intermediate Base For Aluminum Lightning Protection Terminal	93.99	41.05
26 41 13 13-0034			Connectors (26 41 13 13-0001)		
26 41 13 13-0035			Copper Cable Connectors (26 41 13 13-0034)		
26 41 13 13-0036	EA		Thru Wall Cable Connector For Copper Lightning Protection System	205.13	68.41
26 41 13 13-0037	EA		Thru Roof Adapter Assembly For Copper Lightning Protection System	282.28	109.46
26 41 13 13-0038	EA		Beam Connector For Copper Lightning Protection System	185.66	68.41
26 41 13 13-0039	EA		Double Bolt Cable Connector For Copper Lightning Protection System	43.57	13.69

26	Electrical
26 40	Electrical And Cathodic Protection
26 41	Facility Lightning Protection



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 41 13 13-0040 EA Cable To Bar Connector For Copper Lightning Protection System.....	44.30	13.69
26 41 13 13-0041 EA Tee Connector For Copper Lightning Protection Terminal.....	135.37	41.05
26 41 13 13-0042 Aluminum Cable Connectors (26 41 13 13-0034)		
26 41 13 13-0043 EA Thru Wall Cable Connector For Aluminum Lightning Protection System.....	190.25	68.41
26 41 13 13-0044 EA Thru Roof Adapter Assembly For Aluminum Lightning Protection System.....	272.58	109.46
26 41 13 13-0045 EA Beam Connector For Aluminum Lightning Protection System.....	181.01	68.41
26 41 13 13-0046 EA Double Bolt Cable Connector For Aluminum Lightning Protection System.....	41.06	13.69
26 41 13 13-0047 EA Tee Connector For Aluminum Lightning Protection Terminal.....	121.87	41.05
26 41 13 13-0048 Bonding Plates (26 41 13 13-0001)		
26 41 13 13-0049 Copper Bonding Plates (26 41 13 13-0048)		
26 41 13 13-0050 EA 8" Square I Beam Bonding Plate For Copper Lightning Protection System.....	166.86	68.41
26 41 13 13-0051 EA 8" Square Purlin Bonding Plate For Copper Lightning Protection System.....	171.68	68.41
26 41 13 13-0052 EA 16" Square Bonding Plate For Copper Lightning Protection System.....	253.22	109.46
26 41 13 13-0053 Aluminum Bonding Plates (26 41 13 13-0048)		
26 41 13 13-0054 EA 8" Square I Beam Bonding Plate For Aluminum Lightning Protection System.....	160.99	68.41
26 41 13 13-0055 EA 8" Square Purlin Bonding Plate For Aluminum Lightning Protection System.....	165.92	68.41
26 41 13 13-0056 EA 16" Square Bonding Plate For Aluminum Lightning Protection System.....	242.25	109.46
26 41 13 13-0057 Cable Supports (26 41 13 13-0001)		
26 41 13 13-0058 Copper Cable Supports (26 41 13 13-0057)		
26 41 13 13-0059 EA Loop Fastener, Copper Cable Supports For Lightning Protection System.....	30.82	13.69
26 41 13 13-0060 EA Adhesive Cable Holder, Copper Cable Support For Lightning Protection System.....	31.29	13.69
26 41 13 13-0061 Aluminum Cable Supports (26 41 13 13-0057)		
26 41 13 13-0062 EA Loop Fastener, Aluminum Cable Supports For Lightning Protection System.....	30.46	13.69
26 41 13 13-0063 EA Adhesive Cable Holder, Aluminum Cable Support For Lightning Protection System.....	30.30	13.69
26 41 13 13-0064 Bonding Straps (26 41 13 13-0001)		
26 41 13 13-0065 Copper Bonding Straps (26 41 13 13-0064)		
26 41 13 13-0066 EA 3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System.....	87.29	41.05
26 41 13 13-0067 Aluminum Bonding Straps (26 41 13 13-0064)		
26 41 13 13-0068 EA 3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System.....	83.52	41.05
26 41 13 13-0069 Accessories For Lightning Protection (26 41 13 13-0001)		
See CSI section 26 05 26 00-0001 for conductors straps and conduit jumpers.		
26 41 13 13-0070 Copper Adapters (26 41 13 13-0069)		
26 41 13 13-0071 EA Swivel Adapters For Copper Lightning Protection System.....	31.77	6.84
26 41 13 13-0072 Aluminum Adapters (26 41 13 13-0069)		
26 41 13 13-0073 EA Swivel Adapters For Aluminum Lightning Protection System.....	31.34	6.84
26 41 13 13-0074 EA Floor Ground Receptacle For Aluminum Lightning Protection System.....	207.14	68.41
26 41 23 Lightning Protection Surge Arresters and Suppressors (26 41)		
26 41 23 00-0001 Surge And Lightning Arrestors (26 41 23)		
26 41 23 00-0002 Metal Top Intermediate Type IMX (26 41 23 00-0001)		
Note: For outdoor construction, single phase.		
26 41 23 00-0003 EA 3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,243.54	298.76
26 41 23 00-0004 EA 4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,344.04	298.76
26 41 23 00-0005 EA 6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,344.04	298.76
26 41 23 00-0006 EA 7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,530.67	298.76
26 41 23 00-0007 EA 9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,530.67	298.76
26 41 23 00-0008 EA 10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,685.72	298.76
26 41 23 00-0009 EA 12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	1,685.72	298.76
26 41 23 00-0010 EA 15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,294.49	373.45
26 41 23 00-0011 EA 18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,374.88	373.45
26 41 23 00-0012 EA 21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,615.64	448.13
26 41 23 00-0013 EA 24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	2,822.37	448.13
26 41 23 00-0014 EA 27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase.....	3,342.07	448.13



Electrical	26	26
Electrical And Cathodic Protection	26 40	
Facility Lightning Protection	26 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 41 23 00-0015 Porcelain Top Intermediate Type IMX <small>(26 41 23 00-0001)</small>		
Note: For cubicle mounting, single phase.		
26 41 23 00-0016 EA 3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,243.54	298.76
26 41 23 00-0017 EA 4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,344.04	298.76
26 41 23 00-0018 EA 6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,344.04	298.76
26 41 23 00-0019 EA 7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,530.67	298.76
26 41 23 00-0020 EA 9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,530.67	298.76
26 41 23 00-0021 EA 10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,685.72	298.76
26 41 23 00-0022 EA 12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	1,685.72	298.76
26 41 23 00-0023 EA 15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,294.49	373.45
26 41 23 00-0024 EA 18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,374.88	373.45
26 41 23 00-0025 EA 21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,615.64	448.13
26 41 23 00-0026 EA 24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	2,822.37	448.13
26 41 23 00-0027 EA 27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase.....	3,342.07	448.13
26 41 23 00-0028 IMX Accessories <small>(26 41 23 00-0001)</small>		
26 41 23 00-0029 EA 1 Crossarm Bracket Reversible 3-27 KV IMX	1,036.81	298.76
26 41 23 00-0030 EA Single Unit Horizontal Pole Mounted Bracket (IMX)	1,025.33	298.76
26 41 23 00-0031 EA 3 Unit Horizontal Pole Mounted Bracket (IMX)	939.30	298.76
26 41 23 00-0032 Lightning Arrestor And Cutouts <small>(26 41 23 00-0001)</small>		
26 41 23 00-0033 EA 3 KV La Distribution Class, Lightning Arrestor	715.23	298.76
26 41 23 00-0034 EA 3 KV La Interior Class, Lightning Arrestor.....	1,320.03	298.76
26 41 23 00-0035 EA 3 KV La Station Class, Lightning Arrestor.....	1,243.54	298.76
26 41 23 00-0036 EA 9 KV La Distribution Class, Lightning Arrestor	778.40	298.76
26 41 23 00-0037 EA 9 KV La Interior Class, Lightning Arrestor.....	1,487.48	298.76
26 41 23 00-0038 EA 9 KV La Station Class, Lightning Arrestor.....	1,530.67	298.76
26 41 23 00-0039 EA 5 KV Enclosed Fused Cutout.....	876.60	298.76
26 41 23 00-0040 EA 15 KV Open Fused Cutout.....	956.48	373.45
26 41 23 00-0041 EA 18 KV La Distribution Class, Lightning Arrestor	745.17	298.76
26 41 23 00-0042 EA 18 KV La Interior Class, Lightning Arrestor.....	1,576.99	298.76
26 43 Surge Protective Devices <small>(26 40)</small>		
26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits <small>(26 43)</small>		
26 43 13 00-0001 25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0002 EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	313.65	34.21
26 43 13 00-0003 EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	338.53	34.21
26 43 13 00-0004 EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	352.22	41.05
26 43 13 00-0005 EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	292.86	27.36
26 43 13 00-0006 EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	352.22	41.05
26 43 13 00-0007 50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0008 EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	436.27	34.21
26 43 13 00-0009 EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	464.18	41.05
26 43 13 00-0010 EA 240/120 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	480.49	34.21
26 43 13 00-0011 EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	464.18	41.05
26 43 13 00-0012 100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert LPL		
26 43 13 00-0013 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	528.68	34.21
26 43 13 00-0014 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	556.59	41.05
26 43 13 00-0015 EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	493.67	27.36
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	556.59	41.05
26 43 13 00-0017 100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert LPM		
26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	624.64	34.21
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	704.08	41.05
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	591.41	27.36
26 43 13 00-0021 160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert LPM		
26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	1,103.93	41.05
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	1,090.24	34.21
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	1,103.93	41.05
26 43 13 00-0025 250 kA, 500 Joule Transient Voltage Surge Suppression <small>(26 43 13)</small>		
Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	6,407.01	68.41

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	7,828.69	68.41
26 43 13 00-0028 Class 1310 Transient Voltage Surge Suppression ^(26 43 13) Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029 NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028) Note: Square D. EMA series.		
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,160.43 265.68 203.04	177.88
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,690.70 265.68 203.04	205.24
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,320.79 265.68 203.04	239.45
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	11,074.44 265.68 203.04	273.66
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	16,390.35 265.68 203.04	376.28
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,385.53 265.68 203.04	177.88
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,937.98 265.68 203.04	205.24
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,702.84 265.68 203.04	239.45
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	11,570.61 265.68 203.04	273.66
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,156.00 265.68 203.04	376.28
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,385.53 265.68 203.04	177.88
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,937.98 265.68 203.04	205.24
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,702.78 265.68 203.04	239.45
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	11,570.61 265.68 203.04	273.66
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,156.00 265.68 203.04	376.28
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,610.65 265.68 203.04	177.88
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,188.45 265.68 203.04	205.24
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,088.02 265.68 203.04	239.45
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,070.02 265.68 203.04	273.66
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,924.76 265.68 203.04	376.28
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,872.20 265.68 203.04	177.88
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,448.47 265.68 203.04	205.24
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,490.66 265.68 203.04	239.45
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,593.12 265.68 203.04	273.66
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	17,641.75 265.68 203.04	376.28



Electrical	26	26
Electrical And Cathodic Protection	26 40	
Surge Protective Devices	26 43	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶		
		<small>43 13 00-0028)</small> Note: Square D EBA series.		
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,019.13	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,856.95	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	7,125.59	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,147.53	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,047.17	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	7,374.45	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,147.53	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,047.17	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0064	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	7,374.45	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0065	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,310.81	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0066	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,251.66	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0067	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	7,693.07	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0068	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	4,482.01	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0069	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,468.82	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0070	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	8,027.54	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0071		NEMA 4X Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028)		
		Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,658.42	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0073	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,188.69	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0074	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	9,818.78	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0075	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,883.52	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0076	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,435.97	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0077	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,200.82	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0078	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	6,883.52	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0079	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,435.97	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0080	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	10,200.76	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0081	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,108.64	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0082	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor.....	7,686.43	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	

26	Electrical
26 40	Electrical And Cathodic Protection
26 43	Surge Protective Devices



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 43 13 00-0083	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	10,586.01	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0084	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	7,370.19	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0085	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	7,946.46	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0086	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor	10,988.65	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0087		NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-)		
		⁽⁰⁰²⁸⁾ Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,517.12	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0089	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,354.94	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0090	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	8,623.58	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0091	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,645.52	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0092	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,545.16	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0093	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	8,872.44	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0094	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,645.52	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0095	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,545.16	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0096	EA	240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	8,872.44	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0097	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,808.80	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0098	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,749.65	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0099	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	9,191.06	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0100	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	5,980.00	177.88
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0101	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	6,966.81	205.24
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0102	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor	9,525.53	239.45
		<i>For Integral Disconnect, Add</i>	265.68	
		<i>For Surge Counter, Add</i>	203.04	

26 50 Lighting ⁽²⁶⁾

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting ^(26 50)

26 51 13 Incandescent Interior Lighting ^(26 51)

26 51 13 00-0001 Recessed Fixtures ^(26 51 13)

Note: Housing and trim priced separately.

26 51 13 00-0002 Incandescent, Recessed Fixture Housings ^(26 51 13 00-0001)

26 51 13 00-0003	EA	4" Round, Incandescent, T Or ICT Recessed Fixture Housing	84.91	39.14
		<i>For ICAT Housing, Add</i>	3.36	
26 51 13 00-0004	EA	5" Round, Incandescent, T Or ICT Recessed Fixture Housing	84.91	39.14
		<i>For ICAT Housing, Add</i>	3.36	
26 51 13 00-0005	EA	6" Round, Incandescent, T Or ICT Recessed Fixture Housing	89.90	41.05
		<i>For ICAT Housing, Add</i>	3.65	
26 51 13 00-0006	EA	7" Round, Incandescent, T Or ICT Recessed Fixture Housing	95.02	42.82
		<i>For ICAT Housing, Add</i>	3.96	



	Electrical	26
	Lighting	26 50
	Interior Lighting	26 51

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				26 51 13 00-0007 EA 8" Round, Incandescent, T Or ICT Recessed Fixture Housing.....	100.16	44.61
				<i>For ICAT Housing, Add</i>	4.27	
				26 51 13 00-0008 EA 10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing.....	102.88	47.34
				<i>For ICAT Housing, Add</i>	4.09	
				26 51 13 00-0009 Recessed Fixture Trim (26 51 13 00-0001)		
				26 51 13 00-0010 EA Circular, Recessed Fixture Trim	61.00	19.16
				26 51 13 00-0011 EA Circular Clear Lens, Recessed Fixture Trim.....	66.91	19.16
				26 51 13 00-0012 EA Open/Baffle, Recessed Fixture Trim.....	77.15	19.16
				26 51 13 00-0013 EA Specular Reflector, Recessed Fixture Trim	82.57	19.16
				26 51 13 00-0014 EA Eyeball, Recessed Fixture Trim.....	66.99	19.16
				26 51 13 00-0015 EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim	63.82	19.16
				26 51 13 00-0016 EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim.....	67.46	19.16
				26 51 13 00-0017 Track Lighting (26 51 13)		
				26 51 13 00-0018 Track Lighting Tracks (26 51 13 00-0017)		
				26 51 13 00-0019 LF 1 Circuit Track Lighting Track.....	25.45	9.03
				26 51 13 00-0020 LF 2 Circuit Track Lighting Track.....	32.59	9.03
				26 51 13 00-0021 LF 3 Circuit Track Lighting Track.....	38.71	9.03
				26 51 13 00-0022 LF 4 Circuit Track Lighting Track.....	44.85	10.94
				26 51 13 00-0023 Incandescent Track Lighting Fixtures (26 51 13 00-0017)		
				26 51 13 00-0024 EA Incandescent Track Lighting Fixture, 120 Volt.....	78.06	22.85
				26 51 13 00-0025 EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....	62.81	22.85
				26 51 13 00-0026 EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....	84.90	22.85
				26 51 13 00-0027 EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....	87.09	22.85
				26 51 13 00-0028 EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	72.81	22.85
				26 51 13 00-0029 EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	62.81	22.85
				26 51 13 00-0030 EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	71.76	22.85
				Note: 120V.		
				26 51 13 00-0031 EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	89.28	22.85
				26 51 13 00-0032 Track Lighting Accessories (26 51 13 00-0017)		
				26 51 13 00-0033 Pendant Mounting (26 51 13 00-0032)		
				26 51 13 00-0034 EA Track Lighting Pendant Mounting, Up to 12"	30.19	
				26 51 13 00-0035 EA Track Lighting Pendant Mounting, >12" To 24"	38.41	
				26 51 13 00-0036 EA Track Lighting Pendant Mounting, >24" To 36"	46.69	
				26 51 13 00-0037 Wet Location, Dust Resistant, Vapor Tight Fixtures (26 51 13)		
				26 51 13 00-0038 Incandescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 13 00-0037)		
				26 51 13 00-0039 EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	146.72	54.73
				<i>For Wall Mounted, Add</i>	5.10	
				26 51 13 00-0040 EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	167.12	54.73
				<i>For Wall Mounted, Add</i>	5.10	
				26 51 16 Fluorescent Interior Lighting (26 51)		
				26 51 16 00-0001 Fluorescent Fixtures (26 51 16)		
				26 51 16 00-0002 Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0001)		
				26 51 16 00-0003 6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
				26 51 16 00-0004 EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture	167.74	39.13
				26 51 16 00-0005 EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	186.68	39.13
				26 51 16 00-0006 6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
				26 51 16 00-0007 EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture	186.27	40.75
				26 51 16 00-0008 EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	205.12	40.75
				26 51 16 00-0009 1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
				26 51 16 00-0010 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	219.75	45.75
				26 51 16 00-0011 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	256.36	45.75
				26 51 16 00-0012 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture	296.84	45.75
				26 51 16 00-0013 2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures (26 51 16 00-0002)		
				26 51 16 00-0014 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	186.99	50.00
				26 51 16 00-0015 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture	213.31	50.00

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0016			2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures <small>(26 51 16 00-0002)</small>		
	EA		2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	282.10	58.26
	EA		3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	300.42	58.26
	EA		4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture	336.98	58.26
26 51 16 00-0020			Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
			Note: Includes prismatic lens.		
26 51 16 00-0021			1' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
	EA		2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	218.60	45.38
	EA		3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	345.04	45.38
	EA		4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture	390.11	45.38
26 51 16 00-0025			2' x 2', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
	EA		2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	339.51	50.00
	EA		3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	369.16	50.00
	EA		4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture	390.56	50.00
26 51 16 00-0029			2' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
	EA		2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	343.48	58.26
	EA		3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	373.19	58.26
	EA		4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	388.73	58.26
	EA		6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture	411.50	58.26
26 51 16 00-0034			4' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
	EA		4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	665.98	75.01
	EA		6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	672.94	75.01
	EA		8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture	549.19	75.01
26 51 16 00-0038			Recessed Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0039			Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0040			1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
	EA		2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	224.24	39.13
			<i>For Drywall Or Plaster Ceilings, Add</i>	26.44	
26 51 16 00-0042			1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
	EA		2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	284.79	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
	EA		2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	504.38	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
26 51 16 00-0045			2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
	EA		2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	294.17	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
	EA		3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	332.80	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
	EA		4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	337.40	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.76	
	EA		2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	362.56	50.00
			<i>For Drywall Or Plaster Ceilings, Add</i>	33.75	
26 51 16 00-0050			2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
	EA		2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	287.17	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	385.26	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	388.74	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	428.44	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	382.01	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	510.09	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
	EA		4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	522.85	58.26
			<i>For Drywall Or Plaster Ceilings, Add</i>	39.38	
26 51 16 00-0058			Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0059			1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0058)</small>		



	Electrical 26	26
	Lighting 26 50	
	Interior Lighting 26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0060 EA 1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture..... <i>For Drywall Or Plaster Ceilings, Add</i>	256.05 26.44	39.13
26 51 16 00-0061 EA 2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	260.64 26.44	39.13
26 51 16 00-0062 EA 3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	301.62 26.44	39.13
26 51 16 00-0063 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0058)</small>		
26 51 16 00-0064 EA 1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture..... <i>For Drywall Or Plaster Ceilings, Add</i>	289.63 30.94	45.38
26 51 16 00-0065 EA 2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	293.11 30.94	45.38
26 51 16 00-0066 EA 3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	326.48 30.94	45.38
26 51 16 00-0067 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0058)</small>		
26 51 16 00-0068 EA 2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	302.07 33.76	50.00
26 51 16 00-0069 EA 3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	306.66 33.76	50.00
26 51 16 00-0070 EA 4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	347.05 33.76	50.00
26 51 16 00-0071 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0058)</small>		
26 51 16 00-0072 EA 2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	287.17 39.38	58.26
26 51 16 00-0073 EA 3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	329.00 39.38	58.26
26 51 16 00-0074 EA 4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	368.72 39.38	58.26
26 51 16 00-0075 EA 6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	412.07 39.38	58.26
26 51 16 00-0076 Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0077 1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0076)</small>		
26 51 16 00-0078 EA 1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	517.87 30.94	45.38
26 51 16 00-0079 EA 2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	521.35 30.94	45.38
26 51 16 00-0080 EA 1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	613.23 30.94	45.38
26 51 16 00-0081 EA 2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	626.00 30.94	45.38
26 51 16 00-0082 2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0076)</small>		
26 51 16 00-0083 EA 2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	422.47 33.75	50.00
26 51 16 00-0084 EA 3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	468.42 33.75	50.00
26 51 16 00-0085 EA 2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	570.28 33.75	50.00
26 51 16 00-0086 2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures <small>(26 51 16 00-0076)</small>		
26 51 16 00-0087 EA 2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	470.95 39.38	58.26
26 51 16 00-0088 EA 3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	572.69 39.38	58.26
26 51 16 00-0089 EA 1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	611.42 39.38	58.26
26 51 16 00-0090 EA 2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	671.22 39.38	58.26
26 51 16 00-0091 Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0092 1' x 4', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0093 EA 2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	411.28 30.94	45.38
26 51 16 00-0094 EA 2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	534.92 30.94	45.38
26 51 16 00-0095 2' x 2', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0096 EA 2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	412.60 33.75	50.00

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0097 EA 2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture..... <i>For Drywall Or Plaster Ceilings, Add</i>	467.88 33.75	50.00
26 51 16 00-0098 2' x 4', Volumetric, Recessed Fluorescent Fixtures (26 51 16 00-0091)		
26 51 16 00-0099 EA 2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture..... <i>For Drywall Or Plaster Ceilings, Add</i>	459.26 39.38	58.26
26 51 16 00-0100 EA 2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture..... <i>For Drywall Or Plaster Ceilings, Add</i>	460.18 39.38	58.26
26 51 16 00-0101 Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0102 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0103 EA 2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	384.00 30.94	45.38
26 51 16 00-0104 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0105 EA 2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	375.07 33.75	50.00
26 51 16 00-0106 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0101)		
26 51 16 00-0107 EA 2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	447.57 39.38	58.26
26 51 16 00-0108 EA 3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	512.37 39.38	58.26
26 51 16 00-0109 EA 4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	507.14 39.38	58.26
26 51 16 00-0110 Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0038)		
26 51 16 00-0111 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0112 EA 2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	367.21 30.94	45.38
26 51 16 00-0113 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0114 EA 2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	374.67 33.75	50.00
26 51 16 00-0115 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures (26 51 16 00-0110)		
26 51 16 00-0116 EA 2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	457.00 39.38	58.26
26 51 16 00-0117 EA 3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	463.75 39.38	58.26
26 51 16 00-0118 EA 4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	474.17 39.38	58.26
26 51 16 00-0119 Striplight Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0120 1 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0121 EA 1-1/2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	171.36	37.50
26 51 16 00-0122 EA 2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	204.43	37.50
26 51 16 00-0123 EA 3' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	204.27	41.63
26 51 16 00-0124 EA 4' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	208.53	45.75
26 51 16 00-0125 EA 8' Length, 1 T8 Lamp, Striplight Fluorescent Fixture.....	252.11	54.19
26 51 16 00-0126 2 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0127 EA 2' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	207.99	41.63
26 51 16 00-0128 EA 3' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	215.97	45.75
26 51 16 00-0129 EA 4' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	218.26	50.00
26 51 16 00-0130 3 Lamp Cross Section, Striplight Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0131 EA 2' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	290.82	41.63
26 51 16 00-0132 EA 3' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	285.13	45.75
26 51 16 00-0133 EA 4' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	285.43	50.00



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 16 00-0134		Display Case Fluorescent Fixtures (26 51 16 00-0119)		
26 51 16 00-0135	EA	1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W)	130.66	41.05
26 51 16 00-0136	EA	1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....	162.88	41.05
26 51 16 00-0137	EA	1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....	176.45	47.89
26 51 16 00-0138	EA	1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....	178.94	47.89
26 51 16 00-0139		Industrial Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0140		1 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0141	EA	2' Length, 1 T8 Lamp, Industrial Fluorescent Fixture	235.36	37.50
26 51 16 00-0142	EA	4' Length, 1 T8 Lamp, Industrial Fluorescent Fixture.....	250.28	45.75
26 51 16 00-0143	EA	8' Length, 1 T8 Lamp, Industrial Fluorescent Fixture.....	440.02	58.26
26 51 16 00-0144		2 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0145	EA	2' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	246.20	41.63
26 51 16 00-0146	EA	4' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	260.03	50.00
26 51 16 00-0147	EA	8' Length, 2 T8 Lamps, Industrial Fluorescent Fixture	446.97	58.26
26 51 16 00-0148		3 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0149	EA	2' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	256.25	41.63
26 51 16 00-0150	EA	4' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	267.60	50.00
26 51 16 00-0151	EA	8' Length, 3 T8 Lamps, Industrial Fluorescent Fixture	392.05	58.26
26 51 16 00-0152		4 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)		
26 51 16 00-0153	EA	4' Length, 4 T8 Lamps, Industrial Fluorescent Fixture	354.60	50.00
26 51 16 00-0154	EA	8' Length, 4 T8 Lamps, Industrial Fluorescent Fixture	508.18	58.26
26 51 16 00-0155		Flanged Fluorescent Fixture (26 51 16 00-0001)		
Note: For plaster or drywall application. With electronic ballast.				
26 51 16 00-0156	EA	2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	352.20	75.01
26 51 16 00-0157	EA	3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	410.26	75.01
26 51 16 00-0158	EA	4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture	413.74	75.01
26 51 16 00-0159		Undercabinet Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0160	EA	1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture	131.96	33.76
26 51 16 00-0161	EA	1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture	154.93	41.25
26 51 16 00-0162	EA	2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture	152.85	41.25
26 51 16 00-0163	EA	1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture	181.50	45.00
26 51 16 00-0164	EA	2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture	211.12	52.51
26 51 16 00-0165		Corner Mounted, Fluorescent Fixtures (26 51 16 00-0001)		
Note: Includes acrylic drop dish diffuser.				
26 51 16 00-0166		2' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0167	EA	1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture.....	219.56	37.50
26 51 16 00-0168	EA	2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture.....	243.20	37.50
26 51 16 00-0169		3' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0170	EA	1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture.....	249.14	39.38
26 51 16 00-0171	EA	2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture.....	271.72	39.38
26 51 16 00-0172		4' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)		
26 51 16 00-0173	EA	1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture.....	244.57	41.25
26 51 16 00-0174	EA	2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture.....	266.05	41.25
26 51 16 00-0175		Wall Bracket, Fluorescent Fixtures (26 51 16 00-0001)		
26 51 16 00-0176		Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0175)		
Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast.				
26 51 16 00-0177		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0178	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	241.87	62.94
26 51 16 00-0179	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	245.78	62.94
26 51 16 00-0180		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)		
26 51 16 00-0181	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	311.68	62.94
26 51 16 00-0182	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	317.14	62.94

26	26 Electrical
	26 50 Lighting
	26 51 Interior Lighting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 16 00-0183		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) <small>(26 51 16 00-0176)</small>		
26 51 16 00-0184	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	322.78	62.94
26 51 16 00-0185	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W)	326.69	62.94
26 51 16 00-0186		Wall Bracket, Fluorescent Fixtures (Lithonia WP) <small>(26 51 16 00-0175)</small> Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0187		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) <small>(26 51 16 00-0186)</small>		
26 51 16 00-0188	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	564.95	62.94
26 51 16 00-0189	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	568.86	62.94
26 51 16 00-0190		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) <small>(26 51 16 00-0186)</small>		
26 51 16 00-0191	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	447.41	62.94
26 51 16 00-0192	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	452.87	62.94
26 51 16 00-0193		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) <small>(26 51 16 00-0186)</small>		
26 51 16 00-0194	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	514.02	62.94
26 51 16 00-0195	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP)	517.93	62.94
26 51 16 00-0196		Wall Bracket, Fluorescent Fixtures (Lithonia WC) <small>(26 51 16 00-0175)</small> Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
26 51 16 00-0197		2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) <small>(26 51 16 00-0196)</small>		
26 51 16 00-0198	EA	1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	231.81	62.94
26 51 16 00-0199	EA	2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	235.72	62.94
26 51 16 00-0200		3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) <small>(26 51 16 00-0196)</small>		
26 51 16 00-0201	EA	1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	233.37	62.94
26 51 16 00-0202	EA	2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	238.83	62.94
26 51 16 00-0203		4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) <small>(26 51 16 00-0196)</small>		
26 51 16 00-0204	EA	1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	224.11	62.94
26 51 16 00-0205	EA	2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC)	228.02	62.94
26 51 16 00-0206		Low Occupancy, Industrial Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0207	EA	1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP)	278.19	45.75
26 51 16 00-0208	EA	2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP)	284.45	50.00
26 51 16 00-0209		Ceiling Mounted Fluorescent Fixtures <small>(26 51 16)</small>		
26 51 16 00-0210		Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0211		Glass Globe, Compact Fluorescent/Incandescent Fixtures <small>(26 51 16 00-0210)</small>		
26 51 16 00-0212	EA	6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture	149.94	54.73
26 51 16 00-0213	EA	9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture	173.14	54.73
26 51 16 00-0214		Ceiling Mounted, Circline Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0215		Exposed Lamps, Circline Fluorescent Fixtures <small>(26 51 16 00-0214)</small>		
26 51 16 00-0216	EA	8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture	131.45	54.73
26 51 16 00-0217	EA	12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture	142.00	54.73
26 51 16 00-0218		Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures <small>(26 51 16 00-0214)</small>		
26 51 16 00-0219	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	180.69	54.73
26 51 16 00-0220	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	244.56	54.73
26 51 16 00-0221	EA	19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	288.81	54.73
26 51 16 00-0222	EA	12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	201.38	54.73
26 51 16 00-0223	EA	15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	245.87	54.73
26 51 16 00-0224	EA	19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture	288.81	54.73
26 51 16 00-0225		Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0226		Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures <small>(26 51 16 00-0225)</small>		
26 51 16 00-0227	EA	11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture	184.80	54.73
26 51 16 00-0228	EA	14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture	229.36	54.73



Electrical		26
Lighting		26 50
Interior Lighting		26 51

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0229	EA		19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	269.12	54.73
26 51 16 00-0230	EA		12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	152.87	54.73
26 51 16 00-0231	EA		15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	177.23	54.73
26 51 16 00-0232	EA		19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	223.40	54.73
26 51 16 00-0233			Pendant Mounted, Compact Fluorescent/Incandescent Downlights <small>(26 51 16 00-0209)</small>		
26 51 16 00-0234			Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights <small>(26 51 16 00-0233)</small>		
26 51 16 00-0235	EA		6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight.....	266.15	44.96
26 51 16 00-0236			Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle <small>(26 51 16 00-0233)</small>		
26 51 16 00-0237	EA		6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	301.47	44.96
26 51 16 00-0238	EA		8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	415.42	44.96
26 51 16 00-0239			Pendant Mounted, Horizontal Indirect Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0240	EA		1 T5HO Lamp, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	262.69	44.96
26 51 16 00-0241	EA		2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	277.68	44.96
26 51 16 00-0242	EA		3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	328.87	44.96
26 51 16 00-0243	EA		2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	341.83	44.96
26 51 16 00-0244	EA		4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	404.72	44.96
26 51 16 00-0245	EA		6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	479.12	44.96
26 51 16 00-0246			Finelite Fluorescent Fixtures <small>(26 51 16 00-0209)</small>		
26 51 16 00-0247			Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) <small>(26 51 16 00-0246)</small>		
26 51 16 00-0248	EA		1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	439.77	63.76
26 51 16 00-0249	EA		2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	436.12	63.76
26 51 16 00-0250	EA		3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	468.10	63.76
26 51 16 00-0251	EA		1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	526.94	63.76
26 51 16 00-0252	EA		2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	574.82	63.76
26 51 16 00-0253	EA		3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	701.10	63.76
26 51 16 00-0254	EA		2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	617.00	66.50
26 51 16 00-0255	EA		4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	631.08	66.50
26 51 16 00-0256	EA		6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	695.04	66.50
26 51 16 00-0257	EA		2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	677.32	66.50
26 51 16 00-0258	EA		4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	844.35	66.50
26 51 16 00-0259	EA		6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	990.01	66.50
26 51 16 00-0260	EA		3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	808.50	69.24
26 51 16 00-0261	EA		6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	833.18	69.24
26 51 16 00-0262	EA		9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	914.86	69.24
26 51 16 00-0263	EA		3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	934.60	69.24
26 51 16 00-0264	EA		6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,149.52	69.24
26 51 16 00-0265	EA		9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,371.57	69.24
26 51 16 00-0266			Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O) <small>(26 51 16 00-0246)</small>		
26 51 16 00-0267	EA		1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	436.23	63.76
26 51 16 00-0268	EA		1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	475.12	63.76
26 51 16 00-0269	EA		1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	474.28	63.76
26 51 16 00-0270	EA		2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	629.60	66.50
26 51 16 00-0271	EA		2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	676.18	66.50

26 Electrical
26 50 Lighting
 26 51 Interior Lighting



MINOR		DESCRIPTION		TOTAL DIRECT	DEMOLITION
CSI	UOM			UNIT COST	UNIT COST
26 51 16 00-0272	EA	2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)		674.50	66.50
26 51 16 00-0273	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)		822.98	69.24
26 51 16 00-0274	EA	3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)		939.64	69.24
26 51 16 00-0275	EA	3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O)		937.12	69.24
26 51 16 00-0276		Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8) <small>(26 51 16 00-0246)</small>			
26 51 16 00-0277	EA	1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		338.32	63.76
26 51 16 00-0278	EA	2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		353.75	63.76
26 51 16 00-0279	EA	3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		413.03	63.76
26 51 16 00-0280	EA	2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		434.21	66.50
26 51 16 00-0281	EA	4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		504.93	66.50
26 51 16 00-0282	EA	6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		589.61	66.50
26 51 16 00-0283	EA	3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		589.89	69.24
26 51 16 00-0284	EA	6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		711.93	69.24
26 51 16 00-0285	EA	9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I)		841.93	69.24
26 51 16 00-0286		Fluorescent, Recessed Fixture Housings <small>(26 51 16)</small>			
26 51 16 00-0287	EA	4" Round, Fluorescent, T Or ICT Recessed Fixture Housing		126.31	39.14
		<i>For ICAT Housing, Add</i>		8.70	
26 51 16 00-0288	EA	5" Round, Fluorescent, T Or ICT Recessed Fixture Housing		129.98	39.14
		<i>For ICAT Housing, Add</i>		9.18	
26 51 16 00-0289	EA	6" Round, Fluorescent, T Or ICT Recessed Fixture Housing		135.50	40.91
		<i>For ICAT Housing, Add</i>		9.54	
26 51 16 00-0290	EA	7" Round, Fluorescent, T Or ICT Recessed Fixture Housing		142.29	42.41
		<i>For ICAT Housing, Add</i>		10.06	
26 51 16 00-0291	EA	8" Round, Fluorescent, T Or ICT Recessed Fixture Housing		148.30	44.61
		<i>For ICAT Housing, Add</i>		10.48	
26 51 16 00-0292	EA	10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing		154.08	47.34
		<i>For ICAT Housing, Add</i>		10.70	
26 51 16 00-0293		Compact Fluorescent, Recessed Fixture Housings <small>(26 51 16)</small>			
26 51 16 00-0294	EA	4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		142.11	39.14
		<i>For ICAT Housing, Add</i>		10.74	
26 51 16 00-0295	EA	5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		145.73	39.14
		<i>For ICAT Housing, Add</i>		11.21	
26 51 16 00-0296	EA	6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		151.38	41.05
		<i>For ICAT Housing, Add</i>		11.59	
26 51 16 00-0297	EA	7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		156.07	42.82
		<i>For ICAT Housing, Add</i>		11.84	
26 51 16 00-0298	EA	8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		161.36	44.61
		<i>For ICAT Housing, Add</i>		12.17	
26 51 16 00-0299	EA	10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing		166.86	47.34
		<i>For ICAT Housing, Add</i>		12.35	
26 51 16 00-0300		Fluorescent Track Lighting Fixtures <small>(26 51 16)</small>			
26 51 16 00-0301	EA	2L 18W BX Track Fixture, Electronic Ballast		271.98	22.85
		Note: White or Black Finish, 120V.			
26 51 16 00-0302	EA	2L 39W BX Track Fixture, Electronic Ballast		280.74	22.85
		Note: White or Black Finish, 120V.			
26 51 16 00-0303	EA	2L 40W BX Track Fixture, Electronic Ballast		286.21	22.85
		Note: White or Black Finish, 120V.			
26 51 16 00-0304	EA	2L 50W BX Track Fixture, Electronic Ballast		198.47	22.85
		Note: White or Black Finish, 120V.			
26 51 16 00-0305	EA	2L, 55 Watt BX Track Fixture, Electronic Ballast		309.46	22.85
		Note: White or Black Finish, 120V.			
26 51 16 00-0306		Compact Fluorescent Track Lighting Fixtures <small>(26 51 16)</small>			
26 51 16 00-0307	EA	Compact Fluorescent Track Lighting Fixture		89.98	22.85
26 51 16 00-0308		Compact Fluorescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures <small>(26 51 16)</small>			
26 51 16 00-0309	EA	13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture		157.25	54.73
		<i>For Wall Mounted, Add</i>		6.02	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0310 EA 22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	161.26 6.02	54.73
26 51 16 00-0311 EA 28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture..... <i>For Wall Mounted, Add</i>	171.18 6.02	54.73
26 51 16 00-0312 Wet Location, Dust Resistant, Vapor Tight, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16)		
26 51 16 00-0313 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312)		
26 51 16 00-0314 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0315 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	274.63 21.43	58.26
26 51 16 00-0316 EA 2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	285.62 22.68	58.26
26 51 16 00-0317 EA 3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	434.70 39.75	58.26
26 51 16 00-0318 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW)	381.52	58.26
26 51 16 00-0319 EA 2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	600.41	58.26
26 51 16 00-0320 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day- Brite V2W) (26 51 16 00-0313) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0321 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	317.48	58.26
26 51 16 00-0322 EA 2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	319.92	58.26
26 51 16 00-0323 EA 3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	456.07	58.26
26 51 16 00-0324 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W)	384.06	58.26
26 51 16 00-0325 EA 2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W)	400.49	58.26
26 51 16 00-0326 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (26 51 16 00-0312) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0327 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW) (26 51 16 00-0326) Note: Includes high impact acrylic molded lens.		
26 51 16 00-0328 EA 2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	506.03 44.34	79.14
26 51 16 00-0329 EA 4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW)..... <i>For T5 Fixture Instead Of T8, Add</i>	522.81 46.26	79.14
26 51 16 00-0330 High Bay Fluorescent Fixtures (26 51 16)		
26 51 16 00-0331 (T8) Fluorescent, High Bay Fixtures (26 51 16 00-0330)		
26 51 16 00-0332 (T8) Fluorescent, High Bay Fixtures (Lithonia) (26 51 16 00-0331) Note: For 8' fixture, use two (2) 4' fixtures.		
26 51 16 00-0333 EA 2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	459.89 40.50 47.75 54.00	127.51
26 51 16 00-0334 EA 3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	482.71 40.50 47.75 54.00	141.27
26 51 16 00-0335 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	546.39 40.50 47.75 54.00	161.27
26 51 16 00-0336 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	644.04 40.50 47.75 54.00	169.89
26 51 16 00-0337 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	695.48 40.50 47.75 54.00	177.77
26 51 16 00-0338 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	442.68 40.50 47.75 54.00	161.27
26 51 16 00-0339 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	462.13 40.50 47.75 54.00	169.89
26 51 16 00-0340 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ)..... <i>For Wire Guard, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Acrylic Lens, Add</i>	522.66 40.50 47.75 54.00	177.77

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

Table with columns for CSI UOM, Description, Total Direct Unit Cost, and Demolition Unit Cost. Rows include (T5HO) Fluorescent, High Bay Fixtures and (T5HO) Fluorescent, High Bay Fixtures (Lithonia) with various sub-items like T5HO Lamps, Wire Guard, Polycarbonate Lens, and Acrylic Lens.

26 51 19 LED Interior Lighting (26 51)

Table with columns for CSI UOM, Description, Total Direct Unit Cost, and Demolition Unit Cost. Rows include LED Fixtures, Undercabinet LED Fixtures, and Surface Mount Linear/Striplight LED Fixtures with various sub-items and specifications.



Electrical	26	
Lighting	26 50	26
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0013 EA 4,600 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2).....	298.32	45.75
For >50 To 100, Deduct	-9.18	
For >100 To 250, Deduct	-16.64	
For >250 To 500, Deduct	-29.83	
For >500, Deduct	-43.03	
26 51 19 00-0014 Striplight LED Fixtures (Mobern) (26 51 19 00-0007)		
26 51 19 00-0015 EA 1,100 Lumens, 12 Watt, 2' Length, Chrome, LED Bracket Fixture (Mobern 7924LED12DMV30)	193.05	37.50
For >50 To 100, Deduct	-6.23	
For >100 To 250, Deduct	-11.06	
For >250 To 500, Deduct	-19.31	
For >500, Deduct	-27.55	
26 51 19 00-0016 Striplight LED Fixtures (Eaton) (26 51 19 00-0007)		
26 51 19 00-0017 EA 2,301 Lumens, 18 Watt, 4' Length, LED Strip Lighting (Eaton Lighting 4SNLED-LD4-22SL-LC-UNV-L840-CD1-U)	244.73	45.75
For >50 To 100, Deduct	-7.84	
For >100 To 250, Deduct	-13.96	
For >250 To 500, Deduct	-24.47	
For >500, Deduct	-34.99	
26 51 19 00-0018 EA 2,382 Lumens, 16 Watt, 4' Length, LED Clear Lensed Striplight (Cooper Industries 4SNLED-LD5-22SL-LC-UNV-L840-CD1-U)	231.89	45.75
For >50 To 100, Deduct	-7.52	
For >100 To 250, Deduct	-13.31	
For >250 To 500, Deduct	-23.19	
For >500, Deduct	-33.06	
26 51 19 00-0019 EA 2,382 Lumens, 16 Watt, 4' Length, Clear Lens, LED Striplight (Cooper Industries Metalux Series 4SNLED-LD5-22SL-LC-UNV-830-CD1-U)	244.73	45.75
For >50 To 100, Deduct	-7.84	
For >100 To 250, Deduct	-13.96	
For >250 To 500, Deduct	-24.47	
For >500, Deduct	-34.99	
26 51 19 00-0020 Lay-In/Troffer LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0021 Prismatic Lensed, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)		
26 51 19 00-0022 Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0021)		
26 51 19 00-0023 EA 1' x 4', 4,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4)	496.45	45.38
For Drywall Or Plaster Ceilings With Frame Kit, Add	42.01	
For >50 To 100, Deduct	-14.13	
For >100 To 250, Deduct	-26.54	
For >250 To 500, Deduct	-49.65	
For >500, Deduct	-72.75	
26 51 19 00-0024 EA 2' x 2', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2)	315.46	50.00
For Drywall Or Plaster Ceilings, Add	33.75	
For >50 To 100, Deduct	-9.76	
For >100 To 250, Deduct	-17.65	
For >250 To 500, Deduct	-31.55	
For >500, Deduct	-45.44	
26 51 19 00-0025 EA 2' x 4', 4,600 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4)	506.01	58.26
For Drywall Or Plaster Ceilings With Frame Kit, Add	47.18	
For >50 To 100, Deduct	-14.84	
For >100 To 250, Deduct	-27.49	
For >250 To 500, Deduct	-50.60	
For >500, Deduct	-73.71	
26 51 19 00-0026 Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera) (26 51 19 00-0021)		
26 51 19 00-0027 EA 1' x 4', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4)	706.84	45.38
For >50 To 100, Deduct	-19.39	
For >100 To 250, Deduct	-37.06	
For >250 To 500, Deduct	-70.68	
For >500, Deduct	-104.31	
26 51 19 00-0028 EA 2' x 2', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5)	504.20	50.00
For >50 To 100, Deduct	-14.48	
For >100 To 250, Deduct	-27.09	
For >250 To 500, Deduct	-50.42	
For >500, Deduct	-73.75	
26 51 19 00-0029 EA 2' x 4', 4,175 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4)	654.16	58.26
For >50 To 100, Deduct	-18.54	
For >100 To 250, Deduct	-34.90	
For >250 To 500, Deduct	-65.42	
For >500, Deduct	-95.94	
26 51 19 00-0030 Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED) (26 51 19 00-0021)		
26 51 19 00-0031 EA 2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E).....	339.14	50.00
For >50 To 100, Deduct	-10.35	
For >100 To 250, Deduct	-18.83	
For >250 To 500, Deduct	-33.91	
For >500, Deduct	-49.00	

26	26 Electrical
	26 50 Lighting
	26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0032	EA		3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E).....	373.22	50.00
			<i>For >50 To 100, Deduct</i>	-11.21	
			<i>For >100 To 250, Deduct</i>	-20.54	
			<i>For >250 To 500, Deduct</i>	-37.32	
			<i>For >500, Deduct</i>	-54.11	
26 51 19 00-0033	EA		3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40)	320.39	50.00
			<i>For >50 To 100, Deduct</i>	-9.89	
			<i>For >100 To 250, Deduct</i>	-17.89	
			<i>For >250 To 500, Deduct</i>	-32.04	
			<i>For >500, Deduct</i>	-46.18	
26 51 19 00-0034	EA		4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45)	320.39	50.00
			<i>For >50 To 100, Deduct</i>	-9.89	
			<i>For >100 To 250, Deduct</i>	-17.89	
			<i>For >250 To 500, Deduct</i>	-32.04	
			<i>For >500, Deduct</i>	-46.18	
26 51 19 00-0035	EA		4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50)	342.55	50.00
			<i>For >50 To 100, Deduct</i>	-10.44	
			<i>For >100 To 250, Deduct</i>	-19.00	
			<i>For >250 To 500, Deduct</i>	-34.26	
			<i>For >500, Deduct</i>	-49.51	
26 51 19 00-0036	Volumetric, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)				
26 51 19 00-0037	Volumetric, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0036)				
26 51 19 00-0038	EA		1' x 4', 2,500 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4)	291.18	45.38
			<i>For Drywall Or Plaster Ceilings, Add</i>	30.94	
			<i>For >50 To 100, Deduct</i>	-9.00	
			<i>For >100 To 250, Deduct</i>	-16.28	
			<i>For >250 To 500, Deduct</i>	-29.12	
			<i>For >500, Deduct</i>	-41.96	
26 51 19 00-0039	EA		2' x 2', 2,400 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	264.26	50.00
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	31.97	
			<i>For >50 To 100, Deduct</i>	-8.48	
			<i>For >100 To 250, Deduct</i>	-15.09	
			<i>For >250 To 500, Deduct</i>	-26.43	
			<i>For >500, Deduct</i>	-37.76	
26 51 19 00-0040	EA		2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	334.58	50.00
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	35.48	
			<i>For >50 To 100, Deduct</i>	-10.24	
			<i>For >100 To 250, Deduct</i>	-18.60	
			<i>For >250 To 500, Deduct</i>	-33.46	
			<i>For >500, Deduct</i>	-48.31	
26 51 19 00-0041	EA		2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2)	268.49	50.00
			<i>For >50 To 100, Deduct</i>	-8.59	
			<i>For >100 To 250, Deduct</i>	-15.30	
			<i>For >250 To 500, Deduct</i>	-26.85	
			<i>For >500, Deduct</i>	-38.40	
26 51 19 00-0042	EA		2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4)	295.46	58.26
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	36.65	
			<i>For >50 To 100, Deduct</i>	-9.57	
			<i>For >100 To 250, Deduct</i>	-16.96	
			<i>For >250 To 500, Deduct</i>	-29.55	
			<i>For >500, Deduct</i>	-42.13	
26 51 19 00-0043	EA		2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4)	309.93	58.26
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	37.37	
			<i>For >50 To 100, Deduct</i>	-9.94	
			<i>For >100 To 250, Deduct</i>	-17.68	
			<i>For >250 To 500, Deduct</i>	-30.99	
			<i>For >500, Deduct</i>	-44.30	
26 51 19 00-0044	EA		2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2VTL4)	437.68	58.26
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	43.76	
			<i>For >50 To 100, Deduct</i>	-13.13	
			<i>For >100 To 250, Deduct</i>	-24.07	
			<i>For >250 To 500, Deduct</i>	-43.77	
			<i>For >500, Deduct</i>	-63.46	
26 51 19 00-0045	Architectural, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)				
26 51 19 00-0046	Architectural, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0045) Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.				
26 51 19 00-0047	EA		2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	357.51	58.26
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	39.75	
			<i>For >50 To 100, Deduct</i>	-11.13	
			<i>For >100 To 250, Deduct</i>	-20.06	
			<i>For >250 To 500, Deduct</i>	-35.75	
			<i>For >500, Deduct</i>	-51.44	
26 51 19 00-0048	EA		4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	415.69	58.26
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	42.66	
			<i>For >50 To 100, Deduct</i>	-12.58	
			<i>For >100 To 250, Deduct</i>	-22.97	
			<i>For >250 To 500, Deduct</i>	-41.57	
			<i>For >500, Deduct</i>	-60.17	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0049 EA 6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	468.04	58.26
For Drywall Or Plaster Ceilings With Frame Kit, Add	45.28	
For >50 To 100, Deduct	-13.89	
For >100 To 250, Deduct	-25.59	
For >250 To 500, Deduct	-46.80	
For >500, Deduct	-68.02	
26 51 19 00-0050 Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series) <small>(26 51 19 00-0045)</small>		
<small>Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.</small>		
26 51 19 00-0051 EA 1' x 4', 2,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	370.89	58.26
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	136.12	
For Surface Mount, Add	188.93	
For >50 To 100, Deduct	-11.46	
For >100 To 250, Deduct	-20.73	
For >250 To 500, Deduct	-37.09	
For >500, Deduct	-53.45	
26 51 19 00-0052 EA 1' x 4', 3,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	397.76	58.26
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	136.12	
For Surface Mount, Add	188.93	
For >50 To 100, Deduct	-12.13	
For >100 To 250, Deduct	-22.08	
For >250 To 500, Deduct	-39.78	
For >500, Deduct	-57.48	
26 51 19 00-0053 EA 1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	397.76	58.26
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	136.12	
For Surface Mount, Add	188.93	
For >50 To 100, Deduct	-12.13	
For >100 To 250, Deduct	-22.08	
For >250 To 500, Deduct	-39.78	
For >500, Deduct	-57.48	
26 51 19 00-0054 EA 1' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	437.41	58.26
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	136.12	
For Surface Mount, Add	188.93	
For >50 To 100, Deduct	-13.12	
For >100 To 250, Deduct	-24.06	
For >250 To 500, Deduct	-43.74	
For >500, Deduct	-63.42	
26 51 19 00-0055 EA 2' x 2', 2,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™).....	343.19	50.00
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	118.51	
For Surface Mount, Add	177.47	
For >50 To 100, Deduct	-10.46	
For >100 To 250, Deduct	-19.03	
For >250 To 500, Deduct	-34.32	
For >500, Deduct	-49.60	
26 51 19 00-0056 EA 2' x 2', 3,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™).....	325.13	50.00
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	118.51	
For Surface Mount, Add	177.47	
For >50 To 100, Deduct	-10.00	
For >100 To 250, Deduct	-18.13	
For >250 To 500, Deduct	-32.51	
For >500, Deduct	-46.89	
26 51 19 00-0057 EA 2' x 4', 2,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™).....	385.79	58.26
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	138.68	
For Surface Mount, Add	205.56	
For >50 To 100, Deduct	-11.83	
For >100 To 250, Deduct	-21.48	
For >250 To 500, Deduct	-38.58	
For >500, Deduct	-55.68	
26 51 19 00-0058 EA 2' x 4', 3,100 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™).....	397.76	58.26
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	3.58	
For Drywall Or Plaster Ceilings, Add	138.68	
For Surface Mount, Add	205.56	
For >50 To 100, Deduct	-12.13	
For >100 To 250, Deduct	-22.08	
For >250 To 500, Deduct	-39.78	
For >500, Deduct	-57.48	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0059	EA		2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	397.76 3.58 138.68 205.56 -12.13 -22.08 -39.78 -57.48	58.26
26 51 19 00-0060	EA		2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24 LHE™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	498.82 3.58 138.68 205.56 -14.66 -27.13 -49.88 -72.64	58.26
26 51 19 00-0061	EA		2' x 4', 5,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) Note: CCT 30K to 50K <i>For Expanded Size Junction Box For Through Wiring, Add</i> <i>For Drywall Or Plaster Ceilings, Add</i> <i>For Surface Mount, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	437.41 3.58 138.68 205.56 -13.12 -24.06 -43.74 -63.42	58.26
26 51 19 00-0062			Architectural, Lay-In/Troffer LED Fixtures (Metalux®) <small>(26 51 19 00-0045)</small> Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0063	EA		2' x 2', 2,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	261.40 -8.41 -14.95 -26.14 -37.33	50.00
26 51 19 00-0064	EA		2' x 4', 4,700 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	344.23 -10.79 -19.40 -34.42 -49.45	58.26
26 51 19 00-0065			Architectural, Lay-In/Troffer LED Fixtures (Finelite) <small>(26 51 19 00-0045)</small> Note: Includes 3,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0066	EA		2' x 2', 4,301 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	339.86 -10.37 -18.87 -33.99 -49.10	50.00
26 51 19 00-0067	EA		2' x 4', 4,671 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	457.03 -13.61 -25.04 -45.70 -66.37	58.76
26 51 19 00-0068			Shadow Box Style, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>		
26 51 19 00-0069			Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL) <small>(26 51 19 00-0068)</small>		
26 51 19 00-0070	EA		2' x 2', 3,300 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2) <i>For Drywall Or Plaster Ceilings, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	527.43 33.75 -15.06 -28.25 -52.74 -77.24	50.00
26 51 19 00-0071	EA		2' x 4', 4,600 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4) <i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	715.67 57.66 -20.08 -37.97 -71.57 -105.16	58.26
26 51 19 00-0072			Panel Type, Lay-In/Troffer LED Fixtures <small>(26 51 19 00-0020)</small>		
26 51 19 00-0073			Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy) <small>(26 51 19 00-0072)</small>		
26 51 19 00-0074	EA		1' x 4', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	369.70 -11.43 -20.67 -36.97 -53.27	58.26



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0075	EA	2' x 2'	3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	383.22 -11.77 -21.35 -38.32 -55.30	58.26
26 51 19 00-0076	EA	2' x 4'	4,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	472.78 -14.01 -25.83 -47.28 -68.73	58.26
26 51 19 00-0077	EA	2' x 4'	5,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	472.78 -14.01 -25.83 -47.28 -68.73	58.26
26 51 19 00-0078			Panel Type, Lay-In/Troffer LED Fixtures (Sylvania) <small>(26 51 19 00-0072)</small>		
26 51 19 00-0079	EA	1' x 4'	3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/14G/WH)..... <i>For Surface Mounting Kit (Sylvania SMK1T1A/14A/WH), Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	206.40 44.41 -7.35 -12.51 -20.64 -28.77	58.26
26 51 19 00-0080	EA	2' x 2'	3,500 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/22G/WH)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	212.19 -7.49 -12.80 -21.22 -29.64	58.26
26 51 19 00-0081	EA	2' x 4'	3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/24G/WH)..... <i>For Surface Mounting Kit (Sylvania SMK1T1A/24A/WH)</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	214.84 55.52 -7.56 -12.93 -21.48 -30.04	58.26
26 51 19 00-0082	EA	2' x 4'	3,300 Lumens, 32 Watt, 3500K CCT, LED Edge Lite Panel With Kit (Sylvania PANELF1A/032UNVD835/24G/WH_SMKIT1A/24A/WH)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	465.03 -13.81 -25.44 -46.50 -67.57	58.26
26 51 19 00-0083			Surface Mount LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0084			Surface Mount, Volumetric LED Fixtures (Lithonia STL) <small>(26 51 19 00-0083)</small>		
26 51 19 00-0085	EA	2' Length	2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	308.81 -9.13 -16.85 -30.88 -44.92	37.50
26 51 19 00-0086	EA	4' Length	3,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	331.08 -10.00 -18.27 -33.11 -47.94	45.75
26 51 19 00-0087	EA	4' Length	4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	315.19 -9.60 -17.48 -31.52 -45.56	45.75
26 51 19 00-0088			Surface Mount, Wraparound LED Fixtures (Lithonia LBL) <small>(26 51 19 00-0083)</small>		
26 51 19 00-0089	EA	2' Length	2,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	235.01 -7.28 -13.16 -23.50 -33.85	37.50
26 51 19 00-0090	EA	4' Length	4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	307.19 -9.40 -17.08 -30.72 -44.36	45.75
26 51 19 00-0091			Surface Mount, Shadow Box Style LED Fixtures <small>(26 51 19 00-0083)</small>		
26 51 19 00-0092			Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX) <small>(26 51 19 00-0091)</small>		
26 51 19 00-0093	EA	2' x 2'	3,300 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	671.06 -18.65 -35.43 -67.11 -98.78	50.00

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0094 EA 2' x 4', 4,600 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4).....	859.30	58.26
For >50 To 100, Deduct	-23.67	
For >100 To 250, Deduct	-45.15	
For >250 To 500, Deduct	-85.93	
For >500, Deduct	-126.71	
26 51 19 00-0095 Surface Mount, Low Profile Fixtures (26 51 19 00-0083)		
26 51 19 00-0096 EA 6" Diameter, 993 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8538-90).....	105.21	34.26
For >50 To 100, Deduct	-4.34	
For >100 To 250, Deduct	-6.97	
For >250 To 500, Deduct	-10.52	
For >500, Deduct	-14.07	
26 51 19 00-0097 EA 6" Diameter, 1,215 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8569).....	89.28	34.26
For >50 To 100, Deduct	-3.94	
For >100 To 250, Deduct	-6.18	
For >250 To 500, Deduct	-8.93	
For >500, Deduct	-11.68	
26 51 19 00-0098 EA 13" Diameter, 1,400 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 4329).....	138.67	34.26
For >50 To 100, Deduct	-5.18	
For >100 To 250, Deduct	-8.65	
For >250 To 500, Deduct	-13.87	
For >500, Deduct	-19.09	
26 51 19 00-0099 EA 15" Diameter, 2,100 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting 4330).....	164.16	34.26
For >50 To 100, Deduct	-5.82	
For >100 To 250, Deduct	-9.92	
For >250 To 500, Deduct	-16.42	
For >500, Deduct	-22.91	
26 51 19 00-0100 Recessed LED Downlights (26 51 19 00-0001)		
26 51 19 00-0101 Recessed LED Downlights (26 51 19 00-0100)		
26 51 19 00-0102 Recessed LED Downlights (Lithonia) (26 51 19 00-0101)		
Note: Includes housing and trim.		
26 51 19 00-0103 EA 8" Diameter, 1,200 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....	357.98	60.21
For Dimming Driver And Sensor Switch nLight Dimming Relay, Add	73.00	
For >50 To 100, Deduct	-11.21	
For >100 To 250, Deduct	-20.16	
For >250 To 500, Deduct	-35.80	
For >500, Deduct	-51.44	
26 51 19 00-0104 EA 8" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....	387.07	60.21
For Dimming Driver And Sensor Switch nLight Dimming Relay, Add	73.00	
For >50 To 100, Deduct	-11.93	
For >100 To 250, Deduct	-21.61	
For >250 To 500, Deduct	-38.71	
For >500, Deduct	-55.80	
26 51 19 00-0105 Recessed LED Downlights (Portfolio®) (26 51 19 00-0101)		
Note: Includes housing and trim.		
26 51 19 00-0106 EA 4" Diameter, 1,300 Lumens, Recessed LED Downlight With Open Trim (Portfolio® LD413)	234.26	60.21
For >50 To 100, Deduct	-8.11	
For >100 To 250, Deduct	-13.97	
For >250 To 500, Deduct	-23.43	
For >500, Deduct	-32.88	
26 51 19 00-0107 Recessed LED Downlights (Gotham® EVO®) (26 51 19 00-0101)		
Note: Includes housing and trim.		
26 51 19 00-0108 EA 6" Diameter, 1,800 Lumens, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED).....	285.32	60.21
For >50 To 100, Deduct	-9.39	
For >100 To 250, Deduct	-16.52	
For >250 To 500, Deduct	-28.53	
For >500, Deduct	-40.54	
26 51 19 00-0109 EA 6" Diameter, 1,800 Lumens, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED).....	293.74	60.21
For >50 To 100, Deduct	-9.60	
For >100 To 250, Deduct	-16.94	
For >250 To 500, Deduct	-29.37	
For >500, Deduct	-41.80	
26 51 19 00-0110 EA 6" Diameter, 1,800 Lumens, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLED)	328.27	60.21
For >50 To 100, Deduct	-10.46	
For >100 To 250, Deduct	-18.67	
For >250 To 500, Deduct	-32.83	
For >500, Deduct	-46.98	
26 51 19 00-0111 EA 6" Diameter, 1,800 Lumens, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED).....	331.64	60.21
For >50 To 100, Deduct	-10.55	
For >100 To 250, Deduct	-18.84	
For >250 To 500, Deduct	-33.16	
For >500, Deduct	-47.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0112	EA	6" Diameter, 1,800 Lumens, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED).....	361.11	60.21
			<i>For >50 To 100, Deduct</i>	-11.29	
			<i>For >100 To 250, Deduct</i>	-20.31	
			<i>For >250 To 500, Deduct</i>	-36.11	
			<i>For >500, Deduct</i>	-51.91	
26 51	19 00-0113		Recessed LED Downlights (Lightolier) <small>(26 51 19 00-0101)</small>		
			Note: Includes housing and trim.		
26 51	19 00-0114	EA	4" Diameter, 500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L05DL).....	511.10	60.21
			<i>For >50 To 100, Deduct</i>	-15.04	
			<i>For >100 To 250, Deduct</i>	-27.81	
			<i>For >250 To 500, Deduct</i>	-51.11	
			<i>For >500, Deduct</i>	-74.41	
26 51	19 00-0115	EA	4" Diameter, 1,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L10DL).....	595.47	60.21
			<i>For >50 To 100, Deduct</i>	-17.14	
			<i>For >100 To 250, Deduct</i>	-32.03	
			<i>For >250 To 500, Deduct</i>	-59.55	
			<i>For >500, Deduct</i>	-87.06	
26 51	19 00-0116	EA	6" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	637.57	60.21
			<i>For >50 To 100, Deduct</i>	-18.20	
			<i>For >100 To 250, Deduct</i>	-34.14	
			<i>For >250 To 500, Deduct</i>	-63.76	
			<i>For >500, Deduct</i>	-93.38	
26 51	19 00-0117	EA	6" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL).....	637.57	60.21
			<i>For >50 To 100, Deduct</i>	-18.20	
			<i>For >100 To 250, Deduct</i>	-34.14	
			<i>For >250 To 500, Deduct</i>	-63.76	
			<i>For >500, Deduct</i>	-93.38	
26 51	19 00-0118	EA	7" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	658.71	60.21
			<i>For >50 To 100, Deduct</i>	-18.73	
			<i>For >100 To 250, Deduct</i>	-35.19	
			<i>For >250 To 500, Deduct</i>	-65.87	
			<i>For >500, Deduct</i>	-96.55	
26 51	19 00-0119	EA	7" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL).....	679.86	60.21
			<i>For >50 To 100, Deduct</i>	-19.25	
			<i>For >100 To 250, Deduct</i>	-36.25	
			<i>For >250 To 500, Deduct</i>	-67.99	
			<i>For >500, Deduct</i>	-99.72	
26 51	19 00-0120		Recessed LED Downlights (Cooper) <small>(26 51 19 00-0101)</small>		
26 51	19 00-0121	EA	600 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5606827).....	185.00	60.21
			<i>For >50 To 100, Deduct</i>	-6.88	
			<i>For >100 To 250, Deduct</i>	-11.51	
			<i>For >250 To 500, Deduct</i>	-18.50	
			<i>For >500, Deduct</i>	-25.49	
26 51	19 00-0122	EA	600 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5606830).....	185.00	60.21
			<i>For >50 To 100, Deduct</i>	-6.88	
			<i>For >100 To 250, Deduct</i>	-11.51	
			<i>For >250 To 500, Deduct</i>	-18.50	
			<i>For >500, Deduct</i>	-25.49	
26 51	19 00-0123	EA	600 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5606835).....	185.00	60.21
			<i>For >50 To 100, Deduct</i>	-6.88	
			<i>For >100 To 250, Deduct</i>	-11.51	
			<i>For >250 To 500, Deduct</i>	-18.50	
			<i>For >500, Deduct</i>	-25.49	
26 51	19 00-0124	EA	600 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5606840).....	185.00	60.21
			<i>For >50 To 100, Deduct</i>	-6.88	
			<i>For >100 To 250, Deduct</i>	-11.51	
			<i>For >250 To 500, Deduct</i>	-18.50	
			<i>For >500, Deduct</i>	-25.49	
26 51	19 00-0125	EA	900 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5609827).....	188.52	60.21
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-18.85	
			<i>For >500, Deduct</i>	-26.02	
26 51	19 00-0126	EA	900 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5609830).....	188.52	60.21
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-18.85	
			<i>For >500, Deduct</i>	-26.02	
26 51	19 00-0127	EA	900 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5609835).....	188.52	60.21
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-18.85	
			<i>For >500, Deduct</i>	-26.02	
26 51	19 00-0128	EA	900 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5609840).....	188.52	60.21
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 250, Deduct</i>	-11.68	
			<i>For >250 To 500, Deduct</i>	-18.85	
			<i>For >500, Deduct</i>	-26.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0129	EA	1,200 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5612827).....	236.33	60.21
			For >50 To 100, Deduct	-8.17	
			For >100 To 250, Deduct	-14.07	
			For >250 To 500, Deduct	-23.63	
			For >500, Deduct	-33.19	
26 51	19 00-0130	EA	1,200 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5612830).....	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0131	EA	1,200 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5612835).....	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0132	EA	1,200 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5612840).....	233.91	60.21
			For >50 To 100, Deduct	-8.11	
			For >100 To 250, Deduct	-13.95	
			For >250 To 500, Deduct	-23.39	
			For >500, Deduct	-32.83	
26 51	19 00-0133	EA	5" LED Trim, Polymer "Dead-Front", Shallow White Baffle And Flange (Cooper Halo 591WB).....	113.81	19.16
			For >50 To 100, Deduct	-3.56	
			For >100 To 250, Deduct	-6.41	
			For >250 To 500, Deduct	-11.38	
			For >500, Deduct	-16.35	
26 51	19 00-0134	EA	5" LED Trim, Specular Reflector And White Flange (Cooper Halo 592SC).....	70.06	19.16
			For >50 To 100, Deduct	-2.47	
			For >100 To 250, Deduct	-4.22	
			For >250 To 500, Deduct	-7.01	
			For >500, Deduct	-9.79	
26 51	19 00-0135	EA	5" LED Trim, Haze Reflector And White Flange (Cooper Halo 592H).....	88.89	19.16
			For >50 To 100, Deduct	-2.94	
			For >100 To 250, Deduct	-5.16	
			For >250 To 500, Deduct	-8.89	
			For >500, Deduct	-12.62	
26 51	19 00-0136	EA	5" LED Trim, White Reflector And Flange (Cooper Halo 592W).....	73.84	19.16
			For >50 To 100, Deduct	-2.56	
			For >100 To 250, Deduct	-4.41	
			For >250 To 500, Deduct	-7.38	
			For >500, Deduct	-10.36	
26 51	19 00-0137	EA	5" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 593WB).....	58.46	19.16
			For >50 To 100, Deduct	-2.18	
			For >100 To 250, Deduct	-3.64	
			For >250 To 500, Deduct	-5.85	
			For >500, Deduct	-8.05	
26 51	19 00-0138	EA	5" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 593BB).....	73.17	19.16
			For >50 To 100, Deduct	-2.55	
			For >100 To 250, Deduct	-4.38	
			For >250 To 500, Deduct	-7.32	
			For >500, Deduct	-10.26	
26 51	19 00-0139	EA	5" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 593SNB).....	82.13	19.16
			For >50 To 100, Deduct	-2.77	
			For >100 To 250, Deduct	-4.83	
			For >250 To 500, Deduct	-8.21	
			For >500, Deduct	-11.60	
26 51	19 00-0140	EA	5" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 593TBZB).....	90.11	19.16
			For >50 To 100, Deduct	-2.97	
			For >100 To 250, Deduct	-5.22	
			For >250 To 500, Deduct	-9.01	
			For >500, Deduct	-12.80	
26 51	19 00-0141	EA	5" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 594WB).....	105.70	19.16
			For >50 To 100, Deduct	-3.36	
			For >100 To 250, Deduct	-6.00	
			For >250 To 500, Deduct	-10.57	
			For >500, Deduct	-15.14	
26 51	19 00-0142	EA	5" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 594SNB).....	106.21	19.16
			For >50 To 100, Deduct	-3.37	
			For >100 To 250, Deduct	-6.03	
			For >250 To 500, Deduct	-10.62	
			For >500, Deduct	-15.21	
26 51	19 00-0143	EA	5" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 594TBZB).....	103.97	19.16
			For >50 To 100, Deduct	-3.32	
			For >100 To 250, Deduct	-5.92	
			For >250 To 500, Deduct	-10.40	
			For >500, Deduct	-14.88	
26 51	19 00-0144	EA	5" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 595WW).....	129.55	19.16
			For >50 To 100, Deduct	-3.96	
			For >100 To 250, Deduct	-7.20	
			For >250 To 500, Deduct	-12.96	
			For >500, Deduct	-18.71	
26 51	19 00-0145	EA	5" LED Trim, White Shallow Baffle And Flange (Cooper Halo 596WB).....	59.00	19.16
			For >50 To 100, Deduct	-2.19	
			For >100 To 250, Deduct	-3.67	
			For >250 To 500, Deduct	-5.90	
			For >500, Deduct	-8.13	



			Electrical	26
			Lighting	26 50
			Interior Lighting	26 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0146 EA 6" LED Trim, Polymer "Dead-Front", White Shallow Baffle And Flange (Cooper Halo 691WB).....	110.07	19.16
For >50 To 100, Deduct	-3.47	
For >100 To 250, Deduct	-6.22	
For >250 To 500, Deduct	-11.01	
For >500, Deduct	-15.79	
26 51 19 00-0147 EA 6" LED Trim, Specular Reflector And White Flange (Cooper Halo 692SC)	92.85	19.16
For >50 To 100, Deduct	-3.04	
For >100 To 250, Deduct	-5.36	
For >250 To 500, Deduct	-9.29	
For >500, Deduct	-13.21	
26 51 19 00-0148 EA 6" LED Trim, Haze Reflector And White Flange (Cooper Halo 692H)	86.81	19.16
For >50 To 100, Deduct	-2.89	
For >100 To 250, Deduct	-5.06	
For >250 To 500, Deduct	-8.68	
For >500, Deduct	-12.30	
26 51 19 00-0149 EA 6" LED Trim, White Reflector And Flange (Cooper Halo 692W).....	76.85	19.16
For >50 To 100, Deduct	-2.64	
For >100 To 250, Deduct	-4.56	
For >250 To 500, Deduct	-7.69	
For >500, Deduct	-10.81	
26 51 19 00-0150 EA 6" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 693WB)	77.57	19.16
For >50 To 100, Deduct	-2.66	
For >100 To 250, Deduct	-4.60	
For >250 To 500, Deduct	-7.76	
For >500, Deduct	-10.92	
26 51 19 00-0151 EA 6" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 693BB).....	83.96	19.16
For >50 To 100, Deduct	-2.82	
For >100 To 250, Deduct	-4.92	
For >250 To 500, Deduct	-8.40	
For >500, Deduct	-11.88	
26 51 19 00-0152 EA 6" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 693SNB).....	76.46	19.16
For >50 To 100, Deduct	-2.63	
For >100 To 250, Deduct	-4.54	
For >250 To 500, Deduct	-7.65	
For >500, Deduct	-10.75	
26 51 19 00-0153 EA 6" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 693TBZB)	96.84	19.16
For >50 To 100, Deduct	-3.14	
For >100 To 250, Deduct	-5.56	
For >250 To 500, Deduct	-9.68	
For >500, Deduct	-13.81	
26 51 19 00-0154 EA 6" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 694WB).....	105.44	19.16
For >50 To 100, Deduct	-3.35	
For >100 To 250, Deduct	-5.99	
For >250 To 500, Deduct	-10.54	
For >500, Deduct	-15.10	
26 51 19 00-0155 EA 6" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 694SNB)	134.03	19.16
For >50 To 100, Deduct	-4.07	
For >100 To 250, Deduct	-7.42	
For >250 To 500, Deduct	-13.40	
For >500, Deduct	-19.39	
26 51 19 00-0156 EA 6" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 694TBZB)	130.44	19.16
For >50 To 100, Deduct	-3.98	
For >100 To 250, Deduct	-7.24	
For >250 To 500, Deduct	-13.04	
For >500, Deduct	-18.85	
26 51 19 00-0157 EA 6" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 695WW).....	132.02	19.16
For >50 To 100, Deduct	-4.02	
For >100 To 250, Deduct	-7.32	
For >250 To 500, Deduct	-13.20	
For >500, Deduct	-19.08	
26 51 19 00-0158 EA 6" LED Trim, White Shallow Baffle And Flange (Cooper Halo 696WB)	78.43	19.16
For >50 To 100, Deduct	-2.68	
For >100 To 250, Deduct	-4.64	
For >250 To 500, Deduct	-7.84	
For >500, Deduct	-11.05	
26 51 19 00-0159 EA 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H750ICAT)	69.26	41.05
For >50 To 100, Deduct	-3.27	
For >100 To 250, Deduct	-5.00	
For >250 To 500, Deduct	-6.93	
For >500, Deduct	-8.85	
26 51 19 00-0160 EA 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H750RICAT)	76.26	41.05
For >50 To 100, Deduct	-3.45	
For >100 To 250, Deduct	-5.35	
For >250 To 500, Deduct	-7.63	
For >500, Deduct	-9.90	
26 51 19 00-0161 EA 6" LED, Non-IC, Air-Tite, New Construction Housing (Cooper Halo H750T)	73.45	41.05
For >50 To 100, Deduct	-3.38	
For >100 To 250, Deduct	-5.21	
For >250 To 500, Deduct	-7.35	
For >500, Deduct	-9.48	
26 51 19 00-0162 EA 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing (Cooper Halo H750TCP)	101.04	41.05
For >50 To 100, Deduct	-4.07	
For >100 To 250, Deduct	-6.59	
For >250 To 500, Deduct	-10.10	
For >500, Deduct	-13.62	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0163 EA 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (Cooper Halo H2750ICAT)	97.80	41.05
For >50 To 100, Deduct	-3.98	
For >100 To 250, Deduct	-6.43	
For >250 To 500, Deduct	-9.78	
For >500, Deduct	-13.13	
26 51 19 00-0164 EA 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H7ICAT)	77.21	41.05
For >50 To 100, Deduct	-3.47	
For >100 To 250, Deduct	-5.40	
For >250 To 500, Deduct	-7.72	
For >500, Deduct	-10.04	
26 51 19 00-0165 EA 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H7RICAT)	81.92	41.05
For >50 To 100, Deduct	-3.59	
For >100 To 250, Deduct	-5.64	
For >250 To 500, Deduct	-8.19	
For >500, Deduct	-10.75	
26 51 19 00-0166 EA 6" Insulated Ceiling, New Construction Housing (Cooper Halo H7ICT)	76.22	41.05
For >50 To 100, Deduct	-3.44	
For >100 To 250, Deduct	-5.35	
For >250 To 500, Deduct	-7.62	
For >500, Deduct	-9.89	
26 51 19 00-0167 EA 6" Insulated Ceiling, Remodel Housing (Cooper Halo H7RICT)	81.39	41.05
For >50 To 100, Deduct	-3.57	
For >100 To 250, Deduct	-5.61	
For >250 To 500, Deduct	-8.14	
For >500, Deduct	-10.67	
26 51 19 00-0168 EA 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo H7ICATNB)	77.09	41.05
For >50 To 100, Deduct	-3.47	
For >100 To 250, Deduct	-5.39	
For >250 To 500, Deduct	-7.71	
For >500, Deduct	-10.02	
26 51 19 00-0169 EA 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo H7ICTNB)	76.60	41.05
For >50 To 100, Deduct	-3.45	
For >100 To 250, Deduct	-5.37	
For >250 To 500, Deduct	-7.66	
For >500, Deduct	-9.95	
26 51 19 00-0170 EA 6" Non-IC, New Construction Housing (Cooper Halo H7T)	80.33	41.05
For >50 To 100, Deduct	-3.55	
For >100 To 250, Deduct	-5.56	
For >250 To 500, Deduct	-8.03	
For >500, Deduct	-10.51	
26 51 19 00-0171 EA 6" Non-IC, Remodel Housing (Cooper Halo H7RT)	82.35	41.05
For >50 To 100, Deduct	-3.60	
For >100 To 250, Deduct	-5.66	
For >250 To 500, Deduct	-8.24	
For >500, Deduct	-10.81	
26 51 19 00-0172 EA 6" Non-IC, New Construction Housing, No Socket Bracket (Cooper Halo H7TNB)	82.99	41.05
For >50 To 100, Deduct	-3.61	
For >100 To 250, Deduct	-5.69	
For >250 To 500, Deduct	-8.30	
For >500, Deduct	-10.91	
26 51 19 00-0173 EA 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing (Cooper Halo H7TCP)	114.24	41.05
For >50 To 100, Deduct	-4.40	
For >100 To 250, Deduct	-7.25	
For >250 To 500, Deduct	-11.42	
For >500, Deduct	-15.60	
26 51 19 00-0174 EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo H7UICT)	106.39	41.05
For >50 To 100, Deduct	-4.20	
For >100 To 250, Deduct	-6.86	
For >250 To 500, Deduct	-10.64	
For >500, Deduct	-14.42	
26 51 19 00-0175 EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo H7UICAT)	107.30	41.05
For >50 To 100, Deduct	-4.22	
For >100 To 250, Deduct	-6.90	
For >250 To 500, Deduct	-10.73	
For >500, Deduct	-14.56	
26 51 19 00-0176 EA 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI700AT)	112.55	41.05
For >50 To 100, Deduct	-4.35	
For >100 To 250, Deduct	-7.17	
For >250 To 500, Deduct	-11.26	
For >500, Deduct	-15.34	
26 51 19 00-0177 EA 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI700RAT)	112.55	41.05
For >50 To 100, Deduct	-4.35	
For >100 To 250, Deduct	-7.17	
For >250 To 500, Deduct	-11.26	
For >500, Deduct	-15.34	
26 51 19 00-0178 EA 6" Insulated Ceiling, New Construction Housing (Cooper Halo EI700)	112.55	41.05
For >50 To 100, Deduct	-4.35	
For >100 To 250, Deduct	-7.17	
For >250 To 500, Deduct	-11.26	
For >500, Deduct	-15.34	
26 51 19 00-0179 EA 6" Insulating Ceiling, Remodel Housing (Cooper Halo EI700R)	112.55	41.05
For >50 To 100, Deduct	-4.35	
For >100 To 250, Deduct	-7.17	
For >250 To 500, Deduct	-11.26	
For >500, Deduct	-15.34	



Electrical	26
Lighting	26 50
Interior Lighting	26 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0180 EA 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo EI700ATNB).....	112.55	41.05
<i>For >50 To 100, Deduct</i>	-4.35	
<i>For >100 To 250, Deduct</i>	-7.17	
<i>For >250 To 500, Deduct</i>	-11.26	
<i>For >500, Deduct</i>	-15.34	
26 51 19 00-0181 EA 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo EI700NB).....	98.83	41.05
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100 To 250, Deduct</i>	-6.48	
<i>For >250 To 500, Deduct</i>	-9.88	
<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0182 EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo EI700U).....	98.83	41.05
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100 To 250, Deduct</i>	-6.48	
<i>For >250 To 500, Deduct</i>	-9.88	
<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0183 EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo EI700UAT).....	98.83	41.05
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100 To 250, Deduct</i>	-6.48	
<i>For >250 To 500, Deduct</i>	-9.88	
<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0184 EA 6" Non-IC, New Construction Housing (Cooper Halo ET700).....	98.83	41.05
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100 To 250, Deduct</i>	-6.48	
<i>For >250 To 500, Deduct</i>	-9.88	
<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0185 EA 6" Non-IC, Remodel Housing (Cooper Halo ET700R).....	98.83	41.05
<i>For >50 To 100, Deduct</i>	-4.01	
<i>For >100 To 250, Deduct</i>	-6.48	
<i>For >250 To 500, Deduct</i>	-9.88	
<i>For >500, Deduct</i>	-13.29	
26 51 19 00-0186 EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H27ICAT).....	99.83	41.05
<i>For >50 To 100, Deduct</i>	-4.04	
<i>For >100 To 250, Deduct</i>	-6.53	
<i>For >250 To 500, Deduct</i>	-9.98	
<i>For >500, Deduct</i>	-13.44	
26 51 19 00-0187 EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H27RICAT).....	115.24	41.05
<i>For >50 To 100, Deduct</i>	-4.42	
<i>For >100 To 250, Deduct</i>	-7.30	
<i>For >250 To 500, Deduct</i>	-11.52	
<i>For >500, Deduct</i>	-15.75	
26 51 19 00-0188 EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo H27ICT).....	99.83	41.05
<i>For >50 To 100, Deduct</i>	-4.04	
<i>For >100 To 250, Deduct</i>	-6.53	
<i>For >250 To 500, Deduct</i>	-9.98	
<i>For >500, Deduct</i>	-13.44	
26 51 19 00-0189 EA 6" Shallow, Insulated Ceiling, Remodel Housing (Cooper Halo H27RICT).....	110.89	41.05
<i>For >50 To 100, Deduct</i>	-4.31	
<i>For >100 To 250, Deduct</i>	-7.08	
<i>For >250 To 500, Deduct</i>	-11.09	
<i>For >500, Deduct</i>	-15.09	
26 51 19 00-0190 EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo H27T).....	93.59	41.05
<i>For >50 To 100, Deduct</i>	-3.88	
<i>For >100 To 250, Deduct</i>	-6.22	
<i>For >250 To 500, Deduct</i>	-9.36	
<i>For >500, Deduct</i>	-12.50	
26 51 19 00-0191 EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo H27RT).....	95.11	41.05
<i>For >50 To 100, Deduct</i>	-3.92	
<i>For >100 To 250, Deduct</i>	-6.29	
<i>For >250 To 500, Deduct</i>	-9.51	
<i>For >500, Deduct</i>	-12.73	
26 51 19 00-0192 EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo EI2700AT).....	105.88	41.05
<i>For >50 To 100, Deduct</i>	-4.19	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-10.59	
<i>For >500, Deduct</i>	-14.34	
26 51 19 00-0193 EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo EI2700).....	105.88	41.05
<i>For >50 To 100, Deduct</i>	-4.19	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-10.59	
<i>For >500, Deduct</i>	-14.34	
26 51 19 00-0194 EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI2700R).....	105.88	41.05
<i>For >50 To 100, Deduct</i>	-4.19	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-10.59	
<i>For >500, Deduct</i>	-14.34	
26 51 19 00-0195 EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo ET2700).....	105.88	41.05
<i>For >50 To 100, Deduct</i>	-4.19	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-10.59	
<i>For >500, Deduct</i>	-14.34	
26 51 19 00-0196 EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo ET2700R).....	105.88	41.05
<i>For >50 To 100, Deduct</i>	-4.19	
<i>For >100 To 250, Deduct</i>	-6.83	
<i>For >250 To 500, Deduct</i>	-10.59	
<i>For >500, Deduct</i>	-14.34	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0197 EA 6" Retrofit Enclosure, Non-IC, BX Whip (Cooper Halo ML7BXRFK)	89.80	19.16
For >50 To 100, Deduct	-2.96	
For >100 To 250, Deduct	-5.21	
For >250 To 500, Deduct	-8.98	
For >500, Deduct	-12.75	
26 51 19 00-0198 EA 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface (Cooper Halo ML7E26RFK).....	92.93	19.16
For >50 To 100, Deduct	-3.04	
For >100 To 250, Deduct	-5.37	
For >250 To 500, Deduct	-9.29	
For >500, Deduct	-13.22	
26 51 19 00-0199 EA 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H550ICAT)	86.78	41.05
For >50 To 100, Deduct	-3.71	
For >100 To 250, Deduct	-5.88	
For >250 To 500, Deduct	-8.68	
For >500, Deduct	-11.48	
26 51 19 00-0200 EA 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H550RICAT).....	87.15	41.05
For >50 To 100, Deduct	-3.72	
For >100 To 250, Deduct	-5.90	
For >250 To 500, Deduct	-8.72	
For >500, Deduct	-11.53	
26 51 19 00-0201 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H5ICAT).....	80.65	41.05
For >50 To 100, Deduct	-3.56	
For >100 To 250, Deduct	-5.57	
For >250 To 500, Deduct	-8.07	
For >500, Deduct	-10.56	
26 51 19 00-0202 EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H5RICAT)	83.85	41.05
For >50 To 100, Deduct	-3.64	
For >100 To 250, Deduct	-5.73	
For >250 To 500, Deduct	-8.39	
For >500, Deduct	-11.04	
26 51 19 00-0203 EA 5" Non-IC, New Construction Housing (Cooper Halo H5T)	82.80	41.05
For >50 To 100, Deduct	-3.61	
For >100 To 250, Deduct	-5.68	
For >250 To 500, Deduct	-8.28	
For >500, Deduct	-10.88	
26 51 19 00-0204 EA 5" Non-IC, Remodel Housing (Cooper Halo H5RT).....	83.77	41.05
For >50 To 100, Deduct	-3.63	
For >100 To 250, Deduct	-5.73	
For >250 To 500, Deduct	-8.38	
For >500, Deduct	-11.03	
26 51 19 00-0205 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI500AT).....	97.47	41.05
For >50 To 100, Deduct	-3.98	
For >100 To 250, Deduct	-6.41	
For >250 To 500, Deduct	-9.75	
For >500, Deduct	-13.08	
26 51 19 00-0206 EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI500RAT).....	98.21	41.05
For >50 To 100, Deduct	-3.99	
For >100 To 250, Deduct	-6.45	
For >250 To 500, Deduct	-9.82	
For >500, Deduct	-13.19	
26 51 19 00-0207 EA 5" Non-IC, New Construction Housing (Cooper Halo ET500).....	101.88	41.05
For >50 To 100, Deduct	-4.09	
For >100 To 250, Deduct	-6.63	
For >250 To 500, Deduct	-10.19	
For >500, Deduct	-13.74	
26 51 19 00-0208 EA 5" Non-IC, Remodel Housing (Cooper Halo ET500R).....	104.47	41.05
For >50 To 100, Deduct	-4.15	
For >100 To 250, Deduct	-6.76	
For >250 To 500, Deduct	-10.45	
For >500, Deduct	-14.13	
26 51 19 00-0209 EA 5" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H25ICAT).....	115.80	41.05
For >50 To 100, Deduct	-4.43	
For >100 To 250, Deduct	-7.33	
For >250 To 500, Deduct	-11.58	
For >500, Deduct	-15.83	
26 51 19 00-0210 Recessed LED Downlights (Maxlite DLR) <small>(26 51 19 00-0101)</small>		
26 51 19 00-0211 EA 4" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR410)	167.13	60.21
For >50 To 100, Deduct	-6.44	
For >100 To 250, Deduct	-10.61	
For >250 To 500, Deduct	-16.71	
For >500, Deduct	-22.81	
26 51 19 00-0212 EA 4" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR415)	169.10	60.21
For >50 To 100, Deduct	-6.49	
For >100 To 250, Deduct	-10.71	
For >250 To 500, Deduct	-16.91	
For >500, Deduct	-23.11	
26 51 19 00-0213 EA 4" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR420)	175.01	60.21
For >50 To 100, Deduct	-6.63	
For >100 To 250, Deduct	-11.01	
For >250 To 500, Deduct	-17.50	
For >500, Deduct	-23.99	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0214	EA		6" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR615)	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51 19 00-0215	EA		6" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR620)	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51 19 00-0216	EA		6" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR630)	163.18	60.21
			<i>For >50 To 100, Deduct</i>	-6.34	
			<i>For >100 To 250, Deduct</i>	-10.42	
			<i>For >250 To 500, Deduct</i>	-16.32	
			<i>For >500, Deduct</i>	-22.22	
26 51 19 00-0217	EA		8" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR810)	175.01	60.21
			<i>For >50 To 100, Deduct</i>	-6.63	
			<i>For >100 To 250, Deduct</i>	-11.01	
			<i>For >250 To 500, Deduct</i>	-17.50	
			<i>For >500, Deduct</i>	-23.99	
26 51 19 00-0218	EA		8" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR815)	176.98	60.21
			<i>For >50 To 100, Deduct</i>	-6.68	
			<i>For >100 To 250, Deduct</i>	-11.11	
			<i>For >250 To 500, Deduct</i>	-17.70	
			<i>For >500, Deduct</i>	-24.29	
26 51 19 00-0219	EA		8" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR820)	180.91	60.21
			<i>For >50 To 100, Deduct</i>	-6.78	
			<i>For >100 To 250, Deduct</i>	-11.30	
			<i>For >250 To 500, Deduct</i>	-18.09	
			<i>For >500, Deduct</i>	-24.88	
26 51 19 00-0220	EA		8" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR830)	192.73	60.21
			<i>For >50 To 100, Deduct</i>	-7.08	
			<i>For >100 To 250, Deduct</i>	-11.89	
			<i>For >250 To 500, Deduct</i>	-19.27	
			<i>For >500, Deduct</i>	-26.65	
26 51 19 00-0221	EA		8" Diameter, 5,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR850)	208.49	60.21
			<i>For >50 To 100, Deduct</i>	-7.47	
			<i>For >100 To 250, Deduct</i>	-12.68	
			<i>For >250 To 500, Deduct</i>	-20.85	
			<i>For >500, Deduct</i>	-29.02	
26 51 19 00-0222 Recessed LED Downlight Retrofits And Trim (CREE®)					
<i>(26 51 19 00-0100)</i>					
26 51 19 00-0223 Recessed LED Downlight Retrofits (CREE®)					
<i>(26 51 19 00-0222)</i>					
Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps.					
26 51 19 00-0224	EA		4" Diameter, 575 Lumens, Recessed LED Downlight Retrofit (Cree® CR4-575L)	89.90	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100 To 250, Deduct</i>	-5.35	
			<i>For >250 To 500, Deduct</i>	-8.99	
			<i>For >500, Deduct</i>	-12.63	
26 51 19 00-0225	EA		6" Diameter, 625 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-625L)	80.87	
			<i>For >50 To 100, Deduct</i>	-2.88	
			<i>For >100 To 250, Deduct</i>	-4.90	
			<i>For >250 To 500, Deduct</i>	-8.09	
			<i>For >500, Deduct</i>	-11.28	
26 51 19 00-0226	EA		6" Diameter, 800 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-800L)	98.93	
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100 To 250, Deduct</i>	-5.80	
			<i>For >250 To 500, Deduct</i>	-9.89	
			<i>For >500, Deduct</i>	-13.98	
26 51 19 00-0227	EA		6" Diameter, 650 Lumens, Recessed LED Downlight Retrofit (Cree® LR6C-277)	109.46	
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100 To 250, Deduct</i>	-6.33	
			<i>For >250 To 500, Deduct</i>	-10.95	
			<i>For >500, Deduct</i>	-15.56	
26 51 19 00-0228	EA		6" Diameter, 1,000 Lumens, Deep Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR)	118.49	
			<i>For >50 To 100, Deduct</i>	-3.82	
			<i>For >100 To 250, Deduct</i>	-6.78	
			<i>For >250 To 500, Deduct</i>	-11.85	
			<i>For >500, Deduct</i>	-16.92	
26 51 19 00-0229 Recessed LED Downlight Retrofits Trim (CREE®)					
<i>(26 51 19 00-0222)</i>					
Note: For installation in standard recessed IC or non-IC housings. Excludes housing and lamp.					
26 51 19 00-0230	EA		6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX)	35.56	9.58
			<i>For >50 To 100, Deduct</i>	-1.40	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-3.56	
			<i>For >500, Deduct</i>	-4.82	
26 51 19 00-0231	EA		6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP)	41.59	9.58
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100 To 250, Deduct</i>	-2.59	
			<i>For >250 To 500, Deduct</i>	-4.16	
			<i>For >500, Deduct</i>	-5.73	

26	26 Electrical
	26 50 Lighting
	26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0232	EA	6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB).....	37.07	9.58
			<i>For >50 To 100, Deduct</i>	-1.44	
			<i>For >100 To 250, Deduct</i>	-2.37	
			<i>For >250 To 500, Deduct</i>	-3.71	
			<i>For >500, Deduct</i>	-5.05	
26 51 19 00-0233 Recessed LED Downlight Fixture Housings (CREE®) (26 51 19 00-0222)					
Note: Excludes lamp and trim.					
26 51	19 00-0234	EA	6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6)	97.70	41.05
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100 To 250, Deduct</i>	-6.42	
			<i>For >250 To 500, Deduct</i>	-9.77	
			<i>For >500, Deduct</i>	-13.12	
26 51	19 00-0235	EA	6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6).....	76.61	41.05
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100 To 250, Deduct</i>	-5.37	
			<i>For >250 To 500, Deduct</i>	-7.66	
			<i>For >500, Deduct</i>	-9.95	
26 51 19 00-0236 Can Retrofit Or Surface Mount, LED Downlights (26 51 19 00-0100)					
26 51	19 00-0237	EA	6" Diameter, 15 Watt, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6)	100.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.91	
			<i>For >100 To 250, Deduct</i>	-6.41	
			<i>For >250 To 500, Deduct</i>	-10.00	
			<i>For >500, Deduct</i>	-13.59	
26 51	19 00-0238	EA	4" Diameter, 7 Watt, Can Retrofit, LED Downlight (Green Creative0 1-811-D).....	83.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-8.30	
			<i>For >500, Deduct</i>	-11.04	
26 51	19 00-0239	EA	6" Diameter, 9.5 Watt, Can Retrofit, LED Downlight (Green Creative0 1-808-D).....	83.00	37.50
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-8.30	
			<i>For >500, Deduct</i>	-11.04	
26 51	19 00-0240	EA	6" Diameter, 8.9 Watt, Can Retrofit, LED Downlight (Lithonia 6BP)	126.44	37.50
			<i>For Recessed IC/Non-IC Rated Housing For New Construction, Add</i>	48.18	
			<i>For >50 To 100, Deduct</i>	-4.57	
			<i>For >100 To 250, Deduct</i>	-7.73	
			<i>For >250 To 500, Deduct</i>	-12.64	
			<i>For >500, Deduct</i>	-17.56	
26 51	19 00-0241	EA	4" Diameter, 8 Watt, 600 Lumens, Retrofit LED Downlight (Sylvania LED/RT4/550/840)	71.04	37.50
			<i>For >50 To 100, Deduct</i>	-3.18	
			<i>For >100 To 250, Deduct</i>	-4.96	
			<i>For >250 To 500, Deduct</i>	-7.10	
			<i>For >500, Deduct</i>	-9.25	
26 51	19 00-0242	EA	5" Diameter, 10 Watt, 700 Lumens, Retrofit LED Downlight (Sylvania LED/RT5/6/625/840).....	76.98	37.50
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100 To 250, Deduct</i>	-5.26	
			<i>For >250 To 500, Deduct</i>	-7.70	
			<i>For >500, Deduct</i>	-10.14	
26 51	19 00-0243	EA	6" Diameter, 800 Lumens, 10 Watt, Retrofit LED Wallwash Downlight (Indy Lighting LRT6-08LM)	752.70	37.50
			<i>For >50 To 100, Deduct</i>	-20.22	
			<i>For >100 To 250, Deduct</i>	-39.04	
			<i>For >250 To 500, Deduct</i>	-75.27	
			<i>For >500, Deduct</i>	-111.50	
26 51 19 00-0244 Wall Mount LED Cylinder Downlight (26 51 19 00-0001)					
26 51	19 00-0245	EA	9" Diameter, 2,200 Lumens, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9).....	368.42	58.26
			<i>For >50 To 100, Deduct</i>	-11.40	
			<i>For >100 To 250, Deduct</i>	-20.61	
			<i>For >250 To 500, Deduct</i>	-36.84	
			<i>For >500, Deduct</i>	-53.08	
26 51 19 00-0246 Wall Sconce And Wall Wash LED Fixtures (26 51 19 00-0001)					
26 51 19 00-0247 LED Wall Sconce Fixtures (Hudson Valley Lighting) (26 51 19 00-0246)					
26 51	19 00-0248	EA	2-1/2" Diameter x 15-1/2" High, Polished Nickel, LED Wall Sconce (Hudson Valley Lighting SHAW 1200-PN)	445.90	54.73
			<i>For >50 To 100, Deduct</i>	-13.20	
			<i>For >100 To 250, Deduct</i>	-24.35	
			<i>For >250 To 500, Deduct</i>	-44.59	
			<i>For >500, Deduct</i>	-64.83	
26 51 19 00-0249 LED Wall Sconce Fixtures (Kichler) (26 51 19 00-0246)					



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0250 EA 6" High x 11.75" Wide x 3.5" Deep, 900 Lumens, 15 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Kichler 10790NILED).....	258.25	54.73
For >50 To 100, Deduct	-8.51	
For >100 To 250, Deduct	-14.97	
For >250 To 500, Deduct	-25.83	
For >500, Deduct	-36.69	
26 51 19 00-0251 LED Wall Sconce Fixtures (Metalux) (26 51 19 00-0246)		
26 51 19 00-0252 EA 9.875" High x 7.125" Wide x 3.5" Deep, 9 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Metalux AFX VN7S071009L30ENBN).....	151.95	54.73
For >50 To 100, Deduct	-5.85	
For >100 To 250, Deduct	-9.65	
For >250 To 500, Deduct	-15.20	
For >500, Deduct	-20.74	
26 51 19 00-0253 EA 5" LED, Cape Sconce Wall Light, White (AFX CAPW050804L30ENWH)	143.22	54.73
For >50 To 100, Deduct	-5.63	
For >100 To 250, Deduct	-9.21	
For >250 To 500, Deduct	-14.32	
For >500, Deduct	-19.43	
26 51 19 00-0254 Concealed Continuous LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0255 Concealed Continuous LED Fixtures (Fraqtir™ S301) (26 51 19 00-0254)		
26 51 19 00-0256 LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301)	579.25	6.25
For >50 To 100, Deduct	-14.79	
For >100 To 250, Deduct	-29.28	
For >250 To 500, Deduct	-57.93	
For >500, Deduct	-86.58	
26 51 19 00-0257 LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301)	659.94	6.25
For >50 To 100, Deduct	-16.81	
For >100 To 250, Deduct	-33.31	
For >250 To 500, Deduct	-65.99	
For >500, Deduct	-98.68	
26 51 19 00-0258 Low Bay LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0259 LED Linear Low Bay Fixtures (PlanLED) (26 51 19 00-0258)		
26 51 19 00-0260 EA 4' Length, 23 Watt, LED Linear Low Bay Fixture (PlanLED A1W4)	329.50	75.01
For >50 To 100, Deduct	-11.36	
For >100 To 250, Deduct	-19.60	
For >250 To 500, Deduct	-32.95	
For >500, Deduct	-46.30	
26 51 19 00-0261 EA 4' Length, 42 Watt, LED Linear Low Bay Fixture (PlanLED A2W4A).....	435.15	75.01
For >50 To 100, Deduct	-14.00	
For >100 To 250, Deduct	-24.88	
For >250 To 500, Deduct	-43.52	
For >500, Deduct	-62.15	
26 51 19 00-0262 EA 8' Length, 84 Watt, LED Linear Low Bay Fixture (PlanLED A2W5A).....	710.08	93.76
For >50 To 100, Deduct	-21.66	
For >100 To 250, Deduct	-39.41	
For >250 To 500, Deduct	-71.01	
For >500, Deduct	-102.61	
26 51 19 00-0263 LED Low Bay Fixtures (CREE®) (26 51 19 00-0258)		
26 51 19 00-0264 LED Low Bay Fixtures (CREE® LS) (26 51 19 00-0263)		
Note: Includes 120/277 voltage and 22 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0265 EA 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-35K-10V)	274.69	75.01
For >50 To 100, Deduct	-9.99	
For >100 To 250, Deduct	-16.86	
For >250 To 500, Deduct	-27.47	
For >500, Deduct	-38.08	
26 51 19 00-0266 EA 2,500 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-25L-50K-10V)	290.04	75.01
For >50 To 100, Deduct	-10.38	
For >100 To 250, Deduct	-17.63	
For >250 To 500, Deduct	-29.00	
For >500, Deduct	-40.38	
26 51 19 00-0267 EA 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-35K-10V)	281.09	75.01
For >50 To 100, Deduct	-10.15	
For >100 To 250, Deduct	-17.18	
For >250 To 500, Deduct	-28.11	
For >500, Deduct	-39.04	
26 51 19 00-0268 EA 4,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-40L-50K-10V)	296.44	75.01
For >50 To 100, Deduct	-10.54	
For >100 To 250, Deduct	-17.95	
For >250 To 500, Deduct	-29.64	
For >500, Deduct	-41.34	
26 51 19 00-0269 EA 5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-35K-10V)	307.95	75.01
For >50 To 100, Deduct	-10.82	
For >100 To 250, Deduct	-18.52	
For >250 To 500, Deduct	-30.80	
For >500, Deduct	-43.07	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0270	EA	5,000 Lumens, 4' Length, LED Low Bay Fixture (Cree® LS4-50L-50K-10V).....	323.30	75.01
		<i>For >50 To 100, Deduct</i>	-11.21	
		<i>For >100 To 250, Deduct</i>	-19.29	
		<i>For >250 To 500, Deduct</i>	-32.33	
		<i>For >500, Deduct</i>	-45.37	
26 51 19 00-0271	EA	8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-35K-10V).....	424.93	93.76
		<i>For >50 To 100, Deduct</i>	-14.53	
		<i>For >100 To 250, Deduct</i>	-25.15	
		<i>For >250 To 500, Deduct</i>	-42.49	
		<i>For >500, Deduct</i>	-59.83	
26 51 19 00-0272	EA	8,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-80L-50K-10V).....	453.07	93.76
		<i>For >50 To 100, Deduct</i>	-15.23	
		<i>For >100 To 250, Deduct</i>	-26.56	
		<i>For >250 To 500, Deduct</i>	-45.31	
		<i>For >500, Deduct</i>	-64.05	
26 51 19 00-0273	EA	10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-35K-10V).....	511.92	93.76
		<i>For >50 To 100, Deduct</i>	-16.70	
		<i>For >100 To 250, Deduct</i>	-29.50	
		<i>For >250 To 500, Deduct</i>	-51.19	
		<i>For >500, Deduct</i>	-72.88	
26 51 19 00-0274	EA	10,000 Lumens, 8' Length, LED Low Bay Fixture (Cree® LS8-100L-50K-10V).....	527.27	93.76
		<i>For >50 To 100, Deduct</i>	-17.09	
		<i>For >100 To 250, Deduct</i>	-30.27	
		<i>For >250 To 500, Deduct</i>	-52.73	
		<i>For >500, Deduct</i>	-75.18	
26 51 19 00-0275	LED Low Bay Fixtures (CREE® LN) <small>(26 51 19 00-0263)</small>			
	Note: Includes 120/277 voltage and aluminum housing assembly. Excludes sensors.			
26 51 19 00-0276	EA	3,400 Lumens, 4' Length, LED Low Bay Fixture (Cree® LN4-34L-35K-10V)	558.70	75.01
		<i>For >50 To 100, Deduct</i>	-17.09	
		<i>For >100 To 250, Deduct</i>	-31.06	
		<i>For >250 To 500, Deduct</i>	-55.87	
		<i>For >500, Deduct</i>	-80.68	
26 51 19 00-0277	EA	3,400 Lumens, 4' Length, LED Low Bay Fixture, Smartcast Technology (Cree® LN4-34L-35K-CMA)	622.67	75.01
		<i>For >50 To 100, Deduct</i>	-18.69	
		<i>For >100 To 250, Deduct</i>	-34.26	
		<i>For >250 To 500, Deduct</i>	-62.27	
		<i>For >500, Deduct</i>	-90.28	
26 51 19 00-0278	LED Linear Low Bay Fixtures (CREE® CS) <small>(26 51 19 00-0263)</small>			
	Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors.			
26 51 19 00-0279	EA	4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™).....	545.20	75.01
		<i>For >50 To 100, Deduct</i>	-16.76	
		<i>For >100 To 250, Deduct</i>	-30.39	
		<i>For >250 To 500, Deduct</i>	-54.52	
		<i>For >500, Deduct</i>	-78.65	
26 51 19 00-0280	EA	7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	677.30	93.76
		<i>For >50 To 100, Deduct</i>	-20.84	
		<i>For >100 To 250, Deduct</i>	-37.77	
		<i>For >250 To 500, Deduct</i>	-67.73	
		<i>For >500, Deduct</i>	-97.69	
26 51 19 00-0281	EA	8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	844.36	93.76
		<i>For >50 To 100, Deduct</i>	-25.02	
		<i>For >100 To 250, Deduct</i>	-46.12	
		<i>For >250 To 500, Deduct</i>	-84.44	
		<i>For >500, Deduct</i>	-122.75	
26 51 19 00-0282	Accessories For LED Low Bay Fixtures (CREE®) <small>(26 51 19 00-0263)</small>			
26 51 19 00-0283	EA	Continuous Row Through Wiring Kit For 4' Fixtures (Cree® LS4TWK)	56.84	20.55
		<i>For >50 To 100, Deduct</i>	-2.28	
		<i>For >100 To 250, Deduct</i>	-3.70	
		<i>For >250 To 500, Deduct</i>	-5.68	
		<i>For >500, Deduct</i>	-7.67	
26 51 19 00-0284	EA	Continuous Row Through Wiring Kit For 8' Fixtures (Cree® LS8TWK)	61.36	20.55
		<i>For >50 To 100, Deduct</i>	-2.39	
		<i>For >100 To 250, Deduct</i>	-3.92	
		<i>For >250 To 500, Deduct</i>	-6.14	
		<i>For >500, Deduct</i>	-8.35	
26 51 19 00-0285	EA	Top Housing Aligner For Continuous Row Installations (Cree® LS-RJ)	49.30	20.55
		<i>For >50 To 100, Deduct</i>	-2.09	
		<i>For >100 To 250, Deduct</i>	-3.32	
		<i>For >250 To 500, Deduct</i>	-4.93	
		<i>For >500, Deduct</i>	-6.54	
26 51 19 00-0286	EA	Reflector Joint Aligner For Continuous Row Installations (Cree® LS-RFLJ).....	41.78	20.55
		<i>For >50 To 100, Deduct</i>	-1.90	
		<i>For >100 To 250, Deduct</i>	-2.95	
		<i>For >250 To 500, Deduct</i>	-4.18	
		<i>For >500, Deduct</i>	-5.41	

**Electrical 26****Lighting 26 50****Interior Lighting 26 51****26**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0287	EA		Solid Reflector, Pair (Cree® LS4-SR).....	109.51	20.55
			<i>For >50 To 100, Deduct</i>	-3.59	
			<i>For >100 To 250, Deduct</i>	-6.33	
			<i>For >250 To 500, Deduct</i>	-10.95	
			<i>For >500, Deduct</i>	-15.57	
26 51 19 00-0288	EA		Solid Reflector, Pair (Cree® LS8-SR).....	147.15	20.55
			<i>For >50 To 100, Deduct</i>	-4.54	
			<i>For >100 To 250, Deduct</i>	-8.21	
			<i>For >250 To 500, Deduct</i>	-14.72	
			<i>For >500, Deduct</i>	-21.22	
26 51 19 00-0289	EA		5" Cable Canopy With #18/2 SJT Cord, 48" (Cree® AC5-18/2-48-Q14B-JB).....	61.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.14	
			<i>For >500, Deduct</i>	-8.35	
26 51 19 00-0290	EA		5" Cable Canopy With #18/2 SJT Cord, 72" (Cree® AC5-18/2-72-Q14B-JB).....	82.43	20.55
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100 To 250, Deduct</i>	-4.98	
			<i>For >250 To 500, Deduct</i>	-8.24	
			<i>For >500, Deduct</i>	-11.51	
26 51 19 00-0291	EA		5" Cable Canopy With #18/5 SJT Cord, 48" (Cree® AC5-18/5-48-Q14B-JB).....	67.37	20.55
			<i>For >50 To 100, Deduct</i>	-2.54	
			<i>For >100 To 250, Deduct</i>	-4.23	
			<i>For >250 To 500, Deduct</i>	-6.74	
			<i>For >500, Deduct</i>	-9.25	
26 51 19 00-0292	EA		5" Cable Canopy With #18/5 SJT Cord, 72" (Cree® AC5-18/5-72-Q14B-JB).....	86.94	20.55
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100 To 250, Deduct</i>	-5.20	
			<i>For >250 To 500, Deduct</i>	-8.69	
			<i>For >500, Deduct</i>	-12.18	
26 51 19 00-0293	EA		5" Cable Canopy With #18/5 SJT Cord, 96" (Cree® AC5-18/5-96-Q14B-JB).....	91.46	20.55
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-5.43	
			<i>For >250 To 500, Deduct</i>	-9.15	
			<i>For >500, Deduct</i>	-12.86	
26 51 19 00-0294	EA		5" Cable Canopy With #12/3 SJT Cord, 48" (Cree® AC5-12/3-48-Q14B-JB).....	79.41	20.55
			<i>For >50 To 100, Deduct</i>	-2.84	
			<i>For >100 To 250, Deduct</i>	-4.63	
			<i>For >250 To 500, Deduct</i>	-7.94	
			<i>For >500, Deduct</i>	-11.06	
26 51 19 00-0295	EA		5" Cable Canopy With #12/3 SJT Cord, 72" (Cree® AC5-12/3-72-Q14B-JB).....	114.03	20.55
			<i>For >50 To 100, Deduct</i>	-3.71	
			<i>For >100 To 250, Deduct</i>	-6.56	
			<i>For >250 To 500, Deduct</i>	-11.40	
			<i>For >500, Deduct</i>	-16.25	
26 51 19 00-0296	EA		Set Of End Caps, One With Power Feed, One Without (Cree® LN-EC)	64.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.47	
			<i>For >100 To 250, Deduct</i>	-4.07	
			<i>For >250 To 500, Deduct</i>	-6.44	
			<i>For >500, Deduct</i>	-8.80	
26 51 19 00-0297	EA		Canopy Kit With Aircraft Cable And Opening For Power Feed (Cree® LN-CK-5-AC)	76.40	20.55
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100 To 250, Deduct</i>	-4.68	
			<i>For >250 To 500, Deduct</i>	-7.64	
			<i>For >500, Deduct</i>	-10.60	
26 51 19 00-0298	EA		Canopy Kit With Aircraft Cable No Opening For Power Feed (Cree® LN-CK-0-AC).....	61.36	20.55
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-3.92	
			<i>For >250 To 500, Deduct</i>	-6.14	
			<i>For >500, Deduct</i>	-8.35	
26 51 19 00-0299	EA		Emergency 125W Inverter, Ceiling Installed (Cree® ELI-125W)	1,015.68	50.00
			<i>For >50 To 100, Deduct</i>	-27.27	
			<i>For >100 To 250, Deduct</i>	-52.66	
			<i>For >250 To 500, Deduct</i>	-101.57	
			<i>For >500, Deduct</i>	-150.48	
26 51 19 00-0300	EA		120 Volt, Emergency Relay For Use With Generator Power (Cree® EL-SR-120).....	376.02	50.00
			<i>For >50 To 100, Deduct</i>	-11.28	
			<i>For >100 To 250, Deduct</i>	-20.68	
			<i>For >250 To 500, Deduct</i>	-37.60	
			<i>For >500, Deduct</i>	-54.53	
26 51 19 00-0301			LED Linear Low Bay Fixtures (Lithonia MSL) <small>(26 51 19 00-0258)</small>		
			Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 19 00-0302	EA		4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL).....	818.34	75.01
			<i>For >50 To 100, Deduct</i>	-23.58	
			<i>For >100 To 250, Deduct</i>	-44.04	
			<i>For >250 To 500, Deduct</i>	-81.83	
			<i>For >500, Deduct</i>	-119.63	
26 51 19 00-0303			High Bay LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0304			LED High Bay Fixtures (Columbia Lighting LWS) <small>(26 51 19 00-0303)</small>		

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0305	EA 16" x 24", 7,909 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-LW-W-EU).....	507.75	137.52
	For >50 To 100, Deduct	-19.57	
	For >100 To 250, Deduct	-32.26	
	For >250 To 500, Deduct	-50.78	
	For >500, Deduct	-69.29	
26 51 19 00-0306	EA 16" x 24", 8,526 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-LW-W-EU).....	507.75	137.52
	For >50 To 100, Deduct	-19.57	
	For >100 To 250, Deduct	-32.26	
	For >250 To 500, Deduct	-50.78	
	For >500, Deduct	-69.29	
26 51 19 00-0307	EA 16" x 24", 11,812 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-ML-W-EU).....	563.60	137.52
	For >50 To 100, Deduct	-20.97	
	For >100 To 250, Deduct	-35.06	
	For >250 To 500, Deduct	-56.36	
	For >500, Deduct	-77.66	
26 51 19 00-0308	EA 16" x 24", 12,734 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-ML-W-EU).....	563.60	137.52
	For >50 To 100, Deduct	-20.97	
	For >100 To 250, Deduct	-35.06	
	For >250 To 500, Deduct	-56.36	
	For >500, Deduct	-77.66	
26 51 19 00-0309	EA 16" x 24", 14,813 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-HL-W-EU).....	656.68	137.52
	For >50 To 100, Deduct	-23.29	
	For >100 To 250, Deduct	-39.71	
	For >250 To 500, Deduct	-65.67	
	For >500, Deduct	-91.63	
26 51 19 00-0310	EA 16" x 24", 15,968 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-HL-W-EU).....	656.68	137.52
	For >50 To 100, Deduct	-23.29	
	For >100 To 250, Deduct	-39.71	
	For >250 To 500, Deduct	-65.67	
	For >500, Deduct	-91.63	
26 51 19 00-0311	EA 16" x 24", 18,714 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-VL-W-EU).....	693.91	137.52
	For >50 To 100, Deduct	-24.22	
	For >100 To 250, Deduct	-41.57	
	For >250 To 500, Deduct	-69.39	
	For >500, Deduct	-97.21	
26 51 19 00-0312	EA 16" x 24", 19,511 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-VL-W-EU).....	693.91	137.52
	For >50 To 100, Deduct	-24.22	
	For >100 To 250, Deduct	-41.57	
	For >250 To 500, Deduct	-69.39	
	For >500, Deduct	-97.21	
26 51 19 00-0313	EA 16" x 24", 22,994 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-XL-W-EU).....	721.84	137.52
	For >50 To 100, Deduct	-24.92	
	For >100 To 250, Deduct	-42.97	
	For >250 To 500, Deduct	-72.18	
	For >500, Deduct	-101.40	
26 51 19 00-0314	EA 16" x 24", 24,787 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-XL-W-EU).....	721.84	137.52
	For >50 To 100, Deduct	-24.92	
	For >100 To 250, Deduct	-42.97	
	For >250 To 500, Deduct	-72.18	
	For >500, Deduct	-101.40	
26 51 19 00-0315	LED High Bay Fixtures (Cree) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0316	LED High Bay Fixtures (CREE®) <small>(26 51 19 00-0315)</small>		
26 51 19 00-0317	EA 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-10V).....	708.73	137.52
	For >50 To 100, Deduct	-24.59	
	For >100 To 250, Deduct	-42.31	
	For >250 To 500, Deduct	-70.87	
	For >500, Deduct	-99.43	
26 51 19 00-0318	EA 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-ML).....	831.92	137.52
	For >50 To 100, Deduct	-27.67	
	For >100 To 250, Deduct	-48.47	
	For >250 To 500, Deduct	-83.19	
	For >500, Deduct	-117.91	
26 51 19 00-0319	EA 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-10V).....	771.72	137.52
	For >50 To 100, Deduct	-26.17	
	For >100 To 250, Deduct	-45.46	
	For >250 To 500, Deduct	-77.17	
	For >500, Deduct	-108.88	
26 51 19 00-0320	EA 18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-ML).....	869.55	137.52
	For >50 To 100, Deduct	-28.61	
	For >100 To 250, Deduct	-50.35	
	For >250 To 500, Deduct	-86.96	
	For >500, Deduct	-123.56	
26 51 19 00-0321	EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-10V).....	730.48	137.52
	For >50 To 100, Deduct	-25.14	
	For >100 To 250, Deduct	-43.40	
	For >250 To 500, Deduct	-73.05	
	For >500, Deduct	-102.70	
26 51 19 00-0322	EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-ML).....	854.50	137.52
	For >50 To 100, Deduct	-28.24	
	For >100 To 250, Deduct	-49.60	
	For >250 To 500, Deduct	-85.45	
	For >500, Deduct	-121.30	



		Electrical	26	
		Lighting	26 50	26
		Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0323 EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-10V).....	794.29	137.52
For >50 To 100, Deduct	-26.73	
For >100 To 250, Deduct	-46.59	
For >250 To 500, Deduct	-79.43	
For >500, Deduct	-112.27	
26 51 19 00-0324 EA 24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-ML)	892.12	137.52
For >50 To 100, Deduct	-29.18	
For >100 To 250, Deduct	-51.48	
For >250 To 500, Deduct	-89.21	
For >500, Deduct	-126.94	
26 51 19 00-0325 Accessories For LED High Bay Fixtures (CREE®) (26 51 19 00-0315)		
26 51 19 00-0326 EA 15 Amperes, 120 Volt, Straight Blade Plug For LED High Bay Fixtures (Cree® AP-515P)	56.84	20.55
For >50 To 100, Deduct	-2.28	
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-5.68	
For >500, Deduct	-7.67	
26 51 19 00-0327 EA 15 Amperes, 120 Volt, Twist Lock Plug For LED High Bay Fixtures (Cree® AP-L515P)	56.84	20.55
For >50 To 100, Deduct	-2.28	
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-5.68	
For >500, Deduct	-7.67	
26 51 19 00-0328 EA 16" Matte Spun Aluminum Reflector For LED High Bay Fixture (Cree® CXBA16N)	71.88	20.55
For >50 To 100, Deduct	-2.65	
For >100 To 250, Deduct	-4.45	
For >250 To 500, Deduct	-7.19	
For >500, Deduct	-9.93	
26 51 19 00-0329 EA 16" Clear Acrylic Reflector For LED High Bay Fixture (Cree® CXBP16)	101.99	20.55
For >50 To 100, Deduct	-3.41	
For >100 To 250, Deduct	-5.96	
For >250 To 500, Deduct	-10.20	
For >500, Deduct	-14.44	
26 51 19 00-0330 EA 16" White Acrylic Reflector For LED High Bay Fixture (Cree® CXBW16)	117.04	20.55
For >50 To 100, Deduct	-3.78	
For >100 To 250, Deduct	-6.71	
For >250 To 500, Deduct	-11.70	
For >500, Deduct	-16.70	
26 51 19 00-0331 EA 16" Clear Prismatic Conical Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® CL16)	71.88	20.55
For >50 To 100, Deduct	-2.65	
For >100 To 250, Deduct	-4.45	
For >250 To 500, Deduct	-7.19	
For >500, Deduct	-9.93	
26 51 19 00-0332 EA 16" Clear Prismatic Drop Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® DL16)	73.39	20.55
For >50 To 100, Deduct	-2.69	
For >100 To 250, Deduct	-4.53	
For >250 To 500, Deduct	-7.34	
For >500, Deduct	-10.15	
26 51 19 00-0333 EA 16" Wire Guard For Aluminum Reflector For LED High Bay Fixtures (Cree® WG-A)	56.84	20.55
For >50 To 100, Deduct	-2.28	
For >100 To 250, Deduct	-3.70	
For >250 To 500, Deduct	-5.68	
For >500, Deduct	-7.67	
26 51 19 00-0334 EA 16" Wire Guard For Prismatic And Acrylic Reflector For LED High Bay Fixtures (Cree® WG-AP)	59.85	20.55
For >50 To 100, Deduct	-2.35	
For >100 To 250, Deduct	-3.85	
For >250 To 500, Deduct	-5.99	
For >500, Deduct	-8.12	
26 51 19 00-0335 EA 5' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-5)	43.29	20.55
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.02	
For >250 To 500, Deduct	-4.33	
For >500, Deduct	-5.64	
26 51 19 00-0336 EA 10' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-10)	44.80	20.55
For >50 To 100, Deduct	-1.98	
For >100 To 250, Deduct	-3.10	
For >250 To 500, Deduct	-4.48	
For >500, Deduct	-5.86	
26 51 19 00-0337 LED High Bay Fixtures (DLE) (26 51 19 00-0303)		
26 51 19 00-0338 EA 12,000 Lumens, 120 Watt, LED High Bay Fixture (DLE-12-ST/HV)	1,227.60	137.52
For >50 To 100, Deduct	-37.57	
For >100 To 250, Deduct	-68.26	
For >250 To 500, Deduct	-122.76	
For >500, Deduct	-177.26	
26 51 19 00-0339 EA 18,000 Lumens, 180 Watt, LED High Bay Fixture (DLE-18-ST/HV)	1,490.02	137.52
For >50 To 100, Deduct	-44.13	
For >100 To 250, Deduct	-81.38	
For >250 To 500, Deduct	-149.00	
For >500, Deduct	-216.63	
26 51 19 00-0340 EA 24,000 Lumens, 230 Watt, LED High Bay Fixture (DLE-24-ST/HV)	1,733.70	137.52
For >50 To 100, Deduct	-50.22	
For >100 To 250, Deduct	-93.56	
For >250 To 500, Deduct	-173.37	
For >500, Deduct	-253.18	

26 Electrical**26 50 Lighting****26 51 Interior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0341			LED High Bay Fixtures (Everlast) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0342			LED High Bay Fixtures (Everlast EL-LED-LG) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0343	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	854.42	137.52
			For >50 To 100, Deduct	-28.24	
			For >100 To 250, Deduct	-49.60	
			For >250 To 500, Deduct	-85.44	
			For >500, Deduct	-121.29	
26 51 19 00-0344	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....	898.72	137.52
			For >50 To 100, Deduct	-29.34	
			For >100 To 250, Deduct	-51.81	
			For >250 To 500, Deduct	-89.87	
			For >500, Deduct	-127.93	
26 51 19 00-0345	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	810.11	137.52
			For >50 To 100, Deduct	-27.13	
			For >100 To 250, Deduct	-47.38	
			For >250 To 500, Deduct	-81.01	
			For >500, Deduct	-114.64	
26 51 19 00-0346	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	828.85	137.52
			For >50 To 100, Deduct	-27.60	
			For >100 To 250, Deduct	-48.32	
			For >250 To 500, Deduct	-82.89	
			For >500, Deduct	-117.45	
26 51 19 00-0347	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	931.10	137.52
			For >50 To 100, Deduct	-30.15	
			For >100 To 250, Deduct	-53.43	
			For >250 To 500, Deduct	-93.11	
			For >500, Deduct	-132.79	
26 51 19 00-0348	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO).....	1,007.78	137.52
			For >50 To 100, Deduct	-32.07	
			For >100 To 250, Deduct	-57.27	
			For >250 To 500, Deduct	-100.78	
			For >500, Deduct	-144.29	
26 51 19 00-0349	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16)	890.20	137.52
			For >50 To 100, Deduct	-29.13	
			For >100 To 250, Deduct	-51.39	
			For >250 To 500, Deduct	-89.02	
			For >500, Deduct	-126.65	
26 51 19 00-0350	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22)	956.66	137.52
			For >50 To 100, Deduct	-30.79	
			For >100 To 250, Deduct	-54.71	
			For >250 To 500, Deduct	-95.67	
			For >500, Deduct	-136.62	
26 51 19 00-0351	EA		34,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,357.11	137.52
			For >50 To 100, Deduct	-40.80	
			For >100 To 250, Deduct	-74.73	
			For >250 To 500, Deduct	-135.71	
			For >500, Deduct	-196.69	
26 51 19 00-0352	EA		43,000 Lumens, 400 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,476.39	137.52
			For >50 To 100, Deduct	-43.79	
			For >100 To 250, Deduct	-80.70	
			For >250 To 500, Deduct	-147.64	
			For >500, Deduct	-214.58	
26 51 19 00-0353	EA		66,000 Lumens, 600 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30)	1,817.20	137.52
			For >50 To 100, Deduct	-52.31	
			For >100 To 250, Deduct	-97.74	
			For >250 To 500, Deduct	-181.72	
			For >500, Deduct	-265.70	
26 51 19 00-0354			LED High Bay Fixtures (Everlast EL-LED-CS) <small>(26 51 19 00-0341)</small>		
26 51 19 00-0355	EA		5,000 Lumens, 50 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	564.73	137.52
			For >50 To 100, Deduct	-20.99	
			For >100 To 250, Deduct	-35.11	
			For >250 To 500, Deduct	-56.47	
			For >500, Deduct	-77.83	
26 51 19 00-0356	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	794.77	137.52
			For >50 To 100, Deduct	-26.75	
			For >100 To 250, Deduct	-46.61	
			For >250 To 500, Deduct	-79.48	
			For >500, Deduct	-112.34	
26 51 19 00-0357	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	897.02	137.52
			For >50 To 100, Deduct	-29.30	
			For >100 To 250, Deduct	-51.73	
			For >250 To 500, Deduct	-89.70	
			For >500, Deduct	-127.68	
26 51 19 00-0358	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	1,016.30	137.52
			For >50 To 100, Deduct	-32.28	
			For >100 To 250, Deduct	-57.69	
			For >250 To 500, Deduct	-101.63	
			For >500, Deduct	-145.57	



Electrical	26
Lighting	26 50
Interior Lighting	26 51

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0359	EA 30,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-CS) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,092.98 -34.20 -61.53 -109.30 -157.07	137.52
26 51 19 00-0360 LED High Bay Fixtures (Everlast EL-LED-HB-LG) (26 51 19 00-0341)			
26 51 19 00-0361	EA 10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	718.09 -24.83 -42.78 -71.81 -100.84	137.52
26 51 19 00-0362	EA 15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	760.69 -25.89 -44.91 -76.07 -107.23	137.52
26 51 19 00-0363	EA 20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	820.33 -27.38 -47.89 -82.03 -116.17	137.52
26 51 19 00-0364 LED High Bay Fixtures (Everlast EL-LED-LHB) (26 51 19 00-0341)			
26 51 19 00-0365	EA 13,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	728.32 -25.08 -43.29 -72.83 -102.37	137.52
26 51 19 00-0366	EA 26,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	879.98 -28.88 -50.88 -88.00 -125.12	137.52
26 51 19 00-0367	EA 39,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LHB) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,075.94 -33.77 -60.67 -107.59 -154.52	137.52
26 51 19 00-0368 LED High Bay Fixtures (Lithonia IBL) (26 51 19 00-0303)			
Note: Includes aluminum alloy chassis.			
26 51 19 00-0369	EA 9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	625.41 -22.51 -38.15 -62.54 -86.94	137.52
26 51 19 00-0370	EA 12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	671.95 -23.67 -40.47 -67.20 -93.92	137.52
26 51 19 00-0371	EA 18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	797.61 -26.82 -46.76 -79.76 -112.77	137.52
26 51 19 00-0372	EA 24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	847.88 -28.07 -49.27 -84.79 -120.31	137.52
26 51 19 00-0373 LED High Bay Fixtures (Metalux SSLED) (26 51 19 00-0303)			
26 51 19 00-0374	EA 12,000 Lumens, 80 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-12-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	681.44 -23.91 -40.95 -68.14 -95.34	137.52
26 51 19 00-0375	EA 15,000 Lumens, 100 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-15-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	697.41 -24.31 -41.75 -69.74 -97.74	137.52
26 51 19 00-0376	EA 18,000 Lumens, 120 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-18-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	703.84 -24.47 -42.07 -70.38 -98.70	137.52

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0377	EA 24,000 Lumens, 160 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-24-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	765.06 -26.00 -45.13 -76.51 -107.88	137.52
26 51 19 00-0378	EA 30,000 Lumens, 200 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-30-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	863.37 -27.79 -48.69 -83.64 -118.58	137.52
26 51 19 00-0379	EA 36,000 Lumens, 240 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-36-M-UNV-L840-CD1U) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	863.13 -28.45 -50.03 -86.31 -122.59	137.52
26 51 19 00-0380	LED High Bay Fixtures (PlanLED) <small>(26 51 19 00-0303)</small>		
26 51 19 00-0381	LED High Bay Fixtures (PlanLED LUNA) <small>(26 51 19 00-0380)</small> Note: Includes aluminum alloy chassis.		
26 51 19 00-0382	EA 7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	833.97 -27.73 -48.57 -83.40 -118.22	137.52
26 51 19 00-0383	EA 9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	929.39 -30.11 -53.35 -92.94 -132.53	137.52
26 51 19 00-0384	EA 13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,067.42 -33.56 -60.25 -106.74 -153.24	137.52
26 51 19 00-0385	EA 16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,202.04 -36.93 -66.98 -120.20 -173.43	137.52
26 51 19 00-0386	LED High Bay Fixtures (PlanLED IBL) <small>(26 51 19 00-0380)</small> Note: Includes aluminum alloy chassis.		
26 51 19 00-0387	EA 13,650 Lumens, 130 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W) <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	902.13 47.13 -29.43 -51.98 -90.21 -128.44	137.52
26 51 19 00-0388	EA 21,000 Lumens, 200 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W) <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	1,234.42 59.55 -37.74 -68.60 -123.44 -178.29	137.52
26 51 19 00-0389	EA 42,000 Lumens, 400 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W) <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	2,149.49 94.13 -60.61 -114.35 -214.95 -315.55	137.52
26 51 19 00-0390	LED High Bay Fixtures (PlanLED SEGA) <small>(26 51 19 00-0380)</small> Note: Includes aluminum alloy chassis.		
26 51 19 00-0391	EA 10,400 Lumens, 80 Watt, LED High Bay Fixture (PlanLED SEGA SE080) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	723.20 72.99 -24.96 -43.04 -72.32 -101.60	137.52
26 51 19 00-0392	EA 13,000 Lumens, 100 Watt, LED High Bay Fixture (PlanLED SEGA SE100) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	769.21 72.99 -26.11 -45.34 -76.92 -108.51	137.52
26 51 19 00-0393	EA 16,900 Lumens, 130 Watt, LED High Bay Fixture (PlanLED SEGA SE130) <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	927.69 72.99 -30.07 -53.26 -92.77 -132.28	137.52



Electrical	26
Lighting	26 50
Interior Lighting	26 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0394 EA 20,800 Lumens, 160 Watt, LED High Bay Fixture (PlanLED SEGA SE160)	1,041.86	137.52
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-32.92	
For >100 To 250, Deduct	-58.97	
For >250 To 500, Deduct	-104.19	
For >500, Deduct	-149.40	
26 51 19 00-0395 EA 50,000 Lumens, 400 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE400).....	1,883.66	137.52
For >50 To 100, Deduct	-53.97	
For >100 To 250, Deduct	-101.06	
For >250 To 500, Deduct	-188.37	
For >500, Deduct	-275.67	
26 51 19 00-0396 EA 57,040 Lumens, 500 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE500).....	2,033.61	137.52
For >50 To 100, Deduct	-57.72	
For >100 To 250, Deduct	-108.56	
For >250 To 500, Deduct	-203.36	
For >500, Deduct	-298.17	
26 51 19 00-0397 EA 80,000 Lumens, 640 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE640).....	3,063.15	137.52
For >50 To 100, Deduct	-83.45	
For >100 To 250, Deduct	-160.03	
For >250 To 500, Deduct	-306.32	
For >500, Deduct	-452.60	
 26 51 19 00-0398 Wet/Hazardous Location, LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0399 Wet Location, LED Fixtures (26 51 19 00-0398)		
26 51 19 00-0400 Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM) (26 51 19 00-0399)		
Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0401 EA 3,531 Lumens, 29 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM3L).....	1,931.03	105.02
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-52.65	
For >100 To 250, Deduct	-100.93	
For >250 To 500, Deduct	-193.10	
For >500, Deduct	-285.28	
26 51 19 00-0402 EA 5,335 Lumens, 43 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L).....	1,971.17	112.51
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-53.97	
For >100 To 250, Deduct	-103.25	
For >250 To 500, Deduct	-197.12	
For >500, Deduct	-290.99	
26 51 19 00-0403 EA 7,195 Lumens, 62 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L).....	2,221.61	120.01
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-60.54	
For >100 To 250, Deduct	-116.08	
For >250 To 500, Deduct	-222.16	
For >500, Deduct	-328.24	

26	26 Electrical
	26 50 Lighting
	26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0404 EA 9,266 Lumens, 85 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L)	2,665.06	127.52
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-71.94	
For >100 To 250, Deduct	-138.57	
For >250 To 500, Deduct	-266.51	
For >500, Deduct	-394.45	
26 51 19 00-0405 EA 11,440 Lumens, 113 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L)	3,384.20	135.01
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-90.23	
For >100 To 250, Deduct	-174.84	
For >250 To 500, Deduct	-338.42	
For >500, Deduct	-502.00	
26 51 19 00-0406 EA 13,226 Lumens, 131 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L)	4,432.49	138.76
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-116.59	
For >100 To 250, Deduct	-227.41	
For >250 To 500, Deduct	-443.25	
For >500, Deduct	-659.09	
26 51 19 00-0407 EA 18,793 Lumens, 168 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM17L)	5,124.00	142.52
For Ceiling Mount, Add	16.36	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Stanchion Mount, Add	111.56	
For Wall Mount, Add	123.49	
For Polycarbonate Lens, Add	95.84	
For Teflon Coated Lens, Add	109.75	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-134.04	
For >100 To 250, Deduct	-262.14	
For >250 To 500, Deduct	-512.40	
For >500, Deduct	-762.66	
26 51 19 00-0408 Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM) ^(26 51 19 00-0399)		
Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0409 EA 5,183 Lumens, 45 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM5L)	1,749.60	112.51
For Bolt-On Visor, Add	89.03	
For Bolt-On Wire Guard, Add	183.12	
For 480 Volt, Add	156.78	
For Warm White Color Rendering, Add	66.57	
For >50 To 100, Deduct	-48.43	
For >100 To 250, Deduct	-92.17	
For >250 To 500, Deduct	-174.96	
For >500, Deduct	-257.75	
26 51 19 00-0410 EA 7,095 Lumens, 62 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM7L)	2,557.33	120.01
For Bolt-On Visor, Add	89.03	
For Bolt-On Wire Guard, Add	183.12	
For 480 Volt, Add	156.78	
For Warm White Color Rendering, Add	66.57	
For >50 To 100, Deduct	-68.93	
For >100 To 250, Deduct	-132.87	
For >250 To 500, Deduct	-255.73	
For >500, Deduct	-378.60	



Electrical	26	
Lighting	26 50	26
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0411	EA	9,132 Lumens, 79 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM9L).....	2,817.00	127.52
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-75.74	
			<i>For >100 To 250, Deduct</i>	-146.16	
			<i>For >250 To 500, Deduct</i>	-281.70	
			<i>For >500, Deduct</i>	-417.24	
26 51	19 00-0412	EA	11,107 Lumens, 99 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM11L).....	3,228.11	135.01
			<i>For Bolt-On Visor, Add</i>	89.03	
			<i>For Bolt-On Wire Guard, Add</i>	183.12	
			<i>For 480 Volt, Add</i>	156.78	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For >50 To 100, Deduct</i>	-86.33	
			<i>For >100 To 250, Deduct</i>	-167.03	
			<i>For >250 To 500, Deduct</i>	-322.81	
			<i>For >500, Deduct</i>	-478.59	
26 51	19 00-0413		Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L) (26 51 19 00-0399)		
			Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51	19 00-0414	EA	1,400 Lumens, 25 Watt, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....	1,227.93	105.02
			<i>For 12/24 Volt DC Driver, Add</i>	25.30	
			<i>For Frosted Lens, Add</i>	51.71	
			<i>For 55 Degree Ambient Suitability (AC Only), Add</i>	34.45	
			<i>For Warm White Color Rendering, Add</i>	66.57	
			<i>For Ceiling Mount, Add</i>	78.61	
			<i>For Wall Mount, Add</i>	114.01	
			<i>For Teflon Coated Lens, Add</i>	109.75	
			<i>For Wall Mount With Junction Box, Add</i>	165.62	
			<i>For >50 To 100, Deduct</i>	-35.07	
			<i>For >100 To 250, Deduct</i>	-65.77	
			<i>For >250 To 500, Deduct</i>	-122.79	
			<i>For >500, Deduct</i>	-179.81	
26 51	19 00-0415		Vaportight, LED Fixtures (26 51 19 00-0398)		
26 51	19 00-0416		General Distribution, Vaportight, LED Fixtures (Metalux) (26 51 19 00-0415)		
26 51	19 00-0417	EA	2', 2,000 Lumens, 16 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-G-UNV-L850-CD1-U).....	347.35	60.01
			<i>For >50 To 100, Deduct</i>	-11.18	
			<i>For >100 To 250, Deduct</i>	-19.87	
			<i>For >250 To 500, Deduct</i>	-34.74	
			<i>For >500, Deduct</i>	-49.60	
26 51	19 00-0418	EA	2', 3,000 Lumens, 24 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-G-UNV-L850-CD1-U).....	362.51	60.01
			<i>For >50 To 100, Deduct</i>	-11.56	
			<i>For >100 To 250, Deduct</i>	-20.63	
			<i>For >250 To 500, Deduct</i>	-36.25	
			<i>For >500, Deduct</i>	-51.88	
26 51	19 00-0419	EA	2', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-G-UNV-L850-CD1-U).....	392.85	60.01
			<i>For >50 To 100, Deduct</i>	-12.32	
			<i>For >100 To 250, Deduct</i>	-22.14	
			<i>For >250 To 500, Deduct</i>	-39.29	
			<i>For >500, Deduct</i>	-56.43	
26 51	19 00-0420	EA	4', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-G-UNV-L850-CD1-U).....	351.47	75.01
			<i>For >50 To 100, Deduct</i>	-11.91	
			<i>For >100 To 250, Deduct</i>	-20.70	
			<i>For >250 To 500, Deduct</i>	-35.15	
			<i>For >500, Deduct</i>	-49.60	
26 51	19 00-0421	EA	4', 6,000 Lumens, 51 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-G-UNV-L850-CD1-U).....	394.97	75.01
			<i>For >50 To 100, Deduct</i>	-13.00	
			<i>For >100 To 250, Deduct</i>	-22.87	
			<i>For >250 To 500, Deduct</i>	-39.50	
			<i>For >500, Deduct</i>	-56.12	
26 51	19 00-0422	EA	4', 8,000 Lumens, 67 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-G-UNV-L850-CD1-U).....	554.34	75.01
			<i>For >50 To 100, Deduct</i>	-16.98	
			<i>For >100 To 250, Deduct</i>	-30.84	
			<i>For >250 To 500, Deduct</i>	-55.43	
			<i>For >500, Deduct</i>	-80.03	
26 51	19 00-0423		Wide Distribution, Vaportight, LED Fixtures (Metalux) (26 51 19 00-0415)		

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0424	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-W-UNV-L850-CD1-U)	377.68	60.01
		For >50 To 100, Deduct	-11.94	
		For >100 To 250, Deduct	-21.38	
		For >250 To 500, Deduct	-37.77	
		For >500, Deduct	-54.15	
26 51 19 00-0425	EA	2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-W-UNV-L850-CD1-U)	392.85	60.01
		For >50 To 100, Deduct	-12.32	
		For >100 To 250, Deduct	-22.14	
		For >250 To 500, Deduct	-39.29	
		For >500, Deduct	-56.43	
26 51 19 00-0426	EA	2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-W-UNV-L850-CD1-U)	423.18	60.01
		For >50 To 100, Deduct	-13.08	
		For >100 To 250, Deduct	-23.66	
		For >250 To 500, Deduct	-42.32	
		For >500, Deduct	-60.98	
26 51 19 00-0427	EA	4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-W-UNV-L850-CD1-U)	493.68	75.01
		For >50 To 100, Deduct	-15.47	
		For >100 To 250, Deduct	-27.81	
		For >250 To 500, Deduct	-49.37	
		For >500, Deduct	-70.93	
26 51 19 00-0428	EA	4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-W-UNV-L850-CD1-U)	554.34	75.01
		For >50 To 100, Deduct	-16.98	
		For >100 To 250, Deduct	-30.84	
		For >250 To 500, Deduct	-55.43	
		For >500, Deduct	-80.03	
26 51 19 00-0429	EA	4', 8,000 Lumens, 70 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-W-UNV-L850-CD1-U)	615.01	75.01
		For >50 To 100, Deduct	-18.50	
		For >100 To 250, Deduct	-33.88	
		For >250 To 500, Deduct	-61.50	
		For >500, Deduct	-89.13	
26 51 19 00-0430		Parking Garage Distribution, Vaportight, LED Fixtures (Metalux) <small>(26 51 19 00-0415)</small>		
26 51 19 00-0431	EA	2', 2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-P-UNV-L850-CD1-U)	377.68	60.01
		For >50 To 100, Deduct	-11.94	
		For >100 To 250, Deduct	-21.38	
		For >250 To 500, Deduct	-37.77	
		For >500, Deduct	-54.15	
26 51 19 00-0432	EA	2', 3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-P-UNV-L850-CD1-U)	394.00	60.01
		For >50 To 100, Deduct	-12.35	
		For >100 To 250, Deduct	-22.20	
		For >250 To 500, Deduct	-39.40	
		For >500, Deduct	-56.60	
26 51 19 00-0433	EA	2', 4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-P-UNV-L850-CD1-U)	423.18	60.01
		For >50 To 100, Deduct	-13.08	
		For >100 To 250, Deduct	-23.66	
		For >250 To 500, Deduct	-42.32	
		For >500, Deduct	-60.98	
26 51 19 00-0434	EA	4', 4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-P-UNV-L850-CD1-U)	493.68	75.01
		For >50 To 100, Deduct	-15.47	
		For >100 To 250, Deduct	-27.81	
		For >250 To 500, Deduct	-49.37	
		For >500, Deduct	-70.93	
26 51 19 00-0435	EA	4', 6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-P-UNV-L850-CD1-U)	554.34	75.01
		For >50 To 100, Deduct	-16.98	
		For >100 To 250, Deduct	-30.84	
		For >250 To 500, Deduct	-55.43	
		For >500, Deduct	-80.03	
26 51 19 00-0436	EA	4', 8,000 Lumens, 69 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-P-UNV-L850-CD1-U)	615.01	75.01
		For >50 To 100, Deduct	-18.50	
		For >100 To 250, Deduct	-33.88	
		For >250 To 500, Deduct	-61.50	
		For >500, Deduct	-89.13	
26 51 19 00-0437		Ceiling Mounted LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0438		Ceiling Mounted, LED Drum Fixtures (Enertron) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0439	EA	11" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X611-30)	143.64	50.00
		For >50 To 100, Deduct	-5.47	
		For >100 To 250, Deduct	-9.06	
		For >250 To 500, Deduct	-14.36	
		For >500, Deduct	-19.67	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0440 EA 11" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X611-30)	150.45	50.00
For >50 To 100, Deduct	-5.64	
For >100 To 250, Deduct	-9.40	
For >250 To 500, Deduct	-15.05	
For >500, Deduct	-20.69	
26 51 19 00-0441 EA 11" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X611-30)	157.26	50.00
For >50 To 100, Deduct	-5.81	
For >100 To 250, Deduct	-9.74	
For >250 To 500, Deduct	-15.73	
For >500, Deduct	-21.71	
26 51 19 00-0442 EA 11" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X611-30)	164.08	50.00
For >50 To 100, Deduct	-5.98	
For >100 To 250, Deduct	-10.08	
For >250 To 500, Deduct	-16.41	
For >500, Deduct	-22.74	
26 51 19 00-0443 EA 14" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X614-30)	158.20	55.00
For >50 To 100, Deduct	-6.02	
For >100 To 250, Deduct	-9.97	
For >250 To 500, Deduct	-15.82	
For >500, Deduct	-21.67	
26 51 19 00-0444 EA 14" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X614-30)	165.01	55.00
For >50 To 100, Deduct	-6.19	
For >100 To 250, Deduct	-10.31	
For >250 To 500, Deduct	-16.50	
For >500, Deduct	-22.69	
26 51 19 00-0445 EA 14" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X614-30)	171.82	55.00
For >50 To 100, Deduct	-6.36	
For >100 To 250, Deduct	-10.65	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.71	
26 51 19 00-0446 EA 14" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X614-30)	178.63	55.00
For >50 To 100, Deduct	-6.53	
For >100 To 250, Deduct	-10.99	
For >250 To 500, Deduct	-17.86	
For >500, Deduct	-24.73	
26 51 19 00-0447 EA 14" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X614-30)	192.26	55.00
For >50 To 100, Deduct	-6.87	
For >100 To 250, Deduct	-11.68	
For >250 To 500, Deduct	-19.23	
For >500, Deduct	-26.78	
26 51 19 00-0448 EA 11" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X611-35)	143.64	50.00
For >50 To 100, Deduct	-5.47	
For >100 To 250, Deduct	-9.06	
For >250 To 500, Deduct	-14.36	
For >500, Deduct	-19.67	
26 51 19 00-0449 EA 11" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X611-35)	150.45	50.00
For >50 To 100, Deduct	-5.64	
For >100 To 250, Deduct	-9.40	
For >250 To 500, Deduct	-15.05	
For >500, Deduct	-20.69	
26 51 19 00-0450 EA 11" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X611-35)	157.26	50.00
For >50 To 100, Deduct	-5.81	
For >100 To 250, Deduct	-9.74	
For >250 To 500, Deduct	-15.73	
For >500, Deduct	-21.71	
26 51 19 00-0451 EA 11" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X611-35)	164.07	50.00
For >50 To 100, Deduct	-5.98	
For >100 To 250, Deduct	-10.08	
For >250 To 500, Deduct	-16.41	
For >500, Deduct	-22.74	
26 51 19 00-0452 EA 14" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X614-35)	158.20	55.00
For >50 To 100, Deduct	-6.02	
For >100 To 250, Deduct	-9.97	
For >250 To 500, Deduct	-15.82	
For >500, Deduct	-21.67	
26 51 19 00-0453 EA 14" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X614-35)	165.01	55.00
For >50 To 100, Deduct	-6.19	
For >100 To 250, Deduct	-10.31	
For >250 To 500, Deduct	-16.50	
For >500, Deduct	-22.69	
26 51 19 00-0454 EA 14" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X614-35)	171.82	55.00
For >50 To 100, Deduct	-6.36	
For >100 To 250, Deduct	-10.65	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.71	
26 51 19 00-0455 EA 14" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X614-35)	178.63	55.00
For >50 To 100, Deduct	-6.53	
For >100 To 250, Deduct	-10.99	
For >250 To 500, Deduct	-17.86	
For >500, Deduct	-24.73	
26 51 19 00-0456 EA 14" Diameter, 3,180 Lumens, 24 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED6X614-30)	192.26	55.00
For >50 To 100, Deduct	-6.87	
For >100 To 250, Deduct	-11.68	
For >250 To 500, Deduct	-19.23	
For >500, Deduct	-26.78	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0457 EA 11" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X611-40)	143.64	50.00
For >50 To 100, Deduct	-5.47	
For >100 To 250, Deduct	-9.06	
For >250 To 500, Deduct	-14.36	
For >500, Deduct	-19.67	
26 51 19 00-0458 EA 11" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X611-40)	150.45	50.00
For >50 To 100, Deduct	-5.64	
For >100 To 250, Deduct	-9.40	
For >250 To 500, Deduct	-15.05	
For >500, Deduct	-20.69	
26 51 19 00-0459 EA 11" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X611-40)	157.26	50.00
For >50 To 100, Deduct	-5.81	
For >100 To 250, Deduct	-9.74	
For >250 To 500, Deduct	-15.73	
For >500, Deduct	-21.71	
26 51 19 00-0460 EA 11" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X611-40)	164.07	50.00
For >50 To 100, Deduct	-5.98	
For >100 To 250, Deduct	-10.08	
For >250 To 500, Deduct	-16.41	
For >500, Deduct	-22.74	
26 51 19 00-0461 EA 14" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	158.20	55.00
For >50 To 100, Deduct	-6.02	
For >100 To 250, Deduct	-9.97	
For >250 To 500, Deduct	-15.82	
For >500, Deduct	-21.67	
26 51 19 00-0462 EA 14" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	165.01	55.00
For >50 To 100, Deduct	-6.19	
For >100 To 250, Deduct	-10.31	
For >250 To 500, Deduct	-16.50	
For >500, Deduct	-22.69	
26 51 19 00-0463 EA 14" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	171.82	55.00
For >50 To 100, Deduct	-6.36	
For >100 To 250, Deduct	-10.65	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.71	
26 51 19 00-0464 EA 14" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	178.63	55.00
For >50 To 100, Deduct	-6.53	
For >100 To 250, Deduct	-10.99	
For >250 To 500, Deduct	-17.86	
For >500, Deduct	-24.73	
26 51 19 00-0465 EA 14" Diameter, 3,300 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	192.26	55.00
For >50 To 100, Deduct	-6.87	
For >100 To 250, Deduct	-11.68	
For >250 To 500, Deduct	-19.23	
For >500, Deduct	-26.78	
26 51 19 00-0466 EA 11" Diameter, 560 Lumens, 7 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED1X611-50)	143.64	50.00
For >50 To 100, Deduct	-5.47	
For >100 To 250, Deduct	-9.06	
For >250 To 500, Deduct	-14.36	
For >500, Deduct	-19.67	
26 51 19 00-0467 EA 11" Diameter, 1,120 Lumens, 10 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED2X611-50)	150.45	50.00
For >50 To 100, Deduct	-5.64	
For >100 To 250, Deduct	-9.40	
For >250 To 500, Deduct	-15.05	
For >500, Deduct	-20.69	
26 51 19 00-0468 EA 11" Diameter, 1,680 Lumens, 14 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED3X611-50)	157.26	50.00
For >50 To 100, Deduct	-5.81	
For >100 To 250, Deduct	-9.74	
For >250 To 500, Deduct	-15.73	
For >500, Deduct	-21.71	
26 51 19 00-0469 EA 11" Diameter, 2,240 Lumens, 17 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED4X611-50)	164.07	50.00
For >50 To 100, Deduct	-5.98	
For >100 To 250, Deduct	-10.08	
For >250 To 500, Deduct	-16.41	
For >500, Deduct	-22.74	
26 51 19 00-0470 EA 14" Diameter, 560 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40)	158.20	55.00
For >50 To 100, Deduct	-6.02	
For >100 To 250, Deduct	-9.97	
For >250 To 500, Deduct	-15.82	
For >500, Deduct	-21.67	
26 51 19 00-0471 EA 14" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40)	165.01	55.00
For >50 To 100, Deduct	-6.19	
For >100 To 250, Deduct	-10.31	
For >250 To 500, Deduct	-16.50	
For >500, Deduct	-22.69	
26 51 19 00-0472 EA 14" Diameter, 1,680 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40)	171.82	55.00
For >50 To 100, Deduct	-6.36	
For >100 To 250, Deduct	-10.65	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.71	
26 51 19 00-0473 EA 14" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40)	178.63	55.00
For >50 To 100, Deduct	-6.53	
For >100 To 250, Deduct	-10.99	
For >250 To 500, Deduct	-17.86	
For >500, Deduct	-24.73	



	Electrical	26
	Lighting	26 50
	Interior Lighting	26 51

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 51 19 00-0474	EA	14" Diameter, 3,360 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	192.26	55.00
		For >50 To 100, Deduct	-6.87	
		For >100 To 250, Deduct	-11.68	
		For >250 To 500, Deduct	-19.23	
		For >500, Deduct	-26.78	
26 51 19 00-0475	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-30)	198.46	59.38
		For >50 To 100, Deduct	-7.21	
		For >100 To 250, Deduct	-12.17	
		For >250 To 500, Deduct	-19.85	
		For >500, Deduct	-27.52	
26 51 19 00-0476	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X619-30)	213.94	59.38
		For >50 To 100, Deduct	-7.60	
		For >100 To 250, Deduct	-12.95	
		For >250 To 500, Deduct	-21.39	
		For >500, Deduct	-29.84	
26 51 19 00-0477	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-30)	210.17	59.38
		For >50 To 100, Deduct	-7.50	
		For >100 To 250, Deduct	-12.76	
		For >250 To 500, Deduct	-21.02	
		For >500, Deduct	-29.28	
26 51 19 00-0478	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-30)	210.10	59.38
		For >50 To 100, Deduct	-7.50	
		For >100 To 250, Deduct	-12.76	
		For >250 To 500, Deduct	-21.01	
		For >500, Deduct	-29.26	
26 51 19 00-0479	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	227.57	59.38
		For >50 To 100, Deduct	-7.94	
		For >100 To 250, Deduct	-13.63	
		For >250 To 500, Deduct	-22.76	
		For >500, Deduct	-31.89	
26 51 19 00-0480	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	221.93	59.38
		For >50 To 100, Deduct	-7.80	
		For >100 To 250, Deduct	-13.35	
		For >250 To 500, Deduct	-22.19	
		For >500, Deduct	-31.04	
26 51 19 00-0481	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	245.53	59.38
		For >50 To 100, Deduct	-8.39	
		For >100 To 250, Deduct	-14.53	
		For >250 To 500, Deduct	-24.55	
		For >500, Deduct	-34.58	
26 51 19 00-0482	EA	19" Diameter, 3,820 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-30)	237.85	59.38
		For >50 To 100, Deduct	-8.20	
		For >100 To 250, Deduct	-14.14	
		For >250 To 500, Deduct	-23.79	
		For >500, Deduct	-33.43	
26 51 19 00-0483	EA	19" Diameter, 4,240 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-30)	237.91	59.38
		For >50 To 100, Deduct	-8.20	
		For >100 To 250, Deduct	-14.15	
		For >250 To 500, Deduct	-23.79	
		For >500, Deduct	-33.44	
26 51 19 00-0484	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12S19-35)	198.46	59.38
		For >50 To 100, Deduct	-7.21	
		For >100 To 250, Deduct	-12.17	
		For >250 To 500, Deduct	-19.85	
		For >500, Deduct	-27.52	
26 51 19 00-0485	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X619-35)	213.94	59.38
		For >50 To 100, Deduct	-7.60	
		For >100 To 250, Deduct	-12.95	
		For >250 To 500, Deduct	-21.39	
		For >500, Deduct	-29.84	
26 51 19 00-0486	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)	210.17	59.38
		For >50 To 100, Deduct	-7.50	
		For >100 To 250, Deduct	-12.76	
		For >250 To 500, Deduct	-21.02	
		For >500, Deduct	-29.28	
26 51 19 00-0487	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12H19-35)	210.10	59.38
		For >50 To 100, Deduct	-7.50	
		For >100 To 250, Deduct	-12.76	
		For >250 To 500, Deduct	-21.01	
		For >500, Deduct	-29.26	
26 51 19 00-0488	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	227.57	59.38
		For >50 To 100, Deduct	-7.94	
		For >100 To 250, Deduct	-13.63	
		For >250 To 500, Deduct	-22.76	
		For >500, Deduct	-31.89	
26 51 19 00-0489	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	221.93	59.38
		For >50 To 100, Deduct	-7.80	
		For >100 To 250, Deduct	-13.35	
		For >250 To 500, Deduct	-22.19	
		For >500, Deduct	-31.04	
26 51 19 00-0490	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	245.53	59.38
		For >50 To 100, Deduct	-8.39	
		For >100 To 250, Deduct	-14.53	
		For >250 To 500, Deduct	-24.55	
		For >500, Deduct	-34.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0491	EA		19" Diameter, 3,820 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12H19-35).....	237.85	59.38
			<i>For >50 To 100, Deduct</i>	-8.20	
			<i>For >100 To 250, Deduct</i>	-14.14	
			<i>For >250 To 500, Deduct</i>	-23.79	
			<i>For >500, Deduct</i>	-33.43	
26 51 19 00-0492	EA		19" Diameter, 4,240 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X12S19-35).....	237.91	59.38
			<i>For >50 To 100, Deduct</i>	-8.20	
			<i>For >100 To 250, Deduct</i>	-14.15	
			<i>For >250 To 500, Deduct</i>	-23.79	
			<i>For >500, Deduct</i>	-33.44	
26 51 19 00-0493	EA		19" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-40).....	198.46	59.38
			<i>For >50 To 100, Deduct</i>	-7.21	
			<i>For >100 To 250, Deduct</i>	-12.17	
			<i>For >250 To 500, Deduct</i>	-19.85	
			<i>For >500, Deduct</i>	-27.52	
26 51 19 00-0494	EA		19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	213.94	59.38
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 250, Deduct</i>	-12.95	
			<i>For >250 To 500, Deduct</i>	-21.39	
			<i>For >500, Deduct</i>	-29.84	
26 51 19 00-0495	EA		19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	210.17	59.38
			<i>For >50 To 100, Deduct</i>	-7.50	
			<i>For >100 To 250, Deduct</i>	-12.76	
			<i>For >250 To 500, Deduct</i>	-21.02	
			<i>For >500, Deduct</i>	-29.28	
26 51 19 00-0496	EA		19" Diameter, 2,000 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-40).....	210.10	59.38
			<i>For >50 To 100, Deduct</i>	-7.50	
			<i>For >100 To 250, Deduct</i>	-12.76	
			<i>For >250 To 500, Deduct</i>	-21.01	
			<i>For >500, Deduct</i>	-29.26	
26 51 19 00-0497	EA		19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	227.57	59.38
			<i>For >50 To 100, Deduct</i>	-7.94	
			<i>For >100 To 250, Deduct</i>	-13.63	
			<i>For >250 To 500, Deduct</i>	-22.76	
			<i>For >500, Deduct</i>	-31.89	
26 51 19 00-0498	EA		19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	221.93	59.38
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 250, Deduct</i>	-13.35	
			<i>For >250 To 500, Deduct</i>	-22.19	
			<i>For >500, Deduct</i>	-31.04	
26 51 19 00-0499	EA		19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	245.53	59.38
			<i>For >50 To 100, Deduct</i>	-8.39	
			<i>For >100 To 250, Deduct</i>	-14.53	
			<i>For >250 To 500, Deduct</i>	-24.55	
			<i>For >500, Deduct</i>	-34.58	
26 51 19 00-0500	EA		19" Diameter, 4,000 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-40).....	237.85	59.38
			<i>For >50 To 100, Deduct</i>	-8.20	
			<i>For >100 To 250, Deduct</i>	-14.14	
			<i>For >250 To 500, Deduct</i>	-23.79	
			<i>For >500, Deduct</i>	-33.43	
26 51 19 00-0501	EA		19" Diameter, 4,400 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-40).....	237.91	59.38
			<i>For >50 To 100, Deduct</i>	-8.20	
			<i>For >100 To 250, Deduct</i>	-14.15	
			<i>For >250 To 500, Deduct</i>	-23.79	
			<i>For >500, Deduct</i>	-33.44	
26 51 19 00-0502	EA		19" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-50).....	198.46	59.38
			<i>For >50 To 100, Deduct</i>	-7.21	
			<i>For >100 To 250, Deduct</i>	-12.17	
			<i>For >250 To 500, Deduct</i>	-19.85	
			<i>For >500, Deduct</i>	-27.52	
26 51 19 00-0503	EA		19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	213.94	59.38
			<i>For >50 To 100, Deduct</i>	-7.60	
			<i>For >100 To 250, Deduct</i>	-12.95	
			<i>For >250 To 500, Deduct</i>	-21.39	
			<i>For >500, Deduct</i>	-29.84	
26 51 19 00-0504	EA		19" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-50).....	210.17	59.38
			<i>For >50 To 100, Deduct</i>	-7.50	
			<i>For >100 To 250, Deduct</i>	-12.76	
			<i>For >250 To 500, Deduct</i>	-21.02	
			<i>For >500, Deduct</i>	-29.28	
26 51 19 00-0505	EA		19" Diameter, 2,010 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-50).....	210.10	59.38
			<i>For >50 To 100, Deduct</i>	-7.50	
			<i>For >100 To 250, Deduct</i>	-12.76	
			<i>For >250 To 500, Deduct</i>	-21.01	
			<i>For >500, Deduct</i>	-29.26	
26 51 19 00-0506	EA		19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	227.57	59.38
			<i>For >50 To 100, Deduct</i>	-7.94	
			<i>For >100 To 250, Deduct</i>	-13.63	
			<i>For >250 To 500, Deduct</i>	-22.76	
			<i>For >500, Deduct</i>	-31.89	
26 51 19 00-0507	EA		19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	221.93	59.38
			<i>For >50 To 100, Deduct</i>	-7.80	
			<i>For >100 To 250, Deduct</i>	-13.35	
			<i>For >250 To 500, Deduct</i>	-22.19	
			<i>For >500, Deduct</i>	-31.04	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0508	EA		19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	245.53	59.38
			For >50 To 100, Deduct	-8.39	
			For >100 To 250, Deduct	-14.53	
			For >250 To 500, Deduct	-24.55	
			For >500, Deduct	-34.58	
26 51 19 00-0509	EA		19" Diameter, 4,020 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-50)	237.85	59.38
			For >50 To 100, Deduct	-8.20	
			For >100 To 250, Deduct	-14.14	
			For >250 To 500, Deduct	-23.79	
			For >500, Deduct	-33.43	
26 51 19 00-0510	EA		19" Diameter, 4,480 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-50)	237.91	59.38
			For >50 To 100, Deduct	-8.20	
			For >100 To 250, Deduct	-14.15	
			For >250 To 500, Deduct	-23.79	
			For >500, Deduct	-33.44	
26 51 19 00-0511			Ceiling Mounted, LED Mushroom Fixtures (Mobern) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0512	EA		14" Diameter, 800 Lumens, 12 Watt, LED Ceiling Fixture (Mobern 6814LED12MV30)	175.64	55.00
			For >50 To 100, Deduct	-6.45	
			For >100 To 250, Deduct	-10.84	
			For >250 To 500, Deduct	-17.56	
			For >500, Deduct	-24.28	
26 51 19 00-0513			Ceiling Mounted, LED Fixtures (Sylvania) <small>(26 51 19 00-0437)</small>		
26 51 19 00-0514	EA		12.5" x 12.5" x 2.32" Deep, 4,200 Lumens, 35 Watt, LED Garage Light Fixture (Sylvania GARAG1/035UNVD740/G5/SV/D)	592.05	59.38
			For >50 To 100, Deduct	-17.05	
			For >100 To 250, Deduct	-31.85	
			For >250 To 500, Deduct	-59.21	
			For >500, Deduct	-86.56	
26 51 19 00-0515	EA		2" x 2', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/22G/WH + SMKIT1A/24A/WH)	239.32	50.00
			For >50 To 100, Deduct	-7.86	
			For >100 To 250, Deduct	-13.84	
			For >250 To 500, Deduct	-23.93	
			For >500, Deduct	-34.02	
26 51 19 00-0516	EA		2" x 4', 32 Watt, 120-277 Volt, 3500K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD835/24G/WH + SMKIT1A/24A/WH)	296.24	58.26
			For >50 To 100, Deduct	-9.59	
			For >100 To 250, Deduct	-17.00	
			For >250 To 500, Deduct	-29.62	
			For >500, Deduct	-42.25	
26 51 19 00-0517	EA		2" x 4', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/24G/WH + SMKIT1A/24A/WH)	299.43	58.26
			For >50 To 100, Deduct	-9.67	
			For >100 To 250, Deduct	-17.16	
			For >250 To 500, Deduct	-29.94	
			For >500, Deduct	-42.73	
26 51 19 00-0518			Refrigeration/Display LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0519			Refrigeration/Display LED Fixtures (Lithonia) <small>(26 51 19 00-0518)</small>		
			Note: Fixtures exclude driver.		
26 51 19 00-0520	EA		5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM)	273.97	58.26
			For >50 To 100, Deduct	-9.04	
			For >100 To 250, Deduct	-15.89	
			For >250 To 500, Deduct	-27.40	
			For >500, Deduct	-38.91	
26 51 19 00-0521	EA		5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSVDRVL RLEM DLC)	366.93	103.14
			For >50 To 100, Deduct	-13.08	
			For >100 To 250, Deduct	-22.25	
			For >250 To 500, Deduct	-36.69	
			For >500, Deduct	-51.13	
26 51 19 00-0522	EA		Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSVDRVL)	335.38	82.51
			For >50 To 100, Deduct	-11.51	
			For >100 To 250, Deduct	-19.89	
			For >250 To 500, Deduct	-33.54	
			For >500, Deduct	-47.18	
26 51 19 00-0523			Pendant Mount, LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0524			Pendant Mount, Circular Architectural LED Fixtures (Delray Lighting) <small>(26 51 19 00-0523)</small>		
26 51 19 00-0525	EA		2,166 Lumens, 2' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 W W35 S)	2,147.35	127.52
			For >50 To 100, Deduct	-59.00	
			For >100 To 250, Deduct	-112.68	
			For >250 To 500, Deduct	-214.74	
			For >500, Deduct	-316.79	

26 Electrical

26 50 Lighting

26 51 Interior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0526	EA	3,250 Lumens, 3' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 W W35 S)	3,217.66	135.01
			For >50 To 100, Deduct	-86.07	
			For >100 To 250, Deduct	-166.51	
			For >250 To 500, Deduct	-321.77	
			For >500, Deduct	-477.02	
26 51	19 00-0527	EA	4,333 Lumens, 4' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 W W35 S)	4,096.07	142.52
			For >50 To 100, Deduct	-108.34	
			For >100 To 250, Deduct	-210.74	
			For >250 To 500, Deduct	-409.61	
			For >500, Deduct	-608.47	
26 51	19 00-0528	EA	5,416 Lumens, 5' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 W W35 S)	5,166.38	150.02
			For >50 To 100, Deduct	-135.41	
			For >100 To 250, Deduct	-264.57	
			For >250 To 500, Deduct	-516.64	
			For >500, Deduct	-768.71	
26 51	19 00-0529	EA	2,166 Lumens, 2' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 S W35 S)	2,274.23	127.52
			For >50 To 100, Deduct	-62.17	
			For >100 To 250, Deduct	-119.02	
			For >250 To 500, Deduct	-227.42	
			For >500, Deduct	-335.82	
26 51	19 00-0530	EA	3,250 Lumens, 3' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 S W35 S)	3,385.77	135.01
			For >50 To 100, Deduct	-90.27	
			For >100 To 250, Deduct	-174.91	
			For >250 To 500, Deduct	-338.58	
			For >500, Deduct	-502.24	
26 51	19 00-0531	EA	4,333 Lumens, 4' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 S W35 S)	4,265.77	142.52
			For >50 To 100, Deduct	-112.58	
			For >100 To 250, Deduct	-219.23	
			For >250 To 500, Deduct	-426.58	
			For >500, Deduct	-633.93	
26 51	19 00-0532	EA	5,416 Lumens, 5' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 S W35 S)	5,356.69	150.02
			For >50 To 100, Deduct	-140.17	
			For >100 To 250, Deduct	-274.09	
			For >250 To 500, Deduct	-535.67	
			For >500, Deduct	-797.25	
26 51	19 00-0533		Pendant Mount, LED Commercial Fixtures (DMF) (26 51 19 00-0523)		
26 51	19 00-0534	EA	3,000 Lumens, 18-1/4" Diameter, Pendant Mount, LED Commercial Fixture (DMF DP610LED)	843.43	75.01
			For >50 To 100, Deduct	-24.21	
			For >100 To 250, Deduct	-45.30	
			For >250 To 500, Deduct	-84.34	
			For >500, Deduct	-123.39	
26 51	19 00-0535		LED Track Lighting Fixtures (26 51 19)		
26 51	19 00-0536	EA	19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cylindra™)	190.99	22.85
			For >50 To 100, Deduct	-5.63	
			For >100 To 250, Deduct	-10.40	
			For >250 To 500, Deduct	-19.10	
			For >500, Deduct	-27.79	
26 51	19 00-0537	EA	18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED)	327.52	22.85
			For >50 To 100, Deduct	-9.04	
			For >100 To 250, Deduct	-17.23	
			For >250 To 500, Deduct	-32.75	
			For >500, Deduct	-48.27	
26 51	19 00-0538	EA	24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33)	196.17	22.85
			For >50 To 100, Deduct	-5.76	
			For >100 To 250, Deduct	-10.66	
			For >250 To 500, Deduct	-19.62	
			For >500, Deduct	-28.57	
26 51	23		HID Interior Lighting (26 51)		
26 51	23 00-0001		Large Interior Area Fixtures (26 51 23)		
26 51	23 00-0002		Recessed Mounted, Large Interior Area Fixtures (26 51 23 00-0001) Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.		
26 51	23 00-0003		High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures (26 51 23 00-0002)		
26 51	23 00-0004	EA	150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	440.78	145.86
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	
26 51	23 00-0005	EA	250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture	460.41	154.88
			For Wire Guard, Add	40.50	
			For Instant Quartz Restrike, Add	60.00	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0006 EA 400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	488.40 40.50 60.00	176.78
26 51 23 00-0007 Metal Halide, Recessed Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0002)</small>		
26 51 23 00-0008 EA 150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	447.81 40.50 60.00	145.86
26 51 23 00-0009 EA 250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	463.38 40.50 60.00	154.88
26 51 23 00-0010 EA 400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	498.52 40.50 60.00	176.78
26 51 23 00-0011 Low Bay Fixtures, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small> Note: Heavy duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet.		
26 51 23 00-0012 High Pressure Sodium, Low Bay Fixtures <small>(26 51 23 00-0011)</small>		
26 51 23 00-0013 EA 150 Watt High Pressure Sodium, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	414.53 40.50 75.47 60.00 90.00	133.27
26 51 23 00-0014 EA 250 Watt High Pressure Sodium, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	428.21 40.50 75.47 60.00 90.00	141.52
26 51 23 00-0015 EA 400 Watt High Pressure Sodium, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	459.54 40.50 75.47 60.00 90.00	161.52
26 51 23 00-0016 Metal Halide, Low Bay Fixtures <small>(26 51 23 00-0011)</small>		
26 51 23 00-0017 EA 175 Watt Metal Halide, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	409.53 40.50 75.47 60.00 90.00	133.27
26 51 23 00-0018 EA 250 Watt Metal Halide, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	422.57 40.50 75.47 60.00 90.00	141.52
26 51 23 00-0019 EA 400 Watt Metal Halide, Low Bay Fixture <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	462.63 40.50 75.47 60.00 90.00	161.52
26 51 23 00-0020 High Bay Fixtures, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small> Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts.		
26 51 23 00-0021 High Pressure Sodium, High Bay Fixtures <small>(26 51 23 00-0020)</small> Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0022 EA 250 Watt High Pressure Sodium, High Bay Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i> <i>For Tempered Glass Or Acrylic Lens, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Security Chain, Add</i> <i>For Optical Safety Chain, Add</i> <i>For Ballast Safety Chain, Add</i>	391.33 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	141.52
26 51 23 00-0023 EA 400 Watt High Pressure Sodium, High Bay Fixture <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i> <i>For Tempered Glass Or Acrylic Lens, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Security Chain, Add</i> <i>For Optical Safety Chain, Add</i> <i>For Ballast Safety Chain, Add</i>	426.55 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	161.52

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0024 EA 1,000 Watt High Pressure Sodium, High Bay Fixture	592.71	169.89
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0025 Metal Halide, High Bay Fixtures <small>(26 51 23 00-0020)</small>		
Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0026 EA 250 Watt Metal Halide, High Bay Fixture	368.35	141.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0027 EA 400 Watt Metal Halide, High Bay Fixture	408.26	161.52
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0028 EA 1,000 Watt Metal Halide, High Bay Fixture	512.29	169.89
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0029 Induction, High Bay Fixtures <small>(26 51 23 00-0020)</small>		
26 51 23 00-0030 Induction, High Bay Fixtures (Everlast®) <small>(26 51 23 00-0029)</small>		
Note: Includes die cast aluminum ballast casing and acrylic lens.		
26 51 23 00-0031 EA 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	478.23	123.77
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0032 EA 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	511.48	127.89
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0033 EA 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	521.45	132.02
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0034 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	565.86	136.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0035 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC)	580.50	140.27
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0036 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	510.81	123.77
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0037 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	544.06	127.89
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0038 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	554.03	132.02
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0039 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	598.44	136.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0040 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC)	613.08	140.27
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0041 Ceiling Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0001)</small>		
Note: Heavy duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.		
26 51 23 00-0042 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures <small>(26 51 23 00-0041)</small>		
26 51 23 00-0043 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	318.41	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0044 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	584.23	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0045 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture	668.77	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	



Electrical	26	26
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0046 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture.....	887.93	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0047 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)		
26 51 23 00-0048 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture.....	332.85	94.83
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0049 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture.....	353.65	105.22
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0050 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture.....	377.34	113.97
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0051 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture.....	421.92	135.74
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0052 High Pressure Sodium, Recessed Fixture Housings (26 51 23)		
26 51 23 00-0053 EA 4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	147.33	39.41
For ICAT Housing, Add	11.42	
26 51 23 00-0054 EA 5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	153.24	39.41
For ICAT Housing, Add	12.18	
26 51 23 00-0055 EA 6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	160.89	41.05
For ICAT Housing, Add	12.81	
26 51 23 00-0056 EA 7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	166.85	42.82
For ICAT Housing, Add	13.23	
26 51 23 00-0057 EA 8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	172.75	44.61
For ICAT Housing, Add	13.64	
26 51 23 00-0058 EA 10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing.....	178.43	47.34
For ICAT Housing, Add	13.84	
26 51 23 00-0059 Metal Halide Track Lighting Fixtures (26 51 23)		
26 51 23 00-0060 EA Metal Halide Track Lighting Fixture.....	94.78	22.85
26 51 23 00-0061 Metal Halide, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0062 EA 75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	192.15	54.73
For Wall Mounted, Add	6.30	
26 51 23 00-0063 EA 100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	197.78	54.73
For Wall Mounted, Add	6.30	
26 51 23 00-0064 EA 150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	209.21	54.73
For Wall Mounted, Add	6.30	
26 51 23 00-0065 EA 175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	226.40	54.73
For Wall Mounted, Add	6.30	
26 51 23 00-0066 High Pressure Sodium, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)		
26 51 23 00-0067 EA 70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	178.75	54.73
For Wall Mounted, Add	6.67	
26 51 23 00-0068 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	185.74	54.73
For Wall Mounted, Add	6.67	
26 51 23 00-0069 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	212.77	54.73
For Wall Mounted, Add	6.67	
26 51 33 Interior Lighting Accessories (26 51)		
26 51 33 00-0001 Accessories And Modifiers For Fixtures (26 51 33)		
26 51 33 00-0002 Lens Modifications (26 51 33 00-0001)		
26 51 33 00-0003 EA For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	30.21	
26 51 33 00-0004 EA For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	37.32	
26 51 33 00-0005 EA For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	39.10	
26 51 33 00-0006 EA For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	42.65	
26 51 33 00-0007 EA For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add.....	51.54	
26 51 33 00-0008 EA For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	12.44	
26 51 33 00-0009 EA For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	17.77	
26 51 33 00-0010 EA For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	19.55	
26 51 33 00-0011 EA For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add.....	23.10	

26	Electrical
26 50	Lighting
26 51	Interior Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 51 33 00-0012	Pendant Mounting Modifications <small>(26 51 33 00-0001)</small>		
	Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture assembly.		
26 51 33 00-0013	EA For Pendant Mounting Up to 1'-6" Long Section.....	13.51	
	Note: Per pendant.		
26 51 33 00-0014	EA For Pendant Mounting 2' Long Section.....	15.64	
	Note: Per pendant.		
26 51 33 00-0015	EA For Pendant Mounting 3' Long Section.....	20.01	
	Note: Per pendant.		
26 51 33 00-0016	EA For Pendant Mounting 4' Long Section.....	23.64	
	Note: Per pendant.		
26 51 33 00-0017	EA For Pendant Mounting 6' Long Section.....	29.86	
	Note: Per pendant.		
26 51 33 00-0018	EA For Pendant Mounting 8' Long Section.....	40.52	
	Note: Per pendant.		
26 51 33 00-0019	Fluorescent Light Accessories <small>(26 51 33 00-0001)</small>		
26 51 33 00-0020	EA Blank Metal Light Box Plate.....	24.28	
26 51 33 00-0021	EA Factory Installed Fixture Mounted Occupancy Sensor.....	136.82	
26 51 33 00-0022	Wire Guards <small>(26 51 33 00-0001)</small>		
26 51 33 00-0023	EA Wire Guard for 6" x 2' Fixture.....	61.22	6.85
26 51 33 00-0024	EA Wire Guard for 6" x 4' Fixture.....	86.53	10.96
26 51 33 00-0025	EA Wire Guard for 1" x 2' Fixture.....	68.28	7.54
26 51 33 00-0026	EA Wire Guard for 1" x 4' Fixture.....	97.41	11.65
26 51 33 00-0027	EA Wire Guard for 2" x 2' Fixture.....	82.96	8.22
26 51 33 00-0028	EA Wire Guard for 2" x 4' Fixture.....	113.97	12.33
26 51 33 00-0029	Lighting Accessories <small>(26 51 33)</small>		
26 51 33 00-0030	Modular Flexible Wiring Systems <small>(26 51 33 00-0029)</small>		
26 51 33 00-0031	EA 10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10).....	90.25	7.38
26 51 33 00-0032	EA 15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15).....	103.74	7.38
26 51 33 00-0033	EA 20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20).....	124.40	7.38
26 51 33 00-0034	EA 15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15).....	103.74	7.38
26 51 33 00-0035	EA 3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E).....	93.23	7.38
26 51 33 00-0036	EA 13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13).....	134.84	7.38
26 51 33 00-0037	EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M).....	75.82	7.38
26 51 33 00-0038	EA 3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....	85.02	7.38
26 51 33 00-0039	EA 7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....	106.51	7.38
26 51 33 00-0040	EA 7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07).....	106.51	7.38
26 51 33 00-0041	EA 7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....	108.24	7.38
26 51 33 00-0042	EA 7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07).....	107.60	7.38
26 51 33 00-0043	EA 7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07).....	107.60	7.38
26 51 33 00-0044	EA 15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15).....	123.09	7.38
26 51 33 00-0045	EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....	58.66	7.38
26 51 33 00-0046	EA 3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E).....	55.04	7.38
26 51 33 00-0047	EA 3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E).....	56.30	7.38
26 51 33 00-0048	EA 3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....	69.70	7.38
26 51 33 00-0049	EA 15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15).....	90.25	7.38
26 51 33 00-0050	EA 15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15).....	92.44	7.38
26 51 33 00-0051	EA Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....	73.03	7.38
26 51 33 00-0052	EA 3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....	55.04	7.38
26 51 33 00-0053	EA Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning.....	61.57	
26 51 33 00-0054	Additional Lighting Wire Whips <small>(26 51 33)</small>		
26 51 33 00-0055	LF For Each Additional LF Of Interior Lighting Wire Whip, Add.....	1.48	
	Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length.		
26 51 33 00-0056	Removal And Reinstallation Of Light Fixtures <small>(26 51 33)</small>		
	Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.		
26 51 33 00-0057	EA Removal And Reinstallation Of Lay-In Fluorescent Light Fixture.....	145.65	
26 51 33 00-0058	EA Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture.....	166.44	
26 52	Safety Lighting <small>(26 50)</small>		
26 52 13	Emergency and Exit Lighting <small>(26 52)</small>		
26 52 13 13	Emergency Lighting <small>(26 52 13)</small>		
26 52 13 13-0001	Commercial Emergency Lights <small>(26 52 13 13)</small>		



Electrical	26	26
Lighting	26 50	
Safety Lighting	26 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights <small>(26 52 13 13-0001)</small>		
<small>Note: Includes lead-calcium batteries and two adjustable lamp heads.</small>		
26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	217.46	34.21
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	154.82	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	236.79	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	273.91	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	401.45	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	453.22	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	654.93	34.21
<i>For Halogen Lamps, Add</i> 27.55		
<i>For Self-Diagnostics, Add</i> 87.50		
26 52 13 13-0010 Remote Heads For Commercial Emergency Lights <small>(26 52 13 13-0001)</small>		
<small>Note: For use with fixtures that have remote capability.</small>		
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	146.06	20.52
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	146.99	20.52
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	150.12	20.52
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	149.62	20.52
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	130.39	20.52
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	92.22	20.52
26 52 13 13-0017 Industrial Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0018)</small>		
<small>Note: Includes lead-calcium batteries and two adjustable lamp heads.</small>		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16)	373.28	34.21
<i>For Wireguard, Add</i> 183.43		
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24)	315.35	34.21
<i>For Wireguard, Add</i> 183.43		
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36)	484.64	34.21
<i>For Wireguard, Add</i> 183.43		
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	513.86	34.21
<i>For Wireguard, Add</i> 183.43		
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	728.11	34.21
<i>For Wireguard, Add</i> 195.37		
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,137.99	34.21
<i>For Wireguard, Add</i> 195.37		
26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights <small>(26 52 13 13-0018)</small>		
<small>Note: For use with fixtures that have remote capability.</small>		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	114.22	20.52
<i>For Wireguard, Add</i> 148.03		
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	117.86	20.52
<i>For Wireguard, Add</i> 148.03		
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812)	114.73	20.52
<i>For Wireguard, Add</i> 148.03		
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	115.32	20.52
<i>For Wireguard, Add</i> 148.03		

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0031	EA	12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	117.86	20.52
		<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0032	EA	12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	136.32	20.52
		<i>For Wireguard, Add</i>	148.03	
26 52 13 13-0033		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0017)</small>		
26 52 13 13-0034		Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618)	368.62	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0036	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	399.53	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0037	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	391.06	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0038	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	412.66	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0039	EA	100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	686.19	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618)	541.80	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	605.32	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	637.50	34.21
		<i>For Wireguard, Add</i>	178.35	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0043		Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights <small>(26 52 13 13-0033)</small>		
		Note: For use with fixtures that have remote capability.		
26 52 13 13-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	100.25	20.52
26 52 13 13-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	107.61	20.52
26 52 13 13-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	100.33	20.52
26 52 13 13-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	105.75	20.52
26 52 13 13-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	91.83	20.52
26 52 13 13-0049		Outdoor Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0050		Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights <small>(26 52 13 13-0049)</small>		
		Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	572.71	34.21
26 52 13 13-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	680.69	34.21
26 52 13 13-0053		Recessed Emergency Lights <small>(26 52 13 13)</small>		
26 52 13 13-0054	EA	10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	621.92	34.21
		<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA	16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	509.63	68.41
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	195.37	



Electrical	26	
Lighting	26 50	26
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0056	EA		50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	718.90	68.41
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			For Wireguard, Add	195.37	
26 52 13 13-0057			Square Wraparound Emergency Lights ^(26 52 13 13)		
26 52 13 13-0058	EA		10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ)	291.86	34.21
26 52 13 16			Exit Signs ^(26 52 13)		
			Note: Excludes pendants.		
26 52 13 16-0001			LED Exit Signs ^(26 52 13 16)		
			Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM).....	185.77	50.01
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-7.14	
			For >100 To 250, Deduct	-11.79	
			For >250 To 500, Deduct	-18.58	
			For >500, Deduct	-25.37	
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM)	185.77	50.01
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-7.14	
			For >100 To 250, Deduct	-11.79	
			For >250 To 500, Deduct	-18.58	
			For >500, Deduct	-25.37	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	249.91	50.01
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-8.75	
			For >100 To 250, Deduct	-15.00	
			For >250 To 500, Deduct	-24.99	
			For >500, Deduct	-34.99	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	249.91	50.01
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-8.75	
			For >100 To 250, Deduct	-15.00	
			For >250 To 500, Deduct	-24.99	
			For >500, Deduct	-34.99	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC).....	272.83	50.01
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-9.32	
			For >100 To 250, Deduct	-16.14	
			For >250 To 500, Deduct	-27.28	
			For >500, Deduct	-38.42	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC)	306.26	50.01
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-10.16	
			For >100 To 250, Deduct	-17.81	
			For >250 To 500, Deduct	-30.63	
			For >500, Deduct	-43.44	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN).....	258.85	50.01
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-8.97	
			For >100 To 250, Deduct	-15.44	
			For >250 To 500, Deduct	-25.89	
			For >500, Deduct	-36.33	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC ELN)	283.12	50.01
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-9.58	
			For >100 To 250, Deduct	-16.66	
			For >250 To 500, Deduct	-28.31	
			For >500, Deduct	-39.97	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM).....	331.62	50.01
			Note: Includes two circular side mounted krypton emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-11.71	
			For >100 To 250, Deduct	-20.00	
			For >250 To 500, Deduct	-33.16	
			For >500, Deduct	-46.32	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM LED).....	313.33	50.01
			Note: Includes two circular side mounted LED emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-11.25	
			For >100 To 250, Deduct	-19.09	
			For >250 To 500, Deduct	-31.33	
			For >500, Deduct	-43.58	

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52	13 16-0012	EA	Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	407.53	50.01
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-13.61	
			For >100 To 250, Deduct	-23.80	
			For >250 To 500, Deduct	-40.75	
			For >500, Deduct	-57.71	
26 52	13 16-0013	EA	Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	425.15	50.01
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-14.05	
			For >100 To 250, Deduct	-24.68	
			For >250 To 500, Deduct	-42.52	
			For >500, Deduct	-60.35	
26 52	13 16-0014	EA	Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	131.74	50.01
			For >50 To 100, Deduct	-5.79	
			For >100 To 250, Deduct	-9.09	
			For >250 To 500, Deduct	-13.17	
			For >500, Deduct	-17.26	
26 52	13 16-0015	EA	120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	132.15	50.08
			For >50 To 100, Deduct	-5.80	
			For >100 To 250, Deduct	-9.11	
			For >250 To 500, Deduct	-13.22	
			For >500, Deduct	-17.32	
26 52	13 16-0016	Edge-Lit LED Exit Signs <small>(26 52 13 16)</small>			
			Note: Includes red LED lamps.		
26 52	13 16-0017	EA	Single Face, Edge-Lit LED Exit Sign.....	370.87	50.01
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-11.77	
			For >100 To 250, Deduct	-21.04	
			For >250 To 500, Deduct	-37.09	
			For >500, Deduct	-53.13	
26 52	13 16-0018	EA	Double Face, Edge-Lit LED Exit Sign.....	396.35	50.01
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-12.41	
			For >100 To 250, Deduct	-22.32	
			For >250 To 500, Deduct	-39.64	
			For >500, Deduct	-56.95	
26 52	13 16-0019	EA	Single Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	449.54	50.01
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-13.74	
			For >100 To 250, Deduct	-24.98	
			For >250 To 500, Deduct	-44.95	
			For >500, Deduct	-64.93	
26 52	13 16-0020	EA	Double Face, Edge-Lit LED Exit Sign With Battery Back-Up.....	468.31	50.01
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-14.21	
			For >100 To 250, Deduct	-25.92	
			For >250 To 500, Deduct	-46.83	
			For >500, Deduct	-67.75	
26 52	13 16-0021	Self-Luminous Tritium Exit Signs <small>(26 52 13 16)</small>			
			Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52	13 16-0022	EA	10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	496.35	50.01
			For >50 To 100, Deduct	-14.91	
			For >100 To 250, Deduct	-27.32	
			For >250 To 500, Deduct	-49.64	
			For >500, Deduct	-71.95	
26 52	13 16-0023	EA	10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	892.25	50.01
			For >50 To 100, Deduct	-24.81	
			For >100 To 250, Deduct	-47.11	
			For >250 To 500, Deduct	-89.23	
			For >500, Deduct	-131.34	
26 52	13 16-0024	EA	20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	586.54	50.01
			For >50 To 100, Deduct	-17.16	
			For >100 To 250, Deduct	-31.83	
			For >250 To 500, Deduct	-58.65	
			For >500, Deduct	-85.48	
26 52	13 16-0025	EA	20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign.....	964.66	50.01
			For >50 To 100, Deduct	-26.62	
			For >100 To 250, Deduct	-50.73	
			For >250 To 500, Deduct	-96.47	
			For >500, Deduct	-142.20	
26 52	13 16-0026	EA	10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	541.23	50.01
			For >50 To 100, Deduct	-16.03	
			For >100 To 250, Deduct	-29.56	
			For >250 To 500, Deduct	-54.12	
			For >500, Deduct	-78.68	



Electrical	26	
Lighting	26 50	26
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0027	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	964.66	50.01
			<i>For >50 To 100, Deduct</i>	-26.62	
			<i>For >100 To 250, Deduct</i>	-50.73	
			<i>For >250 To 500, Deduct</i>	-96.47	
			<i>For >500, Deduct</i>	-142.20	
26 52 13 16-0028	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	658.52	50.01
			<i>For >50 To 100, Deduct</i>	-18.96	
			<i>For >100 To 250, Deduct</i>	-35.43	
			<i>For >250 To 500, Deduct</i>	-65.85	
			<i>For >500, Deduct</i>	-96.28	
26 52 13 16-0029	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign.....	1,191.62	50.01
			<i>For >50 To 100, Deduct</i>	-32.29	
			<i>For >100 To 250, Deduct</i>	-62.08	
			<i>For >250 To 500, Deduct</i>	-119.16	
			<i>For >500, Deduct</i>	-176.24	
26 52 13 16-0030			Vandal-Resistant LED Exit Signs (26 52 13 16)		
			Note: Includes red LED lamps.		
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign.....	469.67	50.01
			<i>For >50 To 100, Deduct</i>	-14.24	
			<i>For >100 To 250, Deduct</i>	-25.98	
			<i>For >250 To 500, Deduct</i>	-46.97	
			<i>For >500, Deduct</i>	-67.95	
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup	714.84	50.01
			<i>For >50 To 100, Deduct</i>	-20.37	
			<i>For >100 To 250, Deduct</i>	-38.24	
			<i>For >250 To 500, Deduct</i>	-71.48	
			<i>For >500, Deduct</i>	-104.73	
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup.....	865.15	50.01
			<i>For >50 To 100, Deduct</i>	-24.13	
			<i>For >100 To 250, Deduct</i>	-45.76	
			<i>For >250 To 500, Deduct</i>	-86.52	
			<i>For >500, Deduct</i>	-127.27	
26 52 13 16-0034			Removal And Reinstallation Of Exit Light Fixture (26 52 13 16)		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures	102.62	
			Note: Includes storage and cleaning.		
			<i>For >50 To 100, Deduct</i>	-5.13	
			<i>For >100 To 250, Deduct</i>	-7.70	
			<i>For >250 To 500, Deduct</i>	-10.26	
			<i>For >500, Deduct</i>	-12.83	
26 52 13 16-0036			Exit Sign Accessories (26 52 13 16)		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs.....	112.07	13.71
			<i>For >50 To 100, Deduct</i>	-3.49	
			<i>For >100 To 250, Deduct</i>	-6.29	
			<i>For >250 To 500, Deduct</i>	-11.21	
			<i>For >500, Deduct</i>	-16.13	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights.....	68.30	13.71
			<i>For >50 To 100, Deduct</i>	-2.39	
			<i>For >100 To 250, Deduct</i>	-4.10	
			<i>For >250 To 500, Deduct</i>	-6.83	
			<i>For >500, Deduct</i>	-9.56	
26 52 13 16-0039	EA		Wire Guard For Combination Exit Sign And Emergency Light.....	103.71	10.96
			<i>For >50 To 100, Deduct</i>	-3.14	
			<i>For >100 To 250, Deduct</i>	-5.73	
			<i>For >250 To 500, Deduct</i>	-10.37	
			<i>For >500, Deduct</i>	-15.01	
26 52 13 16-0040	EA		Removal And Replacement Of Battery For Exit Signs.....	113.77	
			<i>For >50 To 100, Deduct</i>	-3.70	
			<i>For >100 To 250, Deduct</i>	-6.55	
			<i>For >250 To 500, Deduct</i>	-11.38	
			<i>For >500, Deduct</i>	-16.21	

26 54 Classified Location Lighting (26 50)

26 54 19 LED Classified Location Lighting (26 54)

26 54 19 00-0001 Class I Division 2, Hazardous Location, LED Fixtures (26 54 19)

26 54 19 00-0002 Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV) (26 54 19 00-0001)

Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.

26	Electrical
26 50	Lighting
26 54	Classified Location Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0003	EA		5,183 Lumens, 45 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV5L).....	2,361.44	112.51
			For Bolt-On Visor, Add	89.03	
			For Bolt-On Wire Guard, Add	183.12	
			For 480 Volt, Add	156.78	
			For Warm White Color Rendering, Add	66.57	
			For >50 To 100, Deduct	-63.72	
			For >100 To 250, Deduct	-122.76	
			For >250 To 500, Deduct	-236.14	
			For >500, Deduct	-349.53	
26 54 19 00-0004	EA		7,095 Lumens, 62 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV7L).....	2,886.79	120.01
			For Bolt-On Visor, Add	89.03	
			For Bolt-On Wire Guard, Add	183.12	
			For 480 Volt, Add	156.78	
			For Warm White Color Rendering, Add	66.57	
			For >50 To 100, Deduct	-77.17	
			For >100 To 250, Deduct	-149.34	
			For >250 To 500, Deduct	-288.68	
			For >500, Deduct	-428.02	
26 54 19 00-0005	EA		9,132 Lumens, 79 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV9L).....	3,258.33	127.52
			For Bolt-On Visor, Add	89.03	
			For Bolt-On Wire Guard, Add	183.12	
			For 480 Volt, Add	156.78	
			For Warm White Color Rendering, Add	66.57	
			For >50 To 100, Deduct	-86.77	
			For >100 To 250, Deduct	-168.23	
			For >250 To 500, Deduct	-325.83	
			For >500, Deduct	-483.44	
26 54 19 00-0006	EA		11,107 Lumens, 99 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV11L).....	3,640.09	135.01
			For Bolt-On Visor, Add	89.03	
			For Bolt-On Wire Guard, Add	183.12	
			For 480 Volt, Add	156.78	
			For Warm White Color Rendering, Add	66.57	
			For >50 To 100, Deduct	-96.63	
			For >100 To 250, Deduct	-187.63	
			For >250 To 500, Deduct	-364.01	
			For >500, Deduct	-540.39	
26 54 19 00-0007			Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC) ^(26 54 19 00-0001) Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0008	EA		1,600 Lumens, 25 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC).....	1,407.93	105.02
			For 12/24 Volt DC Driver, Add	25.30	
			For Frosted Lens, Add	51.71	
			For Warm White Color Temperature LEDs, Add	66.57	
			For 55 Degree Ambient Suitability (AC Only) Option, Add	34.45	
			For Stanchion Mount, Add	213.31	
			For Ceiling Mount, Add	85.54	
			For Wall Mount, Add	124.86	
			For Teflon Coated Lens, Add	109.75	
			For Wall Mount With Junction Box, Add	182.31	
			For >50 To 100, Deduct	-39.57	
			For >100 To 250, Deduct	-74.77	
			For >250 To 500, Deduct	-140.79	
			For >500, Deduct	-206.81	
26 54 19 00-0009			Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV) ^(26 54 19 00-0001) Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0010	EA		3,240 Lumens, 47 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L).....	2,219.10	105.02
			For Ceiling Mount, Add	16.37	
			For Quick Clip Mounting Option, Add	24.05	
			For Frosted Lens, Add	51.71	
			For Warm White Color Rendering, Add	66.57	
			For Polycarbonate Lens, Add	95.84	
			For 480 Volt, Add	156.78	
			For >50 To 100, Deduct	-59.85	
			For >100 To 250, Deduct	-115.33	
			For >250 To 500, Deduct	-221.91	
			For >500, Deduct	-328.49	



Electrical	26
Lighting	26 50
Classified Location Lighting	26 54

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0011 EA 3,778 Lumens, 63 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L)	2,456.89	112.51
For Ceiling Mount, Add	16.37	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Polycarbonate Lens, Add	95.84	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-66.11	
For >100 To 250, Deduct	-127.53	
For >250 To 500, Deduct	-245.69	
For >500, Deduct	-363.85	
26 54 19 00-0012 EA 6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L)	2,751.21	120.01
For Ceiling Mount, Add	16.37	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Polycarbonate Lens, Add	95.84	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-73.78	
For >100 To 250, Deduct	-142.56	
For >250 To 500, Deduct	-275.12	
For >500, Deduct	-407.68	
26 54 19 00-0013 EA 6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L)	3,575.78	127.52
For Ceiling Mount, Add	16.37	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Polycarbonate Lens, Add	95.84	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-94.71	
For >100 To 250, Deduct	-184.10	
For >250 To 500, Deduct	-357.58	
For >500, Deduct	-531.05	
26 54 19 00-0014 EA 9,720 Lumens, 137 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L)	4,099.25	135.01
For Ceiling Mount, Add	16.37	
For Quick Clip Mounting Option, Add	24.05	
For Frosted Lens, Add	51.71	
For Warm White Color Rendering, Add	66.57	
For Polycarbonate Lens, Add	95.84	
For 480 Volt, Add	156.78	
For >50 To 100, Deduct	-108.11	
For >100 To 250, Deduct	-210.59	
For >250 To 500, Deduct	-409.93	
For >500, Deduct	-609.26	
26 54 19 00-0015 Class I Division 1, Explosion Proof, LED Fixtures ^(26 54 19)		
26 54 19 00-0016 Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL) ^(26 54 19 00-0015)		
Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0017 EA 5,625 Lumens, 80 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L)	3,135.92	112.51
For Wall Mount, Deduct	-11.76	
For Warm Color Temperature LEDs, Add	63.40	
For Stainless Steel Guard, Add	113.80	
For Ceiling Mount, Add	137.28	
For Stanchion Mount, Add	159.77	
For Yoke Mount, Add	399.42	
For >50 To 100, Deduct	-83.09	
For >100 To 250, Deduct	-161.48	
For >250 To 500, Deduct	-313.59	
For >500, Deduct	-465.70	
26 54 19 00-0018 EA 6,750 Lumens, 100 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L)	3,804.65	120.01
For Wall Mount, Deduct	-11.76	
For Warm Color Temperature LEDs, Add	63.40	
For Stainless Steel Guard, Add	113.80	
For Ceiling Mount, Add	137.28	
For Stanchion Mount, Add	159.77	
For Yoke Mount, Add	399.42	
For >50 To 100, Deduct	-100.12	
For >100 To 250, Deduct	-195.23	
For >250 To 500, Deduct	-380.47	
For >500, Deduct	-565.70	

26 Electrical
26 50 Lighting
 26 54 Classified Location Lighting



MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54 19 00-0019	EA	9,000 Lumens, 130 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....	4,413.82	127.52
		<i>For Wall Mount, Deduct</i>	-11.76	
		<i>For Warm Color Temperature LEDs, Add</i>	63.40	
		<i>For Stainless Steel Guard, Add</i>	113.80	
		<i>For Ceiling Mount, Add</i>	137.28	
		<i>For Stanchion Mount, Add</i>	159.77	
		<i>For Yoke Mount, Add</i>	399.42	
		<i>For >50 To 100, Deduct</i>	-115.66	
		<i>For >100 To 250, Deduct</i>	-226.00	
		<i>For >250 To 500, Deduct</i>	-441.38	
		<i>For >500, Deduct</i>	-656.76	
26 54 19 00-0020	EA	10,500 Lumens, 151 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....	5,034.10	135.01
		<i>For Wall Mount, Deduct</i>	-11.76	
		<i>For Warm Color Temperature LEDs, Add</i>	63.40	
		<i>For Stainless Steel Guard, Add</i>	113.80	
		<i>For Ceiling Mount, Add</i>	137.28	
		<i>For Stanchion Mount, Add</i>	159.77	
		<i>For Yoke Mount, Add</i>	399.42	
		<i>For >50 To 100, Deduct</i>	-131.48	
		<i>For >100 To 250, Deduct</i>	-257.33	
		<i>For >250 To 500, Deduct</i>	-503.41	
		<i>For >500, Deduct</i>	-749.49	
26 54 19 00-0021	EA	13,500 Lumens, 175 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....	5,826.17	130.01
		<i>For Wall Mount, Deduct</i>	-11.76	
		<i>For Warm Color Temperature LEDs, Add</i>	63.40	
		<i>For Stainless Steel Guard, Add</i>	113.80	
		<i>For Ceiling Mount, Add</i>	137.28	
		<i>For Stanchion Mount, Add</i>	159.77	
		<i>For Yoke Mount, Add</i>	399.42	
		<i>For >50 To 100, Deduct</i>	-151.59	
		<i>For >100 To 250, Deduct</i>	-297.25	
		<i>For >250 To 500, Deduct</i>	-582.62	
		<i>For >500, Deduct</i>	-867.99	
26 55 Special Purpose Lighting <small>(26 50)</small>				
26 55 13 Landscape Lighting <small>(26 55)</small>				
26 55 13 00-0001		Bollards <small>(26 55 13)</small> Note: Excludes concrete base.		
26 55 13 00-0002		Aluminum Architectural Bollards <small>(26 55 13 00-0001)</small>		
26 55 13 00-0003		High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
26 55 13 00-0004		Square, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>		
26 55 13 00-0005	EA	24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,338.49	116.31
26 55 13 00-0006	EA	30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,352.17	123.14
26 55 13 00-0007	EA	36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,365.85	129.98
26 55 13 00-0008	EA	42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,272.75	136.83
26 55 13 00-0009	EA	24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,338.49	116.31
26 55 13 00-0010	EA	30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,352.17	123.14
26 55 13 00-0011	EA	36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,365.85	129.98
26 55 13 00-0012	EA	42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,272.75	136.83
26 55 13 00-0013	EA	24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,338.49	116.31
26 55 13 00-0014	EA	30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,352.17	123.14
26 55 13 00-0015	EA	36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,365.85	129.98
26 55 13 00-0016	EA	42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,272.75	136.83
26 55 13 00-0017	EA	24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,338.49	116.31
26 55 13 00-0018	EA	30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,352.17	123.14
26 55 13 00-0019	EA	36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,365.85	129.98
26 55 13 00-0020	EA	42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,272.75	136.83
26 55 13 00-0021 Round, High Pressure Sodium, Aluminum Architectural Bollards <small>(26 55 13 00-0003)</small>				
26 55 13 00-0022	EA	24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0023	EA	30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0024	EA	36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0025	EA	42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0026	EA	24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0027	EA	30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0028	EA	36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0029	EA	42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0030	EA	24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0031	EA	30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0032	EA	36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0033	EA	42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83
26 55 13 00-0034	EA	24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,289.45	116.31
26 55 13 00-0035	EA	30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,303.13	123.14
26 55 13 00-0036	EA	36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,316.81	129.98
26 55 13 00-0037	EA	42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,223.26	136.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 55 13 00-0038	Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)	
26 55 13 00-0039	Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)	
26 55 13 00-0040	EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,402.16 116.31
26 55 13 00-0041	EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,415.84 123.14
26 55 13 00-0042	EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,429.52 129.98
26 55 13 00-0043	EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,335.97 136.83
26 55 13 00-0044	EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,402.16 116.31
26 55 13 00-0045	EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,415.84 123.14
26 55 13 00-0046	EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,429.52 129.98
26 55 13 00-0047	EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,335.97 136.83
26 55 13 00-0048	EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,402.16 116.31
26 55 13 00-0049	EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,415.84 123.14
26 55 13 00-0050	EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,429.52 129.98
26 55 13 00-0051	EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,389.26 136.83

26 55 13 00-0052	Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)	
26 55 13 00-0053	EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,352.68 116.31
26 55 13 00-0054	EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,366.36 123.14
26 55 13 00-0055	EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,380.04 129.98
26 55 13 00-0056	EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard.....	1,286.49 136.83
26 55 13 00-0057	EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,352.68 116.31
26 55 13 00-0058	EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,366.36 123.14
26 55 13 00-0059	EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,380.04 129.98
26 55 13 00-0060	EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard.....	1,286.49 136.83
26 55 13 00-0061	EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,352.68 116.31
26 55 13 00-0062	EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,366.36 123.14
26 55 13 00-0063	EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,380.04 129.98
26 55 13 00-0064	EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard.....	1,286.49 136.83

26 55 13 00-0065	Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)	
26 55 13 00-0066	Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)	
26 55 13 00-0067	EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,332.90 116.31
26 55 13 00-0068	EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,346.58 123.14
26 55 13 00-0069	EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,360.26 129.98
26 55 13 00-0070	EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,268.17 136.83
26 55 13 00-0071	EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,332.90 116.31
26 55 13 00-0072	EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,346.58 123.14
26 55 13 00-0073	EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,360.26 129.98
26 55 13 00-0074	EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,268.17 136.83
26 55 13 00-0075	EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,332.90 116.31
26 55 13 00-0076	EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,346.58 123.14
26 55 13 00-0077	EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,360.26 129.98
26 55 13 00-0078	EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,268.17 136.83

26 55 13 00-0079	Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)	
26 55 13 00-0080	EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,284.50 116.31
26 55 13 00-0081	EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,298.18 123.14
26 55 13 00-0082	EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,311.86 129.98
26 55 13 00-0083	EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,220.70 136.83
26 55 13 00-0084	EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,284.50 116.31
26 55 13 00-0085	EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,298.18 123.14
26 55 13 00-0086	EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,311.86 129.98
26 55 13 00-0087	EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,220.70 136.83
26 55 13 00-0088	EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,284.50 116.31
26 55 13 00-0089	EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,298.18 123.14
26 55 13 00-0090	EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,311.86 129.98
26 55 13 00-0091	EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard.....	1,220.70 136.83

26 55 13 00-0092	LED, Aluminum Architectural Bollards (26 55 13 00-0002)	
26 55 13 00-0093	Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)	
26 55 13 00-0094	EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,584.24 116.31
26 55 13 00-0095	EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,597.92 123.14
26 55 13 00-0096	EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,611.60 129.98
26 55 13 00-0097	EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard.....	1,520.85 136.83
26 55 13 00-0098	EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	1,921.22 116.31
26 55 13 00-0099	EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	1,934.90 123.14
26 55 13 00-0100	EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	1,948.58 129.98
26 55 13 00-0101	EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard.....	1,856.15 136.83

26 55 13 00-0102	Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)	
26 55 13 00-0103	EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,533.97 116.31

26	26 Electrical
	26 50 Lighting
	26 55 Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,547.65	123.14
26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,561.33	129.98
26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,468.90	136.83
26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,870.95	116.31
26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,884.63	123.14
26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,898.31	129.98
26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	1,806.48	136.83
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,442.84	342.07
26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard.....	2,461.63	456.04
26 55 13 00-0114 Low Voltage (26 55 13)		
26 55 13 00-0115 EA Low Voltage Recessed Uplight.....	747.48	249.03
26 55 13 00-0116 EA Low Voltage Walkway.....	498.54	136.83
26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set.....	528.89	182.67
26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier.....	441.30	136.83
26 55 13 00-0119 Recessed, Adjustable (26 55 13)		
26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	818.08	218.92
26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	879.41	218.92
26 55 13 00-0122 Recessed, Uplight (26 55 13)		
26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight.....	748.57	218.92
26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight.....	760.84	218.92
26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight.....	797.64	218.92
26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight.....	793.55	218.92
26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight.....	1,052.82	218.92
26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight.....	1,146.68	218.92
26 55 13 00-0129 Recessed Wall Light (26 55 13)		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	404.50	136.83
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light.....	392.24	136.83
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	606.58	182.67
26 55 13 00-0133 Step Lights (26 55 13)		
26 55 13 00-0134 EA Incandescent Step Light.....	329.25	109.46
26 55 13 00-0135 EA Fluorescent Step Light.....	370.21	109.46
26 55 13 00-0136 EA 5 Watt, LED Step Light.....	572.46	109.46
26 55 13 00-0137 EA 15 Watt, LED Step Light.....	672.58	109.46
26 55 13 00-0138 Tree Lights, Surface Adjustable (26 55 13)		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights.....	659.73	182.67
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights.....	672.00	182.67
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights.....	874.41	273.66
26 55 16 Walkway Lighting (26 55)		
26 55 16 00-0001 Incandescent Walkway (26 55 16)		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	450.38	127.25
26 55 16 00-0003 Metal Halide Walkway (26 55 16)		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture.....	693.26	200.04
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture.....	733.32	207.30
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture.....	789.21	215.23
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture.....	845.60	232.61
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture.....	755.04	215.23
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture.....	759.02	200.04
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture.....	774.36	207.30
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture.....	609.83	142.57
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture.....	644.01	142.57
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture.....	678.20	142.57
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture.....	765.61	160.49
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	581.00	128.07
26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture.....	629.13	200.04
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture.....	663.61	207.30
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture.....	710.70	215.23



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0020	EA		Post Top 400 Watt High Pressure Sodium Walkway Fixture	762.43	232.61
26 55 16 00-0021	EA		Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	683.99	215.23
26 55 16 00-0022	EA		Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	680.51	200.04
26 55 16 00-0023	EA		Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	695.67	207.30
26 55 16 00-0024	EA		Spherical 100 Watt High Pressure Sodium Walkway Fixture	538.78	142.57
26 55 16 00-0025	EA		Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	565.49	142.57
26 55 16 00-0026	EA		Spherical 250 Watt High Pressure Sodium Walkway Fixture	592.20	142.57
26 55 16 00-0027	EA		Spherical 400 Watt High Pressure Sodium Walkway Fixture	668.39	160.49
26 55 16 00-0028	EA		Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	447.86	128.07
26 55 16 00-0029			Walkway, Adjustable (26 55 16)		
26 55 16 00-0030	EA		2' Fluorescent Adjustable Walkway Fixture	652.07	182.67
26 55 16 00-0031	EA		4' Fluorescent Adjustable Walkway Fixture	668.94	182.67
26 55 16 00-0032	EA		8' Fluorescent Adjustable Walkway Fixture	1,143.26	273.66
26 55 16 00-0033	EA		50 Watt Incandescent Adjustable Walkway Fixture	543.52	136.83
26 55 16 00-0034	EA		150 Watt Incandescent Adjustable Walkway Fixture	566.01	136.83
26 55 16 00-0035			LED Walkway (26 55 16)		
26 55 16 00-0036			LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.					
26 55 16 00-0037	EA		13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	740.48	105.02
For Multi-Level Drive Currents, Add				179.10	
26 55 16 00-0038	EA		18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	762.23	105.02
For Multi-Level Drive Currents, Add				179.10	
26 55 16 00-0039	EA		36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	800.61	105.02
For Multi-Level Drive Currents, Add				179.10	
26 55 16 00-0040	EA		42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	830.03	105.02
For Multi-Level Drive Currents, Add				179.10	
26 55 16 00-0041	EA		96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	963.20	135.01
For Multi-Level Drive Currents, Add				179.10	
26 55 16 00-0042			Wall Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0043	EA		Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)	3,699.16	
Note: Type Fixture 17 as Post					
26 55 16 00-0044			Pole Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0045	EA		43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	3,428.34	
26 55 16 00-0046	EA		12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12)	3,367.93	
Note: Washers and nuts included					
26 55 29			Underwater Lighting (26 55)		
26 55 29 00-0001			Underwater Lights (26 55 29)		
26 55 29 00-0002	EA		150 Watt, 120 Volt Underwater Lights	496.83	90.99
26 55 29 00-0003	EA		300 Watt, 120 Volt Underwater Lights	545.89	90.99
26 55 29 00-0004	EA		1,000 Watt, 120 Volt Underwater Lights	1,275.42	136.83
26 55 29 00-0005	EA		50 Watt, 12 Volt Underwater Lights	517.27	90.99
26 55 29 00-0006	EA		300 Watt, 12 Volt Underwater Lights	574.52	90.99
26 55 29 00-0007	SET		Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,452.86	205.24
26 55 53			Security Lighting (26 55)		
26 55 53 11			Security Flood Lighting (26 55 53)		
26 55 53 11-0001			General Electric Powerflood® Flood Lights (26 55 53 11)		
26 55 53 11-0002			MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.					
26 55 53 11-0003			High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0004	EA		70 Watt High Pressure Sodium MPF Series GE Flood Light.....	363.02	112.04
26 55 53 11-0005	EA		100 Watt High Pressure Sodium MPF Series GE Flood Light	365.80	112.04
26 55 53 11-0006	EA		150 Watt High Pressure Sodium MPF Series GE Flood Light	370.43	112.04
26 55 53 11-0007			Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0008	EA		70 Watt Metal Halide MPF Series GE Flood Light	473.26	112.04
26 55 53 11-0009			P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.					

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0010 High Pressure Sodium P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light	698.04	149.37
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light	701.74	149.37
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light	708.23	149.37
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light	781.41	149.37
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light	802.72	149.37
26 55 53 11-0016 Metal Halide P-154 Series GE Flood Lights <small>(26 55 53 11-0009)</small>		
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light	691.55	149.37
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light	723.98	149.37
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light	740.65	149.37
26 55 53 11-0020 PF-154 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0021 High Pressure Sodium PF-154 Series GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light	719.63	168.05
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light	724.26	168.05
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light	731.67	168.05
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light	803.93	168.05
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light	824.31	168.05
26 55 53 11-0027 Metal Halide PF-154 GE Flood Lights <small>(26 55 53 11-0020)</small>		
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light	714.07	168.05
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light	745.57	168.05
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light	762.24	168.05
26 55 53 11-0031 PF-400 (Medium Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0032 High Pressure Sodium PF-400 Series GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light	938.26	168.05
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,003.11	168.05
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light	998.48	168.05
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,021.64	168.05
26 55 53 11-0037 Metal Halide PF-400 GE Flood Lights <small>(26 55 53 11-0031)</small>		
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light	962.35	168.05
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light	981.80	168.05
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light	1,002.18	168.05
26 55 53 11-0041 PF-1000 (Large Size) Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0042 High Pressure Sodium PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light	1,252.60	186.72
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light	1,252.60	186.72
26 55 53 11-0045 Metal Halide PF-1000 Series GE Flood Lights <small>(26 55 53 11-0041)</small>		
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light	1,198.87	186.72
26 55 53 11-0047 HLU/VLU (Medium Size) FRP Series GE Flood Lights <small>(26 55 53 11-0001)</small>		
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0048 High Pressure Sodium HLU/VLU FRP Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,027.19	168.05
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,044.80	168.05
26 55 53 11-0051 Metal Halide HLU/VLU Series GE Flood Lights <small>(26 55 53 11-0047)</small>		
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light	1,037.38	168.05
26 55 53 11-0053 Accessories For Powerflood GE Flood Lights <small>(26 55 53 11-0001)</small>		
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light	181.23	37.35



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	112.67	37.35
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light	155.29	37.35
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light	122.86	37.35
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	318.55	112.04
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light	133.05	37.35
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light	249.07	112.04
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light	257.41	112.04
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light	104.33	37.35
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light	101.56	37.35
26 55 53 11-0064 Lithonia Contour Series Flood Lights (26 55 53 11)		
26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	648.72	149.37
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	702.21	149.37
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light	754.59	149.37
26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	819.95	149.37
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	807.08	149.37
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	786.32	149.37
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	784.79	149.37
26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	814.62	149.37
26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	964.79	168.05
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	982.63	168.05
26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....	924.70	168.05
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....	924.70	168.05
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....	952.67	168.05
26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	918.56	149.37
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	945.26	149.37
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	967.57	149.37
26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light	909.63	149.37
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light	936.36	149.37
26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064)		
Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	1,733.18	186.72
26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light	1,354.23	186.72
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light	1,487.96	186.72
26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0100 EA Wireguard For Contour Series Lithonia Flood Light.....	158.75	37.35
26 55 53 11-0101 EA Vandal Guard For Contour Series Lithonia Flood Light.....	290.02	37.35
26 55 53 11-0102 EA Upper Visor For Contour Series Lithonia Flood Light.....	133.98	37.35
26 55 53 11-0103 EA Full Visor For Contour Series Lithonia Flood Light.....	174.09	37.35
26 55 53 11-0104 EA Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	402.35	112.04
26 55 53 11-0105 EA Radius Wall Bracket For Contour Series Lithonia Flood Light.....	331.37	112.04
26 55 53 11-0106 EA Steel Angle Bracket For Contour Series Lithonia Flood Light.....	331.37	112.04
26 55 53 11-0107 EA U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	359.68	112.04
26 55 53 11-0108 EA Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	152.66	37.35
26 55 53 11-0109 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	125.46	37.35
26 55 53 11-0110 Eaton Flood Lights (26 55 53 11)		
26 55 53 11-0111 EA 6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	979.07	149.37
For NEMA Photocontrol Option (Eaton OA/RA1016), Add	48.01	
For >50 To 100, Deduct	-31.95	
For >100 To 250, Deduct	-56.42	
For >250 To 500, Deduct	-97.91	
For >500, Deduct	-139.39	
26 55 53 11-0112 EA 16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,208.93	165.48
For >50 To 100, Deduct	-38.50	
For >100 To 250, Deduct	-68.72	
For >250 To 500, Deduct	-120.89	
For >500, Deduct	-173.07	
26 55 53 11-0113 Ruud Flood Lights (26 55 53 11)		
26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113) Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0116 EA 35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	433.43	112.04
26 55 53 11-0117 EA 50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	433.43	112.04
26 55 53 11-0118 EA 70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	433.43	112.04
26 55 53 11-0119 EA 100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	433.43	112.04
26 55 53 11-0120 EA 150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	433.43	112.04
26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0122 EA 50 Watt Metal Halide NS Series Ruud Flood Light.....	485.30	112.04
26 55 53 11-0123 EA 70 Watt Metal Halide NS Series Ruud Flood Light.....	485.30	112.04
26 55 53 11-0124 EA 100 Watt Metal Halide NS Series Ruud Flood Light.....	485.30	112.04
26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)		
26 55 53 11-0126 EA 13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	379.70	112.04
26 55 53 11-0127 EA 26 Watt Compact Fluorescent NS Series Ruud Flood Light.....	392.66	112.04
26 55 53 11-0128 EA 32 Watt Compact Fluorescent NS Series Ruud Flood Light.....	396.37	112.04
26 55 53 11-0129 EA 42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	400.08	112.04
26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113) Note: The NSF is suited for large open areas and facade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0132 EA 150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	665.90	168.05
26 55 53 11-0133 EA 250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	699.25	168.05
26 55 53 11-0134 EA 400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	717.78	168.05
26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0136 EA 175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	658.49	168.05
26 55 53 11-0137 EA 250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	662.19	168.05
26 55 53 11-0138 EA 400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	673.31	168.05
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)		
26 55 53 11-0140 EA 70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	645.52	168.05
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: For signs, large open areas and facade applications. Yoke or slip fitter mounting.		
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0143 EA 250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	764.10	168.05
26 55 53 11-0144 EA 400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	767.80	168.05
26 55 53 11-0145 EA 1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,253.53	186.72



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	764.10	168.05
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	767.80	168.05
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	778.92	168.05
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,131.25	186.72
26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	608.18	149.37
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	647.09	149.37
26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	660.06	149.37
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	639.68	149.37
26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	654.50	149.37
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	693.41	149.37
26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)		
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	706.38	149.37
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	686.00	149.37
26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	851.18	168.05
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	869.71	168.05
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,299.85	186.72
26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	810.42	168.05
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	814.12	168.05
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	825.24	168.05
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	1,177.57	186.72
26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
26 55 53 11-0186 High Pressure Sodium CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	1,084.93	186.72
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,277.62	186.72
26 55 53 11-0189 Metal Halide CN Series Ruud Flood Lights (26 55 53 11-0185)		
26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light.....	1,040.46	186.72
26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,155.33	186.72
26 55 53 11-0192 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 55 53 11-0113) Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
26 55 53 11-0193 High Pressure Sodium PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	877.12	168.05

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	895.65	168.05
26 55 53 11-0196 Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	836.36	168.05
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	840.06	168.05
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	851.18	168.05
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,203.50	186.72
26 55 53 11-0201 Accessories For Ruud Flood Lighting (26 55 53 11-0113)		
26 55 53 11-0202 EA Wireguard For Ruud Flood Light.....	102.48	37.35
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Ruud Flood Light.....	152.51	37.35
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Ruud Flood Light.....	115.45	37.35
26 55 53 11-0205 EA Vandal Shield For Ruud Flood Light.....	133.98	37.35
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light.....	287.06	112.04
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	91.37	37.35
26 55 53 11-0208 Lumark Flood Lights (26 55 53 11)		
26 55 53 11-0209 QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	261.95	112.04
26 55 53 11-0211 LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light.....	316.61	112.04
26 55 53 11-0213 Kim Lighting (26 55 53 11)		
26 55 53 11-0214 MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215 LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)		
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	460.63	47.96
For >50 To 100, Deduct	-13.91	
For >100 To 250, Deduct	-25.43	
For >250 To 500, Deduct	-46.06	
For >500, Deduct	-66.70	
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	563.43	47.96
For >50 To 100, Deduct	-16.48	
For >100 To 250, Deduct	-30.57	
For >250 To 500, Deduct	-56.34	
For >500, Deduct	-82.12	
26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218)		
Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	689.87	47.96
For >50 To 100, Deduct	-19.64	
For >100 To 250, Deduct	-36.89	
For >250 To 500, Deduct	-68.99	
For >500, Deduct	-101.08	
26 55 53 11-0221 CREE® BetaLED® Flood Lights (26 55 53 11)		
26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221)		
Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	971.87	135.40
For >50 To 100, Deduct	-31.07	
For >100 To 250, Deduct	-55.36	
For >250 To 500, Deduct	-97.19	
For >500, Deduct	-139.01	
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,061.11	142.92
For >50 To 100, Deduct	-33.67	
For >100 To 250, Deduct	-60.20	
For >250 To 500, Deduct	-106.11	
For >500, Deduct	-152.02	



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0225 Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) <small>(26 55 53 11-0221)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226 EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	850.64	127.87
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-27.66	
For >100 To 250, Deduct	-48.93	
For >250 To 500, Deduct	-85.06	
For >500, Deduct	-121.20	
26 55 53 11-0227 EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,053.74	135.40
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-33.11	
For >100 To 250, Deduct	-59.46	
For >250 To 500, Deduct	-105.37	
For >500, Deduct	-151.29	
26 55 53 11-0228 EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,256.84	142.92
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-38.57	
For >100 To 250, Deduct	-69.99	
For >250 To 500, Deduct	-125.68	
For >500, Deduct	-181.38	
26 55 53 11-0229 EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,535.43	150.45
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-45.91	
For >100 To 250, Deduct	-84.29	
For >250 To 500, Deduct	-153.54	
For >500, Deduct	-222.79	
26 55 53 11-0230 EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,738.53	157.97
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-51.36	
For >100 To 250, Deduct	-94.82	
For >250 To 500, Deduct	-173.85	
For >500, Deduct	-252.88	
26 55 53 11-0231 EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	1,941.64	165.48
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-56.82	
For >100 To 250, Deduct	-105.36	
For >250 To 500, Deduct	-194.16	
For >500, Deduct	-282.97	
26 55 53 11-0232 EA 140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	2,204.87	173.01
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-63.77	
For >100 To 250, Deduct	-118.89	
For >250 To 500, Deduct	-220.49	
For >500, Deduct	-322.08	
26 55 53 11-0233 EA 160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG)	2,407.98	180.53
For 480 Volt, Add	86.41	
For >50 To 100, Deduct	-69.23	
For >100 To 250, Deduct	-129.43	
For >250 To 500, Deduct	-240.80	
For >500, Deduct	-352.17	
26 55 53 11-0234 Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) <small>(26 55 53 11-0221)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0235 EA 120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO)	1,866.16	165.48
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Bird Spikes, Add	40.32	
For 5,000K Color Temperature, Add	37.72	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For 1,000mA Driver, Add	126.74	
For >50 To 100, Deduct	-54.93	
For >100 To 250, Deduct	-101.58	
For >250 To 500, Deduct	-186.62	
For >500, Deduct	-271.65	

26	26	Electrical
	26 50	Lighting
	26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0236 EA 240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	3,113.77	203.10
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For 5,000K Color Temperature, Add	37.72	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For Bird Spikes, Add	58.34	
For Multi-Level, Add	98.07	
For 1,000mA Driver, Add	126.74	
For 480 Volt, Add	135.79	
For >50 To 100, Deduct	-88.00	
For >100 To 250, Deduct	-165.84	
For >250 To 500, Deduct	-311.38	
For >500, Deduct	-456.91	
26 55 53 11-0237 Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) <small>(26 55 53 11-0221)</small>		
Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0238 EA 112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,138.97	165.48
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Front Facing Optics, Back Light Shield, Add	32.39	
For Rotated Optics, Back Light Shield, Add	32.39	
For Field Adjustable Output, Add	22.64	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-36.75	
For >100 To 250, Deduct	-65.22	
For >250 To 500, Deduct	-113.90	
For >500, Deduct	-162.57	
26 55 53 11-0239 EA 168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,210.27	165.48
Note: Type III, IV or V medium optics only.		
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Front Facing Optics, Back Light Shield, Add	32.39	
For Rotated Optics, Back Light Shield, Add	32.39	
For Field Adjustable Output, Add	22.64	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For Type II Medium Or Type V Short Optics, Add	397.19	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-38.53	
For >100 To 250, Deduct	-68.79	
For >250 To 500, Deduct	-121.03	
For >500, Deduct	-173.27	
26 55 53 11-0240 EA 223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL).....	1,546.89	203.10
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Front Facing Optics, Back Light Shield, Add	39.32	
For Rotated Optics, Back Light Shield, Add	39.32	
For Fuse, Add	45.26	
For 0 To 10 Volt Dimming, Add	45.26	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-48.83	
For >100 To 250, Deduct	-87.50	
For >250 To 500, Deduct	-154.69	
For >500, Deduct	-221.88	
26 55 53 11-0241 PlanLED Flood Lights <small>(26 55 53 11)</small>		
26 55 53 11-0242 Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) <small>(26 55 53 11-0241)</small>		
26 55 53 11-0243 EA 6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	603.09	135.40
For >50 To 100, Deduct	-21.85	
For >100 To 250, Deduct	-36.92	
For >250 To 500, Deduct	-60.31	
For >500, Deduct	-83.69	
26 55 53 11-0244 EA 9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	711.85	142.92
For >50 To 100, Deduct	-24.94	
For >100 To 250, Deduct	-42.74	
For >250 To 500, Deduct	-71.19	
For >500, Deduct	-99.63	
26 55 53 11-0245 EA 12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	816.23	154.21
For >50 To 100, Deduct	-28.12	
For >100 To 250, Deduct	-48.52	
For >250 To 500, Deduct	-81.62	
For >500, Deduct	-114.72	
26 55 53 11-0246 Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) <small>(26 55 53 11-0241)</small>		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0247 EA 21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200)	1,649.76	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-56.29	
For >100 To 250, Deduct	-97.53	
For >250 To 500, Deduct	-164.98	
For >500, Deduct	-232.42	
26 55 53 11-0248 EA 42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400)	2,476.22	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-76.95	
For >100 To 250, Deduct	-138.86	
For >250 To 500, Deduct	-247.62	
For >500, Deduct	-356.39	
26 55 53 11-0249 EA 84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800)	4,255.24	300.89
For 0 To 10 Volt Dimming, Add	72.99	
For >50 To 100, Deduct	-121.43	
For >100 To 250, Deduct	-227.81	
For >250 To 500, Deduct	-425.52	
For >500, Deduct	-623.24	
26 55 53 11-0250 Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) ^(26 55 53 11-0241)		
26 55 53 11-0251 EA 26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200)	1,425.51	195.58
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	-28.93	
For >50 To 100, Deduct	-45.42	
For >100 To 250, Deduct	-81.05	
For >250 To 500, Deduct	-142.55	
For >500, Deduct	-204.05	
26 55 53 11-0252 EA 39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300)	1,801.81	203.10
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	88.00	
For >50 To 100, Deduct	-55.20	
For >100 To 250, Deduct	-100.25	
For >250 To 500, Deduct	-180.18	
For >500, Deduct	-260.12	
26 55 53 11-0253 EA 52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400)	2,275.24	210.62
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	70.64	
For >50 To 100, Deduct	-67.41	
For >100 To 250, Deduct	-124.29	
For >250 To 500, Deduct	-227.52	
For >500, Deduct	-330.76	
26 55 53 12 Security Hazardous Location Flood Lights ^(26 55 53)		
Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.		
26 55 53 12-0001 Lithonia Hazardous Location Flood Lights ^(26 55 53 12)		
26 55 53 12-0002 HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights ^(26 55 53 12-0001)		
Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0003 High Pressure Sodium HFR Series Hazardous Location Flood Lights ^(26 55 53 12-0002)		
26 55 53 12-0004 EA 150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	910.76	149.37
26 55 53 12-0005 EA 250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	968.20	149.37
26 55 53 12-0006 EA 400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	912.61	149.37
26 55 53 12-0007 Metal Halide HFR Series Lithonia Hazardous Location Flood Lights ^(26 55 53 12-0002)		
26 55 53 12-0008 EA 250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	962.06	149.37
26 55 53 12-0009 EA 400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	934.84	149.37
26 55 53 12-0010 HFM (Medium Base) Series Hazardous Location Flood Lights ^(26 55 53 12-0001)		
Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0011 High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights ^(26 55 53 12-0010)		
26 55 53 12-0012 EA 100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	871.28	149.37
26 55 53 12-0013 EA 150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	905.55	149.37
26 55 53 12-0014 Metal Halide HFM Series Lithonia Hazardous Location Flood Lights ^(26 55 53 12-0010)		
26 55 53 12-0015 EA 175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	778.64	149.37

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 12-0016	HFA (Large) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.	
26 55 53 12-0017	High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0016)	
26 55 53 12-0018 EA	250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,220.18 186.72
26 55 53 12-0019 EA	400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,236.85 186.72
26 55 53 12-0020	Metal Halide HFA Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0016)	
26 55 53 12-0021 EA	250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,214.62 186.72
26 55 53 12-0022 EA	400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light	1,236.85 186.72
26 55 53 12-0023	HFL (Medium) Series Hazardous Location Flood Lights (26 55 53 12-0001) Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.	
26 55 53 12-0024	High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0023)	
26 55 53 12-0025 EA	400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	919.73 168.05
26 55 53 12-0026	Metal Halide HFL Series Lithonia Hazardous Location Flood Lights (26 55 53 12-0023)	
26 55 53 12-0027 EA	400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	984.58 168.05
26 55 53 12-0028	Accessories For Lithonia Hazardous Location Flood Lights (26 55 53 12-0001) See CSI section 26 55 53 11-0099 for accessories.	
26 55 53 13	Security High Performance Flood Lights (26 55 53) Note: For airport aprons and parking areas.	
26 55 53 13-0001	Lithonia High Performance Flood Lights (26 55 53 13)	
26 55 53 13-0002	170S Series Lithonia High Performance Flood Lights (26 55 53 13-0001) Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.	
26 55 53 13-0003	High Pressure Sodium 170S Series Lithonia High Performance Flood Lights (26 55 53 13-0002)	
26 55 53 13-0004 EA	250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,058.21 224.06
26 55 53 13-0005 EA	400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,210.14 224.06
26 55 53 13-0006 EA	750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,217.55 224.06
26 55 53 13-0007 EA	1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light	2,449.15 224.06
26 55 53 13-0008	Metal Halide 170S Series Lithonia High Performance Flood Lights (26 55 53 13-0002)	
26 55 53 13-0009 EA	320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,352.81 224.06
26 55 53 13-0010 EA	350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,250.07 224.06
26 55 53 13-0011 EA	400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,152.71 224.06
26 55 53 13-0012 EA	1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light	2,249.05 224.06
26 55 53 13-0013	Accessories For Lithonia High Performance Flood Lights (26 55 53 13-0002) See CSI section 26 55 53 11-0099 for accessories.	
26 55 61	Theatrical Lighting (26 55)	
26 55 61 00-0001	Stage Lighting (26 55 61)	
26 55 61 00-0002 EA	Ellipsoidal Spotlight, Two 6" x 9" Lenses	589.13 166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0003 EA	Ellipsoidal Spotlight, Two 6" x 12" Lenses	589.13 166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0004 EA	Ellipsoidal Spotlight, Two 6" x 16" Lenses	589.13 166.27
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0005 EA	14" Scoop Floodlight Altman #SC14	605.45 166.27
26 55 61 00-0006 EA	6" Diameter Fresnel Spotlight, Spherical Specular Alzak	435.77 166.27
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0007 EA	8" Diameter Fresnel Spotlight, Spherical Specular Alzak	671.78 166.27
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0008 EA	Follow Spotlight With Steel Chassis And Lightweight	1,884.21 166.27
Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		



Electrical	26	26
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight.....	2,255.69	166.27
Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowsner, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0010 EA PAR 64 Can Lighting With 20 Gauge Sheet Steel.....	377.75	166.27
Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.		
26 55 61 00-0011 EA 6' Long Borderlight Sections.....	1,133.65	166.27
Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.		
26 55 61 00-0012 EA 1,000 Watt, 25 To 125' Throw, Follow Spotlight (Times Square Lighting QF1000S).....	2,425.55	166.27
26 55 68 Athletic Field Lighting (26 55)		
26 55 68 00-0001 Sports Lighting System (26 55 68)		
Note: Musco.		
26 55 68 00-0002 Round Steel Tapered Poles (26 55 68 00-0001)		
Note: With Internal wiring harness.		
26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	3,657.50	717.01
26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	4,402.68	866.39
26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	4,946.64	941.08
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	5,387.10	978.42
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	6,665.71	1,015.77
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	7,682.25	1,239.83
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	8,247.85	1,314.51
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	9,369.40	1,493.77
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	10,630.75	1,680.49
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	11,716.16	1,834.74
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	12,799.92	2,050.59
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	13,983.38	2,302.41
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	15,765.01	2,770.09
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017 EA Two Light Bracket.....	469.99	74.69
26 55 68 00-0018 EA Three Light Bracket.....	594.21	104.56
26 55 68 00-0019 EA Four Light Bracket.....	847.03	126.97
26 55 68 00-0020 EA Five Light Bracket.....	968.77	149.37
26 55 68 00-0021 EA Six Light Bracket.....	1,171.61	171.79
26 55 68 00-0022 EA Seven Light Bracket.....	1,341.35	194.19
26 55 68 00-0023 EA Eight Light Bracket.....	1,531.84	224.06
26 55 68 00-0024 EA Nine Light Bracket.....	1,728.62	246.47
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug.....	1,547.09	
For 1,500 Watt Metal Halide Lamp, Add		12.17
26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001)		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted.....	864.98	88.93
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted.....	1,299.73	136.83
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted.....	1,489.68	171.03
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted.....	1,922.23	191.56
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted.....	2,157.98	205.24
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®).....	976.93	274.05
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®).....	1,834.59	274.05
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	2,177.65	274.05
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	10,220.90	822.15
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®).....	1,131.32	136.83
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®).....	1,404.97	273.66
26 56 Exterior Lighting (26 50)		
26 56 13 Lighting Poles and Standards (26 56)		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0004		Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56	13 00-0005		Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56	13 00-0006		Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56	13 00-0007	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,643.96	448.13
			For Galvanized Finish, Add	112.43	
			For >10 To 20, Deduct	-116.10	
			For >20 To 40, Deduct	-232.20	
			For >40, Deduct	-370.70	
26 56	13 00-0008	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,653.21	448.13
			For Galvanized Finish, Add	112.71	
			For >10 To 20, Deduct	-116.33	
			For >20 To 40, Deduct	-232.66	
			For >40, Deduct	-371.40	
26 56	13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	5,006.85	597.51
			For Galvanized Finish, Add	114.36	
			For >10 To 20, Deduct	-125.17	
			For >20 To 40, Deduct	-250.34	
			For >40, Deduct	-405.39	
26 56	13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	5,118.23	597.51
			For Galvanized Finish, Add	117.70	
			For >10 To 20, Deduct	-127.96	
			For >20 To 40, Deduct	-255.91	
			For >40, Deduct	-413.74	
26 56	13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	5,229.61	597.51
			For Galvanized Finish, Add	121.04	
			For >10 To 20, Deduct	-130.74	
			For >20 To 40, Deduct	-261.48	
			For >40, Deduct	-422.10	
26 56	13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	5,402.45	672.19
			For Galvanized Finish, Add	121.74	
			For >10 To 20, Deduct	-135.06	
			For >20 To 40, Deduct	-270.12	
			For >40, Deduct	-438.79	
26 56	13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	5,455.26	672.19
			For Galvanized Finish, Add	123.33	
			For >10 To 20, Deduct	-136.38	
			For >20 To 40, Deduct	-272.76	
			For >40, Deduct	-442.75	
26 56	13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	5,465.32	672.19
			For Galvanized Finish, Add	123.63	
			For >10 To 20, Deduct	-136.63	
			For >20 To 40, Deduct	-273.27	
			For >40, Deduct	-443.51	
26 56	13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	5,727.51	709.54
			For Galvanized Finish, Add	129.25	
			For >10 To 20, Deduct	-143.19	
			For >20 To 40, Deduct	-286.38	
			For >40, Deduct	-465.04	
26 56	13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	5,767.41	709.54
			For Galvanized Finish, Add	130.45	
			For >10 To 20, Deduct	-144.19	
			For >20 To 40, Deduct	-288.37	
			For >40, Deduct	-468.03	
26 56	13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	5,810.97	709.54
			For Galvanized Finish, Add	131.76	
			For >10 To 20, Deduct	-145.27	
			For >20 To 40, Deduct	-290.55	
			For >40, Deduct	-471.30	
26 56	13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	6,665.95	746.88
			For Galvanized Finish, Add	155.17	
			For >10 To 20, Deduct	-166.65	
			For >20 To 40, Deduct	-333.30	
			For >40, Deduct	-537.29	
26 56	13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	6,680.15	746.88
			For Galvanized Finish, Add	155.59	
			For >10 To 20, Deduct	-167.00	
			For >20 To 40, Deduct	-334.01	
			For >40, Deduct	-538.36	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	6,694.20	746.88
			<i>For Galvanized Finish, Add</i>	156.01	
			<i>For >10 To 20, Deduct</i>	-167.36	
			<i>For >20 To 40, Deduct</i>	-334.71	
			<i>For >40, Deduct</i>	-539.41	
26 56	13 00-0021		Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56	13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,804.21	522.82
			<i>For Galvanized Finish, Add</i>	142.76	
			<i>For >10 To 20, Deduct</i>	-145.11	
			<i>For >20 To 40, Deduct</i>	-290.21	
			<i>For >40, Deduct</i>	-461.46	
26 56	13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,901.07	541.49
			<i>For Galvanized Finish, Add</i>	144.54	
			<i>For >10 To 20, Deduct</i>	-147.53	
			<i>For >20 To 40, Deduct</i>	-295.05	
			<i>For >40, Deduct</i>	-469.65	
26 56	13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,983.26	560.16
			<i>For Galvanized Finish, Add</i>	145.89	
			<i>For >10 To 20, Deduct</i>	-149.58	
			<i>For >20 To 40, Deduct</i>	-299.16	
			<i>For >40, Deduct</i>	-476.75	
26 56	13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,717.12	672.19
			<i>For Galvanized Finish, Add</i>	131.18	
			<i>For >10 To 20, Deduct</i>	-142.93	
			<i>For >20 To 40, Deduct</i>	-285.86	
			<i>For >40, Deduct</i>	-462.39	
26 56	13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,778.09	690.86
			<i>For Galvanized Finish, Add</i>	131.89	
			<i>For >10 To 20, Deduct</i>	-144.45	
			<i>For >20 To 40, Deduct</i>	-288.90	
			<i>For >40, Deduct</i>	-467.90	
26 56	13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,825.01	709.54
			<i>For Galvanized Finish, Add</i>	132.18	
			<i>For >10 To 20, Deduct</i>	-145.63	
			<i>For >20 To 40, Deduct</i>	-291.25	
			<i>For >40, Deduct</i>	-472.35	
26 56	13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	6,158.20	746.88
			<i>For Galvanized Finish, Add</i>	139.93	
			<i>For >10 To 20, Deduct</i>	-153.96	
			<i>For >20 To 40, Deduct</i>	-307.91	
			<i>For >40, Deduct</i>	-499.21	
26 56	13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	6,209.90	765.56
			<i>For Galvanized Finish, Add</i>	140.36	
			<i>For >10 To 20, Deduct</i>	-155.25	
			<i>For >20 To 40, Deduct</i>	-310.50	
			<i>For >40, Deduct</i>	-504.02	
26 56	13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	6,256.34	784.23
			<i>For Galvanized Finish, Add</i>	140.64	
			<i>For >10 To 20, Deduct</i>	-156.41	
			<i>For >20 To 40, Deduct</i>	-312.82	
			<i>For >40, Deduct</i>	-508.44	
26 56	13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	6,538.46	784.23
			<i>For Galvanized Finish, Add</i>	149.10	
			<i>For >10 To 20, Deduct</i>	-163.46	
			<i>For >20 To 40, Deduct</i>	-326.92	
			<i>For >40, Deduct</i>	-529.60	
26 56	13 00-0032	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	6,637.56	802.90
			<i>For Galvanized Finish, Add</i>	150.95	
			<i>For >10 To 20, Deduct</i>	-165.94	
			<i>For >20 To 40, Deduct</i>	-331.88	
			<i>For >40, Deduct</i>	-537.96	
26 56	13 00-0033	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	6,733.47	821.57
			<i>For Galvanized Finish, Add</i>	152.71	
			<i>For >10 To 20, Deduct</i>	-168.34	
			<i>For >20 To 40, Deduct</i>	-336.67	
			<i>For >40, Deduct</i>	-546.09	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0034	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	7,422.02	821.57
			<i>For Galvanized Finish, Add</i>	173.37	
			<i>For >10 To 20, Deduct</i>	-185.55	
			<i>For >20 To 40, Deduct</i>	-371.10	
			<i>For >40, Deduct</i>	-597.73	
26 56 13 00-0035	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	7,468.62	840.25
			<i>For Galvanized Finish, Add</i>	173.64	
			<i>For >10 To 20, Deduct</i>	-186.72	
			<i>For >20 To 40, Deduct</i>	-373.43	
			<i>For >40, Deduct</i>	-602.16	
26 56 13 00-0036	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	7,515.53	858.92
			<i>For Galvanized Finish, Add</i>	173.93	
			<i>For >10 To 20, Deduct</i>	-187.89	
			<i>For >20 To 40, Deduct</i>	-375.78	
			<i>For >40, Deduct</i>	-606.61	
26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms					
<small>(26 56 13 00-0005)</small>					
26 56 13 00-0038	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	6,741.27	746.88
			<i>For Galvanized Finish, Add</i>	157.43	
			<i>For >10 To 20, Deduct</i>	-168.53	
			<i>For >20 To 40, Deduct</i>	-337.06	
			<i>For >40, Deduct</i>	-542.94	
26 56 13 00-0039	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	6,825.37	784.23
			<i>For Galvanized Finish, Add</i>	157.71	
			<i>For >10 To 20, Deduct</i>	-170.63	
			<i>For >20 To 40, Deduct</i>	-341.27	
			<i>For >40, Deduct</i>	-551.11	
26 56 13 00-0040	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	6,923.52	821.57
			<i>For Galvanized Finish, Add</i>	158.41	
			<i>For >10 To 20, Deduct</i>	-173.09	
			<i>For >20 To 40, Deduct</i>	-346.18	
			<i>For >40, Deduct</i>	-560.34	
26 56 13 00-0041	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	7,125.86	821.57
			<i>For Galvanized Finish, Add</i>	164.48	
			<i>For >10 To 20, Deduct</i>	-178.15	
			<i>For >20 To 40, Deduct</i>	-356.29	
			<i>For >40, Deduct</i>	-575.52	
26 56 13 00-0042	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	7,214.42	858.92
			<i>For Galvanized Finish, Add</i>	164.90	
			<i>For >10 To 20, Deduct</i>	-180.36	
			<i>For >20 To 40, Deduct</i>	-360.72	
			<i>For >40, Deduct</i>	-584.03	
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	7,298.52	896.27
			<i>For Galvanized Finish, Add</i>	165.18	
			<i>For >10 To 20, Deduct</i>	-182.46	
			<i>For >20 To 40, Deduct</i>	-364.93	
			<i>For >40, Deduct</i>	-592.20	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	7,585.74	858.92
			<i>For Galvanized Finish, Add</i>	176.04	
			<i>For >10 To 20, Deduct</i>	-189.64	
			<i>For >20 To 40, Deduct</i>	-379.29	
			<i>For >40, Deduct</i>	-611.88	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	7,669.85	896.27
			<i>For Galvanized Finish, Add</i>	176.32	
			<i>For >10 To 20, Deduct</i>	-191.75	
			<i>For >20 To 40, Deduct</i>	-383.49	
			<i>For >40, Deduct</i>	-620.05	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	7,753.95	933.60
			<i>For Galvanized Finish, Add</i>	176.60	
			<i>For >10 To 20, Deduct</i>	-193.85	
			<i>For >20 To 40, Deduct</i>	-387.70	
			<i>For >40, Deduct</i>	-628.23	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	8,178.08	896.27
			<i>For Galvanized Finish, Add</i>	191.57	
			<i>For >10 To 20, Deduct</i>	-204.45	
			<i>For >20 To 40, Deduct</i>	-408.90	
			<i>For >40, Deduct</i>	-658.17	



Electrical	26
Lighting	26 50
Exterior Lighting	26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	8,261.71	933.60
			<i>For Galvanized Finish, Add</i>	191.84	
			<i>For >10 To 20, Deduct</i>	-206.54	
			<i>For >20 To 40, Deduct</i>	-413.09	
			<i>For >40, Deduct</i>	-666.31	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	8,355.23	970.95
			<i>For Galvanized Finish, Add</i>	192.40	
			<i>For >10 To 20, Deduct</i>	-208.88	
			<i>For >20 To 40, Deduct</i>	-417.76	
			<i>For >40, Deduct</i>	-675.19	
26 56 13 00-0050			Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0005)</small>		
26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	7,501.97	821.57
			<i>For Galvanized Finish, Add</i>	175.76	
			<i>For >10 To 20, Deduct</i>	-187.55	
			<i>For >20 To 40, Deduct</i>	-375.10	
			<i>For >40, Deduct</i>	-603.73	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	7,628.04	877.59
			<i>For Galvanized Finish, Add</i>	176.19	
			<i>For >10 To 20, Deduct</i>	-190.70	
			<i>For >20 To 40, Deduct</i>	-381.40	
			<i>For >40, Deduct</i>	-615.98	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,749.32	933.60
			<i>For Galvanized Finish, Add</i>	176.46	
			<i>For >10 To 20, Deduct</i>	-193.73	
			<i>For >20 To 40, Deduct</i>	-387.47	
			<i>For >40, Deduct</i>	-627.88	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	7,944.15	896.27
			<i>For Galvanized Finish, Add</i>	184.55	
			<i>For >10 To 20, Deduct</i>	-198.60	
			<i>For >20 To 40, Deduct</i>	-397.21	
			<i>For >40, Deduct</i>	-640.62	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	8,066.08	952.27
			<i>For Galvanized Finish, Add</i>	184.85	
			<i>For >10 To 20, Deduct</i>	-201.65	
			<i>For >20 To 40, Deduct</i>	-403.30	
			<i>For >40, Deduct</i>	-652.57	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	8,133.75	1,008.29
			<i>For Galvanized Finish, Add</i>	183.51	
			<i>For >10 To 20, Deduct</i>	-203.34	
			<i>For >20 To 40, Deduct</i>	-406.69	
			<i>For >40, Deduct</i>	-660.45	
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	8,553.24	933.60
			<i>For Galvanized Finish, Add</i>	200.58	
			<i>For >10 To 20, Deduct</i>	-213.83	
			<i>For >20 To 40, Deduct</i>	-427.66	
			<i>For >40, Deduct</i>	-688.17	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	8,738.68	989.62
			<i>For Galvanized Finish, Add</i>	202.78	
			<i>For >10 To 20, Deduct</i>	-218.47	
			<i>For >20 To 40, Deduct</i>	-436.93	
			<i>For >40, Deduct</i>	-704.88	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	8,801.09	1,045.64
			<i>For Galvanized Finish, Add</i>	201.29	
			<i>For >10 To 20, Deduct</i>	-220.03	
			<i>For >20 To 40, Deduct</i>	-440.05	
			<i>For >40, Deduct</i>	-712.36	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	8,933.67	970.95
			<i>For Galvanized Finish, Add</i>	209.75	
			<i>For >10 To 20, Deduct</i>	-223.34	
			<i>For >20 To 40, Deduct</i>	-446.68	
			<i>For >40, Deduct</i>	-718.57	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	9,054.96	1,026.97
			<i>For Galvanized Finish, Add</i>	210.03	
			<i>For >10 To 20, Deduct</i>	-226.37	
			<i>For >20 To 40, Deduct</i>	-452.75	
			<i>For >40, Deduct</i>	-730.47	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	9,181.04	1,082.98
			<i>For Galvanized Finish, Add</i>	210.45	
			<i>For >10 To 20, Deduct</i>	-229.53	
			<i>For >20 To 40, Deduct</i>	-459.05	
			<i>For >40, Deduct</i>	-742.73	
26 56	13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56	13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56	13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,351.52	597.51
			<i>For Galvanized Finish, Add</i>	124.70	
			<i>For >10 To 20, Deduct</i>	-133.79	
			<i>For >20 To 40, Deduct</i>	-267.58	
			<i>For >40, Deduct</i>	-431.24	
26 56	13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	6,057.96	672.19
			<i>For Galvanized Finish, Add</i>	141.41	
			<i>For >10 To 20, Deduct</i>	-151.45	
			<i>For >20 To 40, Deduct</i>	-302.90	
			<i>For >40, Deduct</i>	-487.96	
26 56	13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	6,210.22	709.54
			<i>For Galvanized Finish, Add</i>	143.73	
			<i>For >10 To 20, Deduct</i>	-155.26	
			<i>For >20 To 40, Deduct</i>	-310.51	
			<i>For >40, Deduct</i>	-501.24	
26 56	13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	7,474.66	746.88
			<i>For Galvanized Finish, Add</i>	179.43	
			<i>For >10 To 20, Deduct</i>	-186.87	
			<i>For >20 To 40, Deduct</i>	-373.73	
			<i>For >40, Deduct</i>	-597.94	
26 56	13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>		
26 56	13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>		
26 56	13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	7,015.37	597.51
			<i>For Galvanized Finish, Add</i>	174.61	
			<i>For >10 To 20, Deduct</i>	-175.38	
			<i>For >20 To 40, Deduct</i>	-350.77	
			<i>For >40, Deduct</i>	-556.03	
26 56	13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	7,086.70	597.51
			<i>For Galvanized Finish, Add</i>	176.75	
			<i>For >10 To 20, Deduct</i>	-177.17	
			<i>For >20 To 40, Deduct</i>	-354.34	
			<i>For >40, Deduct</i>	-561.38	
26 56	13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	7,119.25	597.51
			<i>For Galvanized Finish, Add</i>	177.73	
			<i>For >10 To 20, Deduct</i>	-177.98	
			<i>For >20 To 40, Deduct</i>	-355.96	
			<i>For >40, Deduct</i>	-563.82	
26 56	13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	7,236.08	672.19
			<i>For Galvanized Finish, Add</i>	176.75	
			<i>For >10 To 20, Deduct</i>	-180.90	
			<i>For >20 To 40, Deduct</i>	-361.80	
			<i>For >40, Deduct</i>	-576.32	
26 56	13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	7,248.52	672.19
			<i>For Galvanized Finish, Add</i>	177.12	
			<i>For >10 To 20, Deduct</i>	-181.21	
			<i>For >20 To 40, Deduct</i>	-362.43	
			<i>For >40, Deduct</i>	-577.25	
26 56	13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	7,377.14	672.19
			<i>For Galvanized Finish, Add</i>	180.98	
			<i>For >10 To 20, Deduct</i>	-184.43	
			<i>For >20 To 40, Deduct</i>	-368.86	
			<i>For >40, Deduct</i>	-586.90	
26 56	13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	7,353.06	709.54
			<i>For Galvanized Finish, Add</i>	178.02	
			<i>For >10 To 20, Deduct</i>	-183.83	
			<i>For >20 To 40, Deduct</i>	-367.65	
			<i>For >40, Deduct</i>	-586.96	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0078 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	7,428.38	709.54
For Galvanized Finish, Add	180.28	
For >10 To 20, Deduct	-185.71	
For >20 To 40, Deduct	-371.42	
For >40, Deduct	-592.61	
26 56 13 00-0079 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	7,823.32	709.54
For Galvanized Finish, Add	192.13	
For >10 To 20, Deduct	-195.58	
For >20 To 40, Deduct	-391.17	
For >40, Deduct	-622.23	
26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0069)</small>		
26 56 13 00-0081 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	9,211.75	746.88
For Galvanized Finish, Add	231.54	
For >10 To 20, Deduct	-230.29	
For >20 To 40, Deduct	-460.59	
For >40, Deduct	-728.23	
26 56 13 00-0082 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	9,354.74	784.23
For Galvanized Finish, Add	233.59	
For >10 To 20, Deduct	-233.87	
For >20 To 40, Deduct	-467.74	
For >40, Deduct	-740.82	
26 56 13 00-0083 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	9,697.51	821.57
For Galvanized Finish, Add	241.63	
For >10 To 20, Deduct	-242.44	
For >20 To 40, Deduct	-484.88	
For >40, Deduct	-768.39	
26 56 13 00-0084 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	9,321.56	821.57
For Galvanized Finish, Add	230.35	
For >10 To 20, Deduct	-233.04	
For >20 To 40, Deduct	-466.08	
For >40, Deduct	-740.20	
26 56 13 00-0085 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	9,749.05	858.92
For Galvanized Finish, Add	240.94	
For >10 To 20, Deduct	-243.73	
For >20 To 40, Deduct	-487.45	
For >40, Deduct	-774.12	
26 56 13 00-0086 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	9,997.35	896.27
For Galvanized Finish, Add	246.14	
For >10 To 20, Deduct	-249.93	
For >20 To 40, Deduct	-499.87	
For >40, Deduct	-794.61	
26 56 13 00-0087 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	9,593.31	858.92
For Galvanized Finish, Add	236.26	
For >10 To 20, Deduct	-239.83	
For >20 To 40, Deduct	-479.67	
For >40, Deduct	-762.44	
26 56 13 00-0088 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	10,171.28	896.27
For Galvanized Finish, Add	251.36	
For >10 To 20, Deduct	-254.28	
For >20 To 40, Deduct	-508.56	
For >40, Deduct	-807.66	
26 56 13 00-0089 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	10,504.48	933.60
For Galvanized Finish, Add	259.12	
For >10 To 20, Deduct	-262.61	
For >20 To 40, Deduct	-525.22	
For >40, Deduct	-834.52	
26 56 13 00-0090 Aluminum Roadway Light Poles <small>(26 56 13 00-0002)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles <small>(26 56 13 00-0090)</small>		
26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0092)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0094 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,575.83	448.13
For >10 To 20, Deduct	-64.40	
For >20 To 40, Deduct	-128.79	
For >40, Deduct	-215.59	
26 56 13 00-0095 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,596.16	448.13
For >10 To 20, Deduct	-64.90	
For >20 To 40, Deduct	-129.81	
For >40, Deduct	-217.12	
26 56 13 00-0096 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,181.47	597.51
For >10 To 20, Deduct	-79.54	
For >20 To 40, Deduct	-159.07	
For >40, Deduct	-268.49	
26 56 13 00-0097 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,219.88	597.51
For >10 To 20, Deduct	-80.50	
For >20 To 40, Deduct	-160.99	
For >40, Deduct	-271.37	
26 56 13 00-0098 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,255.21	597.51
For >10 To 20, Deduct	-81.38	
For >20 To 40, Deduct	-162.76	
For >40, Deduct	-274.02	
26 56 13 00-0099 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,645.16	672.19
For >10 To 20, Deduct	-91.13	
For >20 To 40, Deduct	-182.26	
For >40, Deduct	-307.00	
26 56 13 00-0100 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,677.57	672.19
For >10 To 20, Deduct	-91.94	
For >20 To 40, Deduct	-183.88	
For >40, Deduct	-309.43	
26 56 13 00-0101 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,713.82	672.19
For >10 To 20, Deduct	-92.85	
For >20 To 40, Deduct	-185.69	
For >40, Deduct	-312.15	
26 56 13 00-0102 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,232.66	709.54
For >10 To 20, Deduct	-105.82	
For >20 To 40, Deduct	-211.63	
For >40, Deduct	-352.93	
26 56 13 00-0103 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,264.99	709.54
For >10 To 20, Deduct	-106.62	
For >20 To 40, Deduct	-213.25	
For >40, Deduct	-355.35	
26 56 13 00-0104 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,292.07	709.54
For >10 To 20, Deduct	-107.30	
For >20 To 40, Deduct	-214.60	
For >40, Deduct	-357.38	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0106 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	2,956.02	522.82
For >10 To 20, Deduct	-73.90	
For >20 To 40, Deduct	-147.80	
For >40, Deduct	-247.84	
26 56 13 00-0107 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,155.26	522.82
For >10 To 20, Deduct	-78.88	
For >20 To 40, Deduct	-157.76	
For >40, Deduct	-262.79	
26 56 13 00-0108 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,268.78	560.16
For >10 To 20, Deduct	-81.72	
For >20 To 40, Deduct	-163.44	
For >40, Deduct	-273.17	
26 56 13 00-0109 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,550.75	672.19
For >10 To 20, Deduct	-88.77	
For >20 To 40, Deduct	-177.54	
For >40, Deduct	-299.92	
26 56 13 00-0110 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,714.92	690.86
For >10 To 20, Deduct	-92.87	
For >20 To 40, Deduct	-185.75	
For >40, Deduct	-313.16	



Electrical	26
Lighting	26 50
Exterior Lighting	26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0111 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,947.68	709.54
For >10 To 20, Deduct	-98.69	
For >20 To 40, Deduct	-197.38	
For >40, Deduct	-331.55	
26 56 13 00-0112 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,084.27	746.88
For >10 To 20, Deduct	-102.11	
For >20 To 40, Deduct	-204.21	
For >40, Deduct	-343.66	
26 56 13 00-0113 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,239.27	765.56
For >10 To 20, Deduct	-105.98	
For >20 To 40, Deduct	-211.96	
For >40, Deduct	-356.22	
26 56 13 00-0114 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,426.44	784.23
For >10 To 20, Deduct	-110.66	
For >20 To 40, Deduct	-221.32	
For >40, Deduct	-371.19	
26 56 13 00-0115 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,602.68	784.23
For >10 To 20, Deduct	-115.07	
For >20 To 40, Deduct	-230.13	
For >40, Deduct	-384.41	
26 56 13 00-0116 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,006.83	802.90
For >10 To 20, Deduct	-125.17	
For >20 To 40, Deduct	-250.34	
For >40, Deduct	-415.66	
26 56 13 00-0117 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,475.40	821.57
For >10 To 20, Deduct	-136.89	
For >20 To 40, Deduct	-273.77	
For >40, Deduct	-451.73	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0119 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,426.12	597.51
For >10 To 20, Deduct	-85.65	
For >20 To 40, Deduct	-171.31	
For >40, Deduct	-286.83	
26 56 13 00-0120 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	3,661.96	634.86
For >10 To 20, Deduct	-91.55	
For >20 To 40, Deduct	-183.10	
For >40, Deduct	-306.39	
26 56 13 00-0121 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,176.01	746.88
For >10 To 20, Deduct	-104.40	
For >20 To 40, Deduct	-208.80	
For >40, Deduct	-350.55	
26 56 13 00-0122 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,357.28	784.23
For >10 To 20, Deduct	-108.93	
For >20 To 40, Deduct	-217.86	
For >40, Deduct	-366.01	
26 56 13 00-0123 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,563.38	821.57
For >10 To 20, Deduct	-114.08	
For >20 To 40, Deduct	-228.17	
For >40, Deduct	-383.33	
26 56 13 00-0124 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,729.80	858.92
For >10 To 20, Deduct	-118.25	
For >20 To 40, Deduct	-236.49	
For >40, Deduct	-397.68	
26 56 13 00-0125 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,920.63	858.92
For >10 To 20, Deduct	-123.02	
For >20 To 40, Deduct	-246.03	
For >40, Deduct	-411.99	
26 56 13 00-0126 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,333.96	896.27
For >10 To 20, Deduct	-133.35	
For >20 To 40, Deduct	-266.70	
For >40, Deduct	-444.86	
26 56 13 00-0127 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	9,652.37	933.60
For >10 To 20, Deduct	-241.31	
For >20 To 40, Deduct	-482.62	
For >40, Deduct	-770.61	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms <small>(26 56 13 00-0092)</small>		
26 56 13 00-0129 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	3,575.00	672.19
For >10 To 20, Deduct	-89.38	
For >20 To 40, Deduct	-178.75	
For >40, Deduct	-301.73	
26 56 13 00-0130 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	3,696.99	672.19
For >10 To 20, Deduct	-92.42	
For >20 To 40, Deduct	-184.85	
For >40, Deduct	-310.88	
26 56 13 00-0131 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	4,570.96	821.57
For >10 To 20, Deduct	-114.27	
For >20 To 40, Deduct	-228.55	
For >40, Deduct	-383.90	
26 56 13 00-0132 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	4,943.06	877.59
For >10 To 20, Deduct	-123.58	
For >20 To 40, Deduct	-247.15	
For >40, Deduct	-414.61	
26 56 13 00-0133 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,146.56	896.27
For >10 To 20, Deduct	-128.66	
For >20 To 40, Deduct	-257.33	
For >40, Deduct	-430.81	
26 56 13 00-0134 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,491.66	952.27
For >10 To 20, Deduct	-137.29	
For >20 To 40, Deduct	-274.58	
For >40, Deduct	-459.49	
26 56 13 00-0135 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,414.65	933.60
For >10 To 20, Deduct	-135.37	
For >20 To 40, Deduct	-270.73	
For >40, Deduct	-452.78	
26 56 13 00-0136 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,123.89	989.62
For >10 To 20, Deduct	-153.10	
For >20 To 40, Deduct	-306.19	
For >40, Deduct	-508.77	
26 56 13 00-0137 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,754.06	1,045.64
For >10 To 20, Deduct	-168.85	
For >20 To 40, Deduct	-337.70	
For >40, Deduct	-558.84	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0091)</small>		
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0138)</small>		
26 56 13 00-0140 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	3,745.93	597.51
For >10 To 20, Deduct	-93.65	
For >20 To 40, Deduct	-187.30	
For >40, Deduct	-310.82	
26 56 13 00-0141 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	3,773.09	597.51
For >10 To 20, Deduct	-94.33	
For >20 To 40, Deduct	-188.65	
For >40, Deduct	-312.86	
26 56 13 00-0142 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	3,842.51	597.51
For >10 To 20, Deduct	-96.06	
For >20 To 40, Deduct	-192.13	
For >40, Deduct	-318.06	
26 56 13 00-0143 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	3,946.67	597.51
For >10 To 20, Deduct	-98.67	
For >20 To 40, Deduct	-197.33	
For >40, Deduct	-325.88	
26 56 13 00-0144 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base	4,217.37	672.19
For >10 To 20, Deduct	-105.43	
For >20 To 40, Deduct	-210.87	
For >40, Deduct	-349.91	
26 56 13 00-0145 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,278.62	672.19
For >10 To 20, Deduct	-106.97	
For >20 To 40, Deduct	-213.93	
For >40, Deduct	-354.51	



		Electrical	26
		Lighting	26 50
		Exterior Lighting	26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0146 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,343.95	672.19
<i>For >10 To 20, Deduct</i>	-108.60	
<i>For >20 To 40, Deduct</i>	-217.20	
<i>For >40, Deduct</i>	-359.41	
26 56 13 00-0147 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,738.01	672.19
<i>For >10 To 20, Deduct</i>	-118.45	
<i>For >20 To 40, Deduct</i>	-236.90	
<i>For >40, Deduct</i>	-388.96	
26 56 13 00-0148 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,572.30	709.54
<i>For >10 To 20, Deduct</i>	-114.31	
<i>For >20 To 40, Deduct</i>	-228.62	
<i>For >40, Deduct</i>	-378.40	
26 56 13 00-0149 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,077.94	709.54
<i>For >10 To 20, Deduct</i>	-126.95	
<i>For >20 To 40, Deduct</i>	-253.90	
<i>For >40, Deduct</i>	-416.32	
26 56 13 00-0150 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,127.19	709.54
<i>For >10 To 20, Deduct</i>	-128.18	
<i>For >20 To 40, Deduct</i>	-256.36	
<i>For >40, Deduct</i>	-420.02	
26 56 13 00-0151 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,439.83	709.54
<i>For >10 To 20, Deduct</i>	-136.00	
<i>For >20 To 40, Deduct</i>	-271.99	
<i>For >40, Deduct</i>	-443.46	
26 56 13 00-0152 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,724.98	709.54
<i>For >10 To 20, Deduct</i>	-143.12	
<i>For >20 To 40, Deduct</i>	-286.25	
<i>For >40, Deduct</i>	-464.85	
 26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms <small>(26 56 13 00-0138)</small>		
26 56 13 00-0154 EA 25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,847.81	746.88
<i>For >10 To 20, Deduct</i>	-121.20	
<i>For >20 To 40, Deduct</i>	-242.39	
<i>For >40, Deduct</i>	-400.93	
26 56 13 00-0155 EA 25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	4,991.91	784.23
<i>For >10 To 20, Deduct</i>	-124.80	
<i>For >20 To 40, Deduct</i>	-249.60	
<i>For >40, Deduct</i>	-413.60	
26 56 13 00-0156 EA 25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,111.26	821.57
<i>For >10 To 20, Deduct</i>	-127.78	
<i>For >20 To 40, Deduct</i>	-255.56	
<i>For >40, Deduct</i>	-424.42	
26 56 13 00-0157 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,230.25	821.57
<i>For >10 To 20, Deduct</i>	-130.76	
<i>For >20 To 40, Deduct</i>	-261.51	
<i>For >40, Deduct</i>	-433.35	
26 56 13 00-0158 EA 30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,666.74	858.92
<i>For >10 To 20, Deduct</i>	-141.67	
<i>For >20 To 40, Deduct</i>	-283.34	
<i>For >40, Deduct</i>	-467.95	
26 56 13 00-0159 EA 30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,455.30	896.27
<i>For >10 To 20, Deduct</i>	-161.38	
<i>For >20 To 40, Deduct</i>	-322.77	
<i>For >40, Deduct</i>	-528.96	
26 56 13 00-0160 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,239.29	858.92
<i>For >10 To 20, Deduct</i>	-155.98	
<i>For >20 To 40, Deduct</i>	-311.96	
<i>For >40, Deduct</i>	-510.89	
26 56 13 00-0161 EA 35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,372.14	896.27
<i>For >10 To 20, Deduct</i>	-159.30	
<i>For >20 To 40, Deduct</i>	-318.61	
<i>For >40, Deduct</i>	-522.72	
26 56 13 00-0162 EA 35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,667.59	933.60
<i>For >10 To 20, Deduct</i>	-191.69	
<i>For >20 To 40, Deduct</i>	-383.38	
<i>For >40, Deduct</i>	-621.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0091)</small>		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0163)</small>		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,050.63	448.13
			<i>For >10 To 20, Deduct</i>	-76.27	
			<i>For >20 To 40, Deduct</i>	-152.53	
			<i>For >40, Deduct</i>	-251.20	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,127.38	448.13
			<i>For >10 To 20, Deduct</i>	-78.18	
			<i>For >20 To 40, Deduct</i>	-156.37	
			<i>For >40, Deduct</i>	-256.96	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,204.29	448.13
			<i>For >10 To 20, Deduct</i>	-80.11	
			<i>For >20 To 40, Deduct</i>	-160.21	
			<i>For >40, Deduct</i>	-262.73	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	3,663.19	597.51
			<i>For >10 To 20, Deduct</i>	-91.58	
			<i>For >20 To 40, Deduct</i>	-183.16	
			<i>For >40, Deduct</i>	-304.61	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	3,721.68	597.51
			<i>For >10 To 20, Deduct</i>	-93.04	
			<i>For >20 To 40, Deduct</i>	-186.08	
			<i>For >40, Deduct</i>	-309.00	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	3,785.59	597.51
			<i>For >10 To 20, Deduct</i>	-94.64	
			<i>For >20 To 40, Deduct</i>	-189.28	
			<i>For >40, Deduct</i>	-313.79	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	4,133.21	672.19
			<i>For >10 To 20, Deduct</i>	-103.33	
			<i>For >20 To 40, Deduct</i>	-206.66	
			<i>For >40, Deduct</i>	-343.60	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,212.62	672.19
			<i>For >10 To 20, Deduct</i>	-105.32	
			<i>For >20 To 40, Deduct</i>	-210.63	
			<i>For >40, Deduct</i>	-349.56	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,224.54	672.19
			<i>For >10 To 20, Deduct</i>	-105.61	
			<i>For >20 To 40, Deduct</i>	-211.23	
			<i>For >40, Deduct</i>	-350.45	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	4,490.48	709.54
			<i>For >10 To 20, Deduct</i>	-112.26	
			<i>For >20 To 40, Deduct</i>	-224.52	
			<i>For >40, Deduct</i>	-372.26	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,525.31	709.54
			<i>For >10 To 20, Deduct</i>	-113.13	
			<i>For >20 To 40, Deduct</i>	-226.27	
			<i>For >40, Deduct</i>	-374.88	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,606.97	709.54
			<i>For >10 To 20, Deduct</i>	-115.17	
			<i>For >20 To 40, Deduct</i>	-230.35	
			<i>For >40, Deduct</i>	-381.00	
26 56 13 00-0177			Area Light Poles <small>(26 56 13 00-0001)</small> Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0179)</small>		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,182.88	261.41
			<i>For Galvanized Finish, Add</i>	19.80	
			<i>For >10 To 20, Deduct</i>	-39.47	
			<i>For >20 To 40, Deduct</i>	-72.35	
			<i>For >40, Deduct</i>	-151.29	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,294.14	298.76
			<i>For Galvanized Finish, Add</i>	20.90	
			<i>For >10 To 20, Deduct</i>	-42.80	
			<i>For >20 To 40, Deduct</i>	-78.64	
			<i>For >40, Deduct</i>	-164.25	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0183 EA 14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,447.44 23.26 -47.81 -87.88 -183.51	336.10
26 56 13 00-0184 EA 16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,604.41 25.73 -52.97 -97.37 -203.32	373.45
26 56 13 00-0185 EA 18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,715.67 26.82 -56.30 -103.67 -216.27	410.78
26 56 13 00-0186 EA 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,817.79 27.65 -59.27 -109.32 -227.86	448.13
26 56 13 00-0187 EA 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.42 21.23 -41.37 -75.67 -158.42	261.41
26 56 13 00-0188 EA 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,343.51 22.38 -44.78 -82.10 -171.65	298.76
26 56 13 00-0189 EA 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,546.17 26.22 -51.76 -94.79 -198.32	336.10
26 56 13 00-0190 EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,668.40 27.65 -55.53 -101.85 -212.92	373.45
26 56 13 00-0191 EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,785.15 28.91 -59.08 -108.53 -226.69	410.78
26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,883.62 29.62 -61.90 -113.93 -237.73	448.13
26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,250.01 31.65 -72.08 -133.60 -277.75	597.51
26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.42 21.23 -41.37 -75.67 -158.42	261.41
26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,348.99 22.54 -45.00 -82.48 -172.47	298.76
26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,575.43 27.10 -52.93 -96.84 -202.71	336.10
26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,673.89 27.81 -55.75 -102.23 -213.74	373.45
26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,785.15 28.91 -59.08 -108.53 -226.69	410.78
26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,883.62 29.62 -61.90 -113.93 -237.73	448.13

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,301.20	597.51
			For Galvanized Finish, Add	33.19	
			For >10 To 20, Deduct	-74.12	
			For >20 To 40, Deduct	-137.18	
			For >40, Deduct	-285.43	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,545.66	672.19
			For Galvanized Finish, Add	36.04	
			For >10 To 20, Deduct	-81.66	
			For >20 To 40, Deduct	-151.31	
			For >40, Deduct	-314.63	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,000.64	448.13
			For Galvanized Finish, Add	33.13	
			For >10 To 20, Deduct	-66.58	
			For >20 To 40, Deduct	-122.12	
			For >40, Deduct	-255.28	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,324.97	597.51
			For Galvanized Finish, Add	33.90	
			For >10 To 20, Deduct	-75.07	
			For >20 To 40, Deduct	-138.85	
			For >40, Deduct	-289.00	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,591.37	672.19
			For Galvanized Finish, Add	37.41	
			For >10 To 20, Deduct	-83.49	
			For >20 To 40, Deduct	-154.51	
			For >40, Deduct	-321.49	
26 56 13 00-0205			Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,413.86	448.13
			For Galvanized Finish, Add	45.53	
			For >10 To 20, Deduct	-83.11	
			For >20 To 40, Deduct	-151.04	
			For >40, Deduct	-317.27	
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,470.54	448.13
			For Galvanized Finish, Add	47.23	
			For >10 To 20, Deduct	-85.38	
			For >20 To 40, Deduct	-155.01	
			For >40, Deduct	-325.77	
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,893.61	597.51
			For Galvanized Finish, Add	50.96	
			For >10 To 20, Deduct	-97.82	
			For >20 To 40, Deduct	-178.65	
			For >40, Deduct	-374.29	
26 56 13 00-0210	EA		25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,010.63	597.51
			For Galvanized Finish, Add	54.47	
			For >10 To 20, Deduct	-102.50	
			For >20 To 40, Deduct	-186.84	
			For >40, Deduct	-391.84	
26 56 13 00-0211	EA		30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,225.83	672.19
			For Galvanized Finish, Add	56.44	
			For >10 To 20, Deduct	-108.87	
			For >20 To 40, Deduct	-198.92	
			For >40, Deduct	-416.66	
26 56 13 00-0212	EA		30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,421.48	672.19
			For Galvanized Finish, Add	62.31	
			For >10 To 20, Deduct	-116.69	
			For >20 To 40, Deduct	-212.62	
			For >40, Deduct	-446.00	
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,536.40	709.54
			For Galvanized Finish, Add	63.52	
			For >10 To 20, Deduct	-120.17	
			For >20 To 40, Deduct	-219.17	
			For >40, Deduct	-459.51	
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,657.08	709.54
			For Galvanized Finish, Add	67.14	
			For >10 To 20, Deduct	-125.00	
			For >20 To 40, Deduct	-227.61	
			For >40, Deduct	-477.61	
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,945.97	709.54
			For Galvanized Finish, Add	75.81	
			For >10 To 20, Deduct	-136.55	
			For >20 To 40, Deduct	-247.84	
			For >40, Deduct	-520.94	
26 56 13 00-0216	EA		39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,998.71	746.88
			For Galvanized Finish, Add	75.15	
			For >10 To 20, Deduct	-137.54	
			For >20 To 40, Deduct	-250.03	
			For >40, Deduct	-525.12	
26 56 13 00-0217	EA		39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,049.90	746.88
			For Galvanized Finish, Add	76.68	
			For >10 To 20, Deduct	-139.59	
			For >20 To 40, Deduct	-253.62	
			For >40, Deduct	-532.80	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,483.55 106.25 -190.21 -345.01 -725.44	970.95
26 56	13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,771.33 105.92 -197.24 -359.18 -753.67	1,120.33
26 56	13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,804.17 78.27 -134.24 -242.39 -510.88	597.51
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,315.57 89.14 -152.46 -275.20 -580.12	672.19
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,984.22 104.71 -176.96 -319.02 -672.94	746.88
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,054.02 123.36 -213.03 -384.94 -811.01	970.95
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,058.54 144.54 -248.73 -449.28 -946.75	1,120.33
26 56	13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,802.70 166.86 -278.50 -501.38 -1,058.37	1,120.33
26 56	13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	10,289.35 241.46 -377.96 -675.44 -1,431.37	1,120.33
26 56	13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	11,496.11 277.66 -426.23 -759.91 -1,612.38	1,120.33
26 56	13 00-0228		Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56	13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,168.25 19.36 -38.89 -71.32 -149.10	261.41
26 56	13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,242.94 19.36 -40.75 -75.06 -156.57	298.76
26 56	13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,348.71 20.30 -43.87 -80.97 -168.70	336.10
26 56	13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,429.94 21.61 -46.55 -85.91 -179.01	354.77
26 56	13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,467.28 21.61 -47.49 -87.77 -182.75	373.45
26 56	13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,562.08 22.22 -50.16 -92.91 -193.23	410.78

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0236 EA 20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,653.24	448.13
For Galvanized Finish, Add	22.71	
For >10 To 20, Deduct	-52.69	
For >20 To 40, Deduct	-97.80	
For >40, Deduct	-203.17	
26 56 13 00-0237 EA 25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,061.68	597.51
For Galvanized Finish, Add	26.00	
For >10 To 20, Deduct	-64.54	
For >20 To 40, Deduct	-120.42	
For >40, Deduct	-249.50	
26 56 13 00-0238 EA 20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,900.07	448.13
For Galvanized Finish, Add	30.11	
For >10 To 20, Deduct	-62.56	
For >20 To 40, Deduct	-115.08	
For >40, Deduct	-240.20	
26 56 13 00-0239 EA 25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,401.77	597.51
For Galvanized Finish, Add	36.20	
For >10 To 20, Deduct	-78.15	
For >20 To 40, Deduct	-144.22	
For >40, Deduct	-300.52	
26 56 13 00-0240 EA 30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,750.45	672.19
For Galvanized Finish, Add	42.18	
For >10 To 20, Deduct	-89.85	
For >20 To 40, Deduct	-165.64	
For >40, Deduct	-345.35	
26 56 13 00-0241 EA 20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,832.42	448.13
For Galvanized Finish, Add	28.08	
For >10 To 20, Deduct	-59.85	
For >20 To 40, Deduct	-110.34	
For >40, Deduct	-230.05	
26 56 13 00-0242 EA 25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,270.12	597.51
For Galvanized Finish, Add	32.25	
For >10 To 20, Deduct	-72.88	
For >20 To 40, Deduct	-135.01	
For >40, Deduct	-280.77	
26 56 13 00-0243 EA 30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,637.08	672.19
For Galvanized Finish, Add	38.78	
For >10 To 20, Deduct	-85.32	
For >20 To 40, Deduct	-157.71	
For >40, Deduct	-328.34	
26 56 13 00-0244 EA 20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,064.63	448.13
For Galvanized Finish, Add	35.05	
For >10 To 20, Deduct	-69.14	
For >20 To 40, Deduct	-126.60	
For >40, Deduct	-264.88	
26 56 13 00-0245 EA 25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,566.33	597.51
For Galvanized Finish, Add	41.14	
For >10 To 20, Deduct	-84.73	
For >20 To 40, Deduct	-155.74	
For >40, Deduct	-325.20	
26 56 13 00-0246 EA 30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,905.86	672.19
For Galvanized Finish, Add	46.84	
For >10 To 20, Deduct	-96.07	
For >20 To 40, Deduct	-176.52	
For >40, Deduct	-368.66	
26 56 13 00-0247 EA 35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,207.28	709.54
For Galvanized Finish, Add	53.65	
For >10 To 20, Deduct	-107.00	
For >20 To 40, Deduct	-196.13	
For >40, Deduct	-410.14	
26 56 13 00-0248 EA 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,266.06	672.19
For Galvanized Finish, Add	57.65	
For >10 To 20, Deduct	-110.48	
For >20 To 40, Deduct	-201.74	
For >40, Deduct	-422.69	
26 56 13 00-0249 EA 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,569.31	709.54
For Galvanized Finish, Add	64.51	
For >10 To 20, Deduct	-121.49	
For >20 To 40, Deduct	-221.47	
For >40, Deduct	-464.44	
26 56 13 00-0250 EA 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,773.81	746.88
For Galvanized Finish, Add	68.40	
For >10 To 20, Deduct	-128.55	
For >20 To 40, Deduct	-234.29	
For >40, Deduct	-491.38	
26 56 13 00-0251 Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252 Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253 EA 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base.....	3,928.17	448.13
For Galvanized Finish, Add	90.96	
For >10 To 20, Deduct	-143.68	
For >20 To 40, Deduct	-257.05	
For >40, Deduct	-544.41	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0254	EA	25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,433.06 97.14 -159.40 -286.41 -605.21	597.51
26 56	13 00-0255	EA	30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,122.70 143.35 -224.74 -401.70 -851.19	672.19
26 56	13 00-0256	EA	20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,002.07 93.17 -146.64 -262.22 -555.50	448.13
26 56	13 00-0257	EA	25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,862.85 110.04 -176.59 -316.50 -669.68	597.51
26 56	13 00-0258	EA	30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,762.53 162.54 -250.34 -446.49 -947.16	672.19
26 56	13 00-0259	EA	35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,729.88 189.32 -287.91 -512.71 -1,088.53	709.54
26 56	13 00-0260	EA	39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,043.38 226.49 -339.33 -603.16 -1,281.82	746.88
26 56	13 00-0261	EA	20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,811.49 87.46 -139.02 -248.88 -526.91	448.13
26 56	13 00-0262	EA	25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,246.36 91.54 -151.93 -273.35 -577.20	597.51
26 56	13 00-0263	EA	30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,794.03 133.49 -211.60 -378.69 -801.89	672.19
26 56	13 00-0264	EA	20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,945.68 91.48 -144.38 -258.27 -547.04	448.13
26 56	13 00-0265	EA	25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,687.82 104.78 -169.59 -304.25 -643.42	597.51
26 56	13 00-0266	EA	30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,519.43 155.25 -240.61 -429.47 -910.70	672.19
26 56	13 00-0267	EA	20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,151.82 97.67 -152.63 -272.70 -577.96	448.13
26 56	13 00-0268	EA	25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,059.28 115.93 -184.45 -330.25 -699.14	597.51
26 56	13 00-0269	EA	30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,957.01 168.38 -258.11 -460.10 -976.33	672.19
26 56	13 00-0270	EA	35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,967.14 196.44 -297.40 -529.32 -1,124.12	709.54

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0271 EA 39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,169.79 230.28 -344.39 -612.01 -1,300.78	746.88
26 56 13 00-0272 Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273 Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274 EA 20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,030.04 64.01 -107.76 -194.18 -409.69	448.13
26 56 13 00-0275 EA 25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,705.43 75.31 -130.29 -235.48 -496.06	597.51
26 56 13 00-0276 EA 30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,127.25 83.49 -144.92 -262.02 -551.87	672.19
26 56 13 00-0277 EA 35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,562.14 94.29 -161.20 -290.97 -613.37	709.54
26 56 13 00-0278 EA 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,808.70 99.45 -169.94 -306.73 -646.62	746.88
26 56 13 00-0279 EA 20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,851.00 88.64 -140.60 -251.64 -532.84	448.13
26 56 13 00-0280 EA 25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,349.03 94.62 -156.04 -280.53 -592.60	597.51
26 56 13 00-0281 EA 30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,653.83 99.28 -165.99 -298.88 -630.86	672.19
26 56 13 00-0282 EA 30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,136.53 113.76 -185.30 -332.67 -703.26	672.19
26 56 13 00-0283 EA 35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,558.63 124.19 -201.06 -360.72 -762.84	709.54
26 56 13 00-0284 EA 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,156.53 142.12 -224.97 -402.58 -852.53	709.54
26 56 13 00-0285 EA 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,660.74 125.01 -204.02 -366.38 -774.42	746.88
26 56 13 00-0286 EA 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,132.62 169.17 -262.90 -469.41 -995.20	746.88
26 56 13 00-0287 EA 45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,728.70 143.60 -240.02 -432.17 -912.21	970.95
26 56 13 00-0288 EA 45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,732.51 173.72 -280.17 -502.44 -1,062.78	970.95



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0289 EA 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	8,082.45 175.25 -289.69 -520.96 -1,100.34	1,120.33
26 56 13 00-0290 Factory Accessories For Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0291 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	64.83	
26 56 13 00-0292 EA Extra Handhole For Steel Area Light Poles	96.41	
26 56 13 00-0293 EA Vibration Dampener For Steel Area Light Poles	98.07	
26 56 13 00-0294 Aluminum Area Light Poles <small>(26 56 13 00-0177)</small> Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295 Round Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0296 Round Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0295)</small>		
26 56 13 00-0297 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	820.50 37.24 74.47 -26.10 -48.47 -100.67	224.06
26 56 13 00-0298 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	914.29 39.15 78.29 -28.73 -53.54 -111.00	261.41
26 56 13 00-0299 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,012.85 41.53 83.07 -31.55 -58.95 -122.05	298.76
26 56 13 00-0300 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,112.35 44.02 88.03 -34.41 -64.42 -133.24	336.10
26 56 13 00-0301 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,165.93 45.64 91.28 -35.99 -67.42 -139.41	354.77
26 56 13 00-0302 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,218.55 47.17 94.33 -37.54 -70.36 -145.44	373.45
26 56 13 00-0303 EA 16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,275.84 52.90 105.79 -39.83 -74.37 -154.03	373.45
26 56 13 00-0304 EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,386.81 56.52 113.05 -43.15 -80.65 -166.94	410.78
26 56 13 00-0305 EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,492.07 59.58 119.16 -46.24 -86.52 -179.00	448.13
26 56 13 00-0306 EA 15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,376.95 66.74 133.48 -44.43 -82.20 -171.07	354.77
26 56 13 00-0307 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,703.08 80.68 161.36 -54.68 -101.29 -210.65	448.13

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0308	EA	20'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,810.01 91.37 182.75 -58.96 -108.78 -226.69	448.13
26 56 13 00-0309	EA	25'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,209.01 101.40 202.80 -70.44 -130.73 -271.60	597.51
26 56 13 00-0310	EA	30'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,548.39 120.40 240.80 -81.77 -151.50 -315.04	672.19
26 56 13 00-0311	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,557.95 66.17 132.34 -48.87 -91.13 -188.88	448.13
26 56 13 00-0312	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,801.42 90.52 181.03 -58.61 -108.17 -225.40	448.13
26 56 13 00-0313	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,193.73 99.87 199.74 -69.82 -129.66 -269.31	597.51
26 56 13 00-0314	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,332.18 113.72 227.43 -75.36 -139.35 -290.08	597.51
26 56 13 00-0315	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,704.98 136.06 272.12 -88.03 -162.46 -338.53	672.19
26 56 13 00-0316			Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)		
26 56 13 00-0317	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	917.89 70.46 -29.99 -55.29 -115.28	224.06
26 56 13 00-0318	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,030.77 76.19 -33.39 -61.70 -128.47	261.41
26 56 13 00-0319	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,139.84 81.35 -36.63 -67.84 -141.10	298.76
26 56 13 00-0320	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.75 83.78 -39.15 -72.71 -151.00	336.10
26 56 13 00-0321	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,333.13 87.94 -42.12 -78.38 -162.63	373.45
26 56 13 00-0322	EA	10'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,050.82 79.20 -34.19 -63.10 -131.48	261.41
26 56 13 00-0323	EA	12'	High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,157.98 84.07 -37.36 -69.11 -143.82	298.76



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0324 EA 14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,267.99 89.37 -40.64 -75.32 -156.59	336.10
26 56 13 00-0325 EA 16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,377.05 94.53 -43.88 -81.46 -169.21	373.45
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,490.88 100.40 -47.31 -87.93 -182.55	410.78
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,599.00 105.41 -50.52 -94.00 -195.04	448.13
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,195.21 89.66 -38.85 -71.71 -149.41	298.76
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,311.91 95.96 -42.39 -78.39 -163.18	336.10
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,427.65 102.12 -45.90 -85.00 -176.80	373.45
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,545.31 108.56 -49.49 -91.74 -190.72	410.78
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,481.12 110.14 -48.04 -88.74 -184.82	373.45
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,724.08 124.17 -55.52 -102.76 -213.80	448.13
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,230.54 94.95 -40.26 -74.19 -154.71	298.76
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.74 102.83 -44.23 -81.60 -170.05	336.10
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,475.39 109.28 -47.81 -88.34 -183.96	373.45
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,598.78 116.58 -51.63 -95.48 -198.74	410.78
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,719.31 123.46 -55.33 -102.43 -213.08	448.13
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,545.09 119.73 -50.60 -93.22 -194.42	373.45
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,677.07 128.33 -54.76 -100.96 -210.48	410.78

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0341	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,748.91 127.90 -56.51 -104.50 -217.52	448.13
26 56	13 00-0342		Round Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0295)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56	13 00-0343	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	724.82 35.14 70.27 -23.39 -43.27 -90.05	186.72
26 56	13 00-0344	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	780.29 36.95 73.90 -25.05 -46.40 -96.50	205.39
26 56	13 00-0345	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	860.60 41.25 82.49 -27.70 -51.28 -106.68	224.06
26 56	13 00-0346	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	882.56 43.44 86.89 -28.58 -52.82 -109.98	224.06
26 56	13 00-0347	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	910.25 46.21 92.42 -29.69 -54.75 -114.13	224.06
26 56	13 00-0348	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,031.62 54.62 109.23 -33.98 -62.50 -130.47	242.74
26 56	13 00-0349	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,104.29 58.15 116.29 -36.33 -66.84 -139.50	261.41
26 56	13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,252.29 72.95 145.89 -42.25 -77.20 -161.70	261.41
26 56	13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,516.98 91.95 183.89 -51.72 -94.24 -197.67	298.76
26 56	13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,719.61 104.74 209.48 -58.70 -106.93 -224.33	336.10
26 56	13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,894.33 122.21 244.43 -65.69 -119.16 -250.54	336.10
26 56	13 00-0354		Round Tapered, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56	13 00-0355		Round Tapered, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0354)</small>		
26 56	13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	718.34 27.02 54.04 -22.01 -41.32 -85.34	224.06



	Electrical	26
	Lighting	26 50
	Exterior Lighting	26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0357	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	814.99 29.22 58.43 -24.76 -46.59 -96.11	261.41
26 56	13 00-0358	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	911.64 31.41 62.83 -27.50 -51.86 -106.87	298.76
26 56	13 00-0359	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,016.87 34.47 68.94 -30.59 -57.74 -118.92	336.10
26 56	13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,121.16 37.43 74.86 -33.64 -63.54 -130.83	373.45
26 56	13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	839.81 31.70 63.40 -25.75 -48.33 -99.83	261.41
26 56	13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	950.79 35.33 70.66 -29.07 -54.61 -112.74	298.76
26 56	13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,058.88 38.67 77.34 -32.27 -60.68 -125.22	336.10
26 56	13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,268.42 44.69 89.37 -38.41 -72.36 -149.18	410.78
26 56	13 00-0365	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,366.99 47.07 94.14 -41.24 -77.76 -160.24	448.13
26 56	13 00-0366	EA	12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	986.11 38.86 77.72 -30.48 -57.08 -118.04	298.76
26 56	13 00-0367	EA	14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,099.94 42.78 85.55 -33.91 -63.55 -131.38	336.10
26 56	13 00-0368	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,220.46 47.36 94.72 -37.62 -70.49 -145.73	373.45
26 56	13 00-0369	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,323.79 50.22 100.44 -40.63 -76.23 -157.49	410.78
26 56	13 00-0370	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,440.51 54.42 108.85 -44.18 -82.91 -171.26	448.13

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,314.03 56.72 113.43 -41.36 -77.04 -159.76	373.45
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,443.14 62.16 124.31 -45.40 -84.59 -175.39	410.78
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,533.12 63.69 127.37 -47.88 -89.39 -185.15	448.13
26 56	13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,767.47 72.18 144.37 -55.01 -102.81 -212.84	522.82
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,007.54 81.25 162.51 -62.38 -116.63 -241.38	597.51
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,536.72 71.52 143.03 -49.15 -91.14 -189.43	410.78
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,646.74 75.05 150.09 -52.43 -97.35 -202.20	448.13
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,857.22 81.16 162.32 -58.60 -109.09 -226.30	522.82
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,076.29 88.13 176.26 -65.13 -121.44 -251.69	597.51
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,228.32 95.86 191.72 -70.09 -130.59 -270.76	634.86
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,382.26 103.79 207.57 -75.12 -139.87 -290.12	672.19
26 56	13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,946.02 90.04 180.08 -62.16 -115.31 -239.62	522.82
26 56	13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,135.49 94.05 188.10 -67.49 -125.58 -260.57	597.51
26 56	13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,292.29 102.26 204.52 -72.65 -135.07 -280.36	634.86



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0385 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,481.56	672.19
<i>For Bronze Or Satin Anodized Finish, Add</i>	113.72	
<i>For Black Anodized Finish, Add</i>	227.43	
<i>For >10 To 20, Deduct</i>	-79.10	
<i>For >20 To 40, Deduct</i>	-146.82	
<i>For >40, Deduct</i>	-305.01	
26 56 13 00-0386 EA 33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,561.87	690.86
<i>For Bronze Or Satin Anodized Finish, Add</i>	118.01	
<i>For Black Anodized Finish, Add</i>	236.03	
<i>For >10 To 20, Deduct</i>	-81.75	
<i>For >20 To 40, Deduct</i>	-151.70	
<i>For >40, Deduct</i>	-315.19	
26 56 13 00-0387 EA 35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,714.75	709.54
<i>For Bronze Or Satin Anodized Finish, Add</i>	129.57	
<i>For Black Anodized Finish, Add</i>	259.13	
<i>For >10 To 20, Deduct</i>	-87.30	
<i>For >20 To 40, Deduct</i>	-161.65	
<i>For >40, Deduct</i>	-336.26	
26 56 13 00-0388 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,025.26	298.76
<i>For Bronze Or Satin Anodized Finish, Add</i>	42.78	
<i>For Black Anodized Finish, Add</i>	85.55	
<i>For >10 To 20, Deduct</i>	-32.05	
<i>For >20 To 40, Deduct</i>	-59.82	
<i>For >40, Deduct</i>	-123.91	
26 56 13 00-0389 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,145.77	336.10
<i>For Bronze Or Satin Anodized Finish, Add</i>	47.36	
<i>For Black Anodized Finish, Add</i>	94.72	
<i>For >10 To 20, Deduct</i>	-35.75	
<i>For >20 To 40, Deduct</i>	-66.76	
<i>For >40, Deduct</i>	-138.26	
26 56 13 00-0390 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,270.11	373.45
<i>For Bronze Or Satin Anodized Finish, Add</i>	52.32	
<i>For Black Anodized Finish, Add</i>	104.65	
<i>For >10 To 20, Deduct</i>	-39.60	
<i>For >20 To 40, Deduct</i>	-73.97	
<i>For >40, Deduct</i>	-153.17	
26 56 13 00-0391 EA 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,383.95	410.78
<i>For Bronze Or Satin Anodized Finish, Add</i>	56.24	
<i>For Black Anodized Finish, Add</i>	112.48	
<i>For >10 To 20, Deduct</i>	-43.03	
<i>For >20 To 40, Deduct</i>	-80.45	
<i>For >40, Deduct</i>	-166.51	
26 56 13 00-0392 EA 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,496.84	448.13
<i>For Bronze Or Satin Anodized Finish, Add</i>	60.06	
<i>For Black Anodized Finish, Add</i>	120.11	
<i>For >10 To 20, Deduct</i>	-46.43	
<i>For >20 To 40, Deduct</i>	-86.85	
<i>For >40, Deduct</i>	-179.71	
26 56 13 00-0393 EA 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,374.18	373.45
<i>For Bronze Or Satin Anodized Finish, Add</i>	62.73	
<i>For Black Anodized Finish, Add</i>	125.46	
<i>For >10 To 20, Deduct</i>	-43.76	
<i>For >20 To 40, Deduct</i>	-81.26	
<i>For >40, Deduct</i>	-168.78	
26 56 13 00-0394 EA 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,506.16	410.78
<i>For Bronze Or Satin Anodized Finish, Add</i>	68.46	
<i>For Black Anodized Finish, Add</i>	136.92	
<i>For >10 To 20, Deduct</i>	-47.92	
<i>For >20 To 40, Deduct</i>	-89.00	
<i>For >40, Deduct</i>	-184.85	
26 56 13 00-0395 EA 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,608.55	448.13
<i>For Bronze Or Satin Anodized Finish, Add</i>	71.23	
<i>For Black Anodized Finish, Add</i>	142.46	
<i>For >10 To 20, Deduct</i>	-50.90	
<i>For >20 To 40, Deduct</i>	-94.67	
<i>For >40, Deduct</i>	-196.47	
26 56 13 00-0396 EA 23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,838.12	522.82
<i>For Bronze Or Satin Anodized Finish, Add</i>	79.25	
<i>For Black Anodized Finish, Add</i>	158.50	
<i>For >10 To 20, Deduct</i>	-57.84	
<i>For >20 To 40, Deduct</i>	-107.76	
<i>For >40, Deduct</i>	-223.44	
26 56 13 00-0397 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,073.43	597.51
<i>For Bronze Or Satin Anodized Finish, Add</i>	87.84	
<i>For Black Anodized Finish, Add</i>	175.68	
<i>For >10 To 20, Deduct</i>	-65.01	
<i>For >20 To 40, Deduct</i>	-121.24	
<i>For >40, Deduct</i>	-251.26	
26 56 13 00-0398 EA 23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,053.91	522.82
<i>For Bronze Or Satin Anodized Finish, Add</i>	100.83	
<i>For Black Anodized Finish, Add</i>	201.65	
<i>For >10 To 20, Deduct</i>	-66.47	
<i>For >20 To 40, Deduct</i>	-122.86	
<i>For >40, Deduct</i>	-255.80	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,278.71 108.37 216.74 -73.22 -135.61 -282.06	597.51
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,446.97 117.73 235.45 -78.83 -145.89 -303.56	634.86
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,599.00 125.46 250.92 -83.79 -155.04 -322.63	672.19
26 56	13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,728.96 134.72 269.44 -88.43 -163.39 -340.26	690.86
26 56	13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,843.65 142.46 284.91 -92.46 -170.67 -355.59	709.54
26 56	13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,943.04 148.66 297.32 -95.88 -176.88 -368.64	728.21
26 56	13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,114.07 162.03 324.06 -102.16 -188.11 -392.42	746.88
26 56	13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,859.44 158.97 317.95 -95.33 -174.77 -365.43	634.86
26 56	13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,076.40 173.20 346.40 -102.89 -188.46 -394.24	672.19
26 56	13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,225.46 184.37 368.74 -108.29 -198.15 -414.73	690.86
26 56	13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,341.10 192.20 384.40 -112.36 -205.50 -430.21	709.54
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,409.94 195.35 390.70 -114.55 -209.57 -438.67	728.21
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,597.19 210.34 420.68 -121.48 -221.93 -464.89	746.88
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,728.63 145.89 291.79 -90.10 -165.61 -345.81	634.86



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0413	EA		30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,928.40 158.40 316.80 -96.97 -178.10 -372.04	672.19
26 56 13 00-0414	EA		33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,008.72 162.70 325.40 -99.62 -182.98 -382.22	690.86
26 56 13 00-0415	EA		35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,198.84 177.98 355.95 -106.67 -195.54 -408.87	709.54
26 56 13 00-0416	EA		37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,297.27 184.09 368.17 -110.04 -201.68 -421.77	728.21
26 56 13 00-0417	EA		39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,485.48 199.17 398.34 -117.01 -214.11 -448.13	746.88
26 56 13 00-0418	EA		28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,326.34 205.66 411.33 -114.01 -207.45 -435.47	634.86
26 56 13 00-0419	EA		30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,517.51 217.31 434.62 -120.53 -219.34 -460.41	672.19
26 56 13 00-0420	EA		33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,668.49 228.68 457.35 -126.01 -229.16 -481.19	690.86
26 56 13 00-0421	EA		35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,896.80 247.77 495.54 -134.59 -244.39 -513.57	709.54
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,955.13 249.87 499.74 -136.36 -247.73 -520.45	728.21
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,182.49 268.87 537.74 -144.89 -262.90 -552.69	746.88
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,371.44 313.08 626.16 -181.25 -331.19 -693.68	1,120.33
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,489.83 324.92 649.84 -185.98 -339.48 -711.44	1,120.33
26 56 13 00-0426			Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)		
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	923.62 71.32 -30.22 -55.69 -116.14	224.06

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0428 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,018.36	261.41
For Bronze, Satin Or Black Anodized Finish, Add	74.33	
For >10 To 20, Deduct	-32.89	
For >20 To 40, Deduct	-60.83	
For >40, Deduct	-126.61	
26 56 13 00-0429 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,114.06	298.76
For Bronze, Satin Or Black Anodized Finish, Add	77.48	
For >10 To 20, Deduct	-35.60	
For >20 To 40, Deduct	-66.03	
For >40, Deduct	-137.23	
26 56 13 00-0430 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,211.65	336.10
For Bronze, Satin Or Black Anodized Finish, Add	80.92	
For >10 To 20, Deduct	-38.38	
For >20 To 40, Deduct	-71.37	
For >40, Deduct	-148.14	
26 56 13 00-0431 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,308.30	373.45
For Bronze, Satin Or Black Anodized Finish, Add	84.21	
For >10 To 20, Deduct	-41.13	
For >20 To 40, Deduct	-76.64	
For >40, Deduct	-158.90	
26 56 13 00-0432 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,029.82	261.41
For Bronze, Satin Or Black Anodized Finish, Add	76.05	
For >10 To 20, Deduct	-33.35	
For >20 To 40, Deduct	-61.63	
For >40, Deduct	-128.33	
26 56 13 00-0433 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,127.42	298.76
For Bronze, Satin Or Black Anodized Finish, Add	79.49	
For >10 To 20, Deduct	-36.13	
For >20 To 40, Deduct	-66.97	
For >40, Deduct	-139.24	
26 56 13 00-0434 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,226.93	336.10
For Bronze, Satin Or Black Anodized Finish, Add	83.21	
For >10 To 20, Deduct	-38.99	
For >20 To 40, Deduct	-72.44	
For >40, Deduct	-150.43	
26 56 13 00-0435 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,325.49	373.45
For Bronze, Satin Or Black Anodized Finish, Add	86.79	
For >10 To 20, Deduct	-41.82	
For >20 To 40, Deduct	-77.85	
For >40, Deduct	-161.48	
26 56 13 00-0436 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,436.46	410.78
For Bronze, Satin Or Black Anodized Finish, Add	92.23	
For >10 To 20, Deduct	-45.13	
For >20 To 40, Deduct	-84.12	
For >40, Deduct	-174.39	
26 56 13 00-0437 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,538.85	448.13
For Bronze, Satin Or Black Anodized Finish, Add	96.39	
For >10 To 20, Deduct	-48.11	
For >20 To 40, Deduct	-89.79	
For >40, Deduct	-186.01	
26 56 13 00-0438 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,164.66	298.76
For Bronze, Satin Or Black Anodized Finish, Add	85.07	
For >10 To 20, Deduct	-37.62	
For >20 To 40, Deduct	-69.58	
For >40, Deduct	-144.82	
26 56 13 00-0439 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,268.94	336.10
For Bronze, Satin Or Black Anodized Finish, Add	89.51	
For >10 To 20, Deduct	-40.67	
For >20 To 40, Deduct	-75.38	
For >40, Deduct	-156.73	
26 56 13 00-0440 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,384.69	373.45
For Bronze, Satin Or Black Anodized Finish, Add	95.67	
For >10 To 20, Deduct	-44.18	
For >20 To 40, Deduct	-81.99	
For >40, Deduct	-170.36	
26 56 13 00-0441 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,490.88	410.78
For Bronze, Satin Or Black Anodized Finish, Add	100.40	
For >10 To 20, Deduct	-47.31	
For >20 To 40, Deduct	-87.93	
For >40, Deduct	-182.55	
26 56 13 00-0442 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,609.51	448.13
For Bronze, Satin Or Black Anodized Finish, Add	106.99	
For >10 To 20, Deduct	-50.94	
For >20 To 40, Deduct	-94.74	
For >40, Deduct	-196.61	
26 56 13 00-0443 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,439.11	373.45
For Bronze, Satin Or Black Anodized Finish, Add	103.83	
For >10 To 20, Deduct	-46.36	
For >20 To 40, Deduct	-85.80	
For >40, Deduct	-178.52	
26 56 13 00-0444 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,564.40	410.78
For Bronze, Satin Or Black Anodized Finish, Add	111.42	
For >10 To 20, Deduct	-50.25	
For >20 To 40, Deduct	-93.08	
For >40, Deduct	-193.58	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0445	EA		20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,668.70 115.86 -53.30 -98.88 -205.49	448.13
26 56 13 00-0446	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,194.26 89.51 -38.81 -71.65 -149.26	298.76
26 56 13 00-0447	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,313.82 96.24 -42.47 -78.52 -163.46	336.10
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,439.11 103.83 -46.36 -85.80 -178.52	373.45
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,552.95 109.71 -49.79 -92.28 -191.86	410.78
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,673.48 116.58 -53.50 -99.22 -206.21	448.13
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,501.17 113.14 -48.84 -90.14 -187.83	373.45
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,634.10 121.88 -53.04 -97.96 -204.04	410.78
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,743.18 127.04 -56.28 -104.10 -216.66	448.13
26 56 13 00-0454			Round Tapered, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0354)</small> Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	656.07 28.26 56.52 -20.64 -38.46 -79.74	186.72
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	682.81 30.94 61.87 -21.71 -40.33 -83.75	186.72
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	742.10 33.13 66.26 -23.52 -43.73 -90.78	205.39
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	794.72 34.66 69.32 -25.07 -46.67 -96.80	224.06
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	829.10 38.10 76.19 -26.44 -49.07 -101.96	224.06
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	767.88 35.71 71.42 -24.55 -45.54 -94.64	205.39

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0461 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	831.96	224.06
For Bronze Or Satin Anodized Finish, Add	38.38	
For Black Anodized Finish, Add	76.77	
For >10 To 20, Deduct	-26.56	
For >20 To 40, Deduct	-49.27	
For >40, Deduct	-102.39	
26 56 13 00-0462 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	851.06	224.06
For Bronze Or Satin Anodized Finish, Add	40.29	
For Black Anodized Finish, Add	80.59	
For >10 To 20, Deduct	-27.32	
For >20 To 40, Deduct	-50.61	
For >40, Deduct	-105.25	
26 56 13 00-0463 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	918.95	242.74
For Bronze Or Satin Anodized Finish, Add	43.35	
For Black Anodized Finish, Add	86.70	
For >10 To 20, Deduct	-29.48	
For >20 To 40, Deduct	-54.62	
For >40, Deduct	-113.57	
26 56 13 00-0464 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	983.03	261.41
For Bronze Or Satin Anodized Finish, Add	46.02	
For Black Anodized Finish, Add	92.04	
For >10 To 20, Deduct	-31.48	
For >20 To 40, Deduct	-58.36	
For >40, Deduct	-121.31	
26 56 13 00-0465 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	906.43	224.06
For Bronze Or Satin Anodized Finish, Add	45.83	
For Black Anodized Finish, Add	91.66	
For >10 To 20, Deduct	-29.54	
For >20 To 40, Deduct	-54.49	
For >40, Deduct	-113.56	
26 56 13 00-0466 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	980.06	242.74
For Bronze Or Satin Anodized Finish, Add	49.46	
For Black Anodized Finish, Add	98.92	
For >10 To 20, Deduct	-31.92	
For >20 To 40, Deduct	-58.89	
For >40, Deduct	-122.74	
26 56 13 00-0467 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,048.91	261.41
For Bronze Or Satin Anodized Finish, Add	52.61	
For Black Anodized Finish, Add	105.22	
For >10 To 20, Deduct	-34.11	
For >20 To 40, Deduct	-62.97	
For >40, Deduct	-131.20	
26 56 13 00-0468 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,058.35	242.74
For Bronze Or Satin Anodized Finish, Add	57.29	
For Black Anodized Finish, Add	114.58	
For >10 To 20, Deduct	-35.05	
For >20 To 40, Deduct	-64.38	
For >40, Deduct	-134.48	
26 56 13 00-0469 EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,348.94	298.76
For Bronze Or Satin Anodized Finish, Add	75.14	
For Black Anodized Finish, Add	150.29	
For >10 To 20, Deduct	-44.99	
For >20 To 40, Deduct	-82.48	
For >40, Deduct	-172.47	
26 56 13 00-0470 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,456.83	298.76
For Bronze Or Satin Anodized Finish, Add	85.93	
For Black Anodized Finish, Add	171.86	
For >10 To 20, Deduct	-49.31	
For >20 To 40, Deduct	-90.03	
For >40, Deduct	-188.65	
26 56 13 00-0471 EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,624.13	336.10
For Bronze Or Satin Anodized Finish, Add	95.19	
For Black Anodized Finish, Add	190.39	
For >10 To 20, Deduct	-54.88	
For >20 To 40, Deduct	-100.25	
For >40, Deduct	-210.01	
26 56 13 00-0472 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,741.57	336.10
For Bronze Or Satin Anodized Finish, Add	106.94	
For Black Anodized Finish, Add	213.88	
For >10 To 20, Deduct	-59.58	
For >20 To 40, Deduct	-108.47	
For >40, Deduct	-227.63	
26 56 13 00-0473 Square Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0474 Square Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0473)</small>		
26 56 13 00-0475 EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	842.46	224.06
For Bronze Or Satin Anodized Finish, Add	39.43	
For Black Anodized Finish, Add	78.87	
For >10 To 20, Deduct	-26.98	
For >20 To 40, Deduct	-50.01	
For >40, Deduct	-103.96	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0476	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	937.20 41.44 82.88 -29.65 -55.15 -114.44	261.41
26 56	13 00-0477	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,039.58 44.21 88.41 -32.62 -60.82 -126.06	298.76
26 56	13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,141.00 46.88 93.76 -35.56 -66.43 -137.54	336.10
26 56	13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,195.53 48.60 97.20 -37.18 -69.50 -143.85	354.77
26 56	13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,250.06 50.32 100.64 -38.80 -72.57 -150.17	373.45
26 56	13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,357.21 53.56 107.13 -41.96 -78.57 -162.50	410.78
26 56	13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,472.97 57.67 115.34 -45.47 -85.18 -176.13	448.13
26 56	13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,315.94 56.91 113.81 -41.43 -77.18 -160.05	373.45
26 56	13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,425.00 60.34 120.69 -44.68 -83.32 -172.67	410.78
26 56	13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,546.49 65.02 130.04 -48.42 -90.33 -187.16	448.13
26 56	13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,481.97 77.24 154.49 -48.64 -89.55 -186.82	354.77
26 56	13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,820.52 92.43 184.85 -59.38 -109.51 -228.26	448.13
26 56	13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,238.61 104.36 208.72 -71.62 -132.80 -276.04	597.51
26 56	13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,605.69 70.94 141.88 -50.78 -94.47 -196.04	448.13

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0490 EA 20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	1,936.05	448.13
For Bronze Or Satin Anodized Finish, Add	103.98	
For Black Anodized Finish, Add	207.96	
For >10 To 20, Deduct	-64.00	
For >20 To 40, Deduct	-117.60	
For >40, Deduct	-245.59	
26 56 13 00-0491 EA 25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,343.63	597.51
For Bronze Or Satin Anodized Finish, Add	114.86	
For Black Anodized Finish, Add	229.72	
For >10 To 20, Deduct	-75.82	
For >20 To 40, Deduct	-140.15	
For >40, Deduct	-291.79	
26 56 13 00-0492 EA 20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,117.46	448.13
For Bronze Or Satin Anodized Finish, Add	122.12	
For Black Anodized Finish, Add	244.24	
For >10 To 20, Deduct	-71.25	
For >20 To 40, Deduct	-130.30	
For >40, Deduct	-272.81	
26 56 13 00-0493 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,580.42	597.51
For Bronze Or Satin Anodized Finish, Add	138.54	
For Black Anodized Finish, Add	277.08	
For >10 To 20, Deduct	-85.29	
For >20 To 40, Deduct	-156.73	
For >40, Deduct	-327.31	
26 56 13 00-0494 EA 30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	2,976.14	672.19
For Bronze Or Satin Anodized Finish, Add	163.18	
For Black Anodized Finish, Add	326.35	
For >10 To 20, Deduct	-98.88	
For >20 To 40, Deduct	-181.44	
For >40, Deduct	-379.20	
26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial <small>(26 56 13 00-0473)</small>		
Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	749.64	186.72
For Bronze Or Satin Anodized Finish, Add	37.62	
For Black Anodized Finish, Add	75.24	
For >10 To 20, Deduct	-24.38	
For >20 To 40, Deduct	-45.01	
For >40, Deduct	-93.77	
26 56 13 00-0497 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	835.67	205.39
For Bronze Or Satin Anodized Finish, Add	42.49	
For Black Anodized Finish, Add	84.98	
For >10 To 20, Deduct	-27.27	
For >20 To 40, Deduct	-50.28	
For >40, Deduct	-104.81	
26 56 13 00-0498 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	893.07	224.06
For Bronze Or Satin Anodized Finish, Add	44.49	
For Black Anodized Finish, Add	88.99	
For >10 To 20, Deduct	-29.00	
For >20 To 40, Deduct	-53.55	
For >40, Deduct	-111.55	
26 56 13 00-0499 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	916.94	224.06
For Bronze Or Satin Anodized Finish, Add	46.88	
For Black Anodized Finish, Add	93.76	
For >10 To 20, Deduct	-29.96	
For >20 To 40, Deduct	-55.22	
For >40, Deduct	-115.13	
26 56 13 00-0500 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	946.54	224.06
For Bronze Or Satin Anodized Finish, Add	49.84	
For Black Anodized Finish, Add	99.68	
For >10 To 20, Deduct	-31.14	
For >20 To 40, Deduct	-57.30	
For >40, Deduct	-119.57	
26 56 13 00-0501 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,085.08	242.74
For Bronze Or Satin Anodized Finish, Add	59.96	
For Black Anodized Finish, Add	119.92	
For >10 To 20, Deduct	-36.12	
For >20 To 40, Deduct	-66.25	
For >40, Deduct	-138.49	
26 56 13 00-0502 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,163.49	261.41
For Bronze Or Satin Anodized Finish, Add	64.07	
For Black Anodized Finish, Add	128.13	
For >10 To 20, Deduct	-38.70	
For >20 To 40, Deduct	-70.99	
For >40, Deduct	-148.38	
26 56 13 00-0503 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,313.39	261.41
For Bronze Or Satin Anodized Finish, Add	79.06	
For Black Anodized Finish, Add	158.11	
For >10 To 20, Deduct	-44.69	
For >20 To 40, Deduct	-81.48	
For >40, Deduct	-170.87	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0504 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,508.39	298.76
For Bronze Or Satin Anodized Finish, Add	91.09	
For Black Anodized Finish, Add	182.18	
For >10 To 20, Deduct	-51.37	
For >20 To 40, Deduct	-93.64	
For >40, Deduct	-196.38	
26 56 13 00-0505 EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	1,843.52	298.76
For Bronze Or Satin Anodized Finish, Add	124.60	
For Black Anodized Finish, Add	249.20	
For >10 To 20, Deduct	-64.78	
For >20 To 40, Deduct	-117.10	
For >40, Deduct	-246.65	
26 56 13 00-0506 Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0507 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	64.83	
26 56 13 00-0508 EA Extra Handhole For Aluminum Area Light Poles.....	35.59	
26 56 13 00-0509 EA Vibration Dampener For Aluminum Area Light Poles	98.07	
26 56 13 00-0510 Fiberglass Area Light Poles (26 56 13 00-0177)		
Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511 Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0512 Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)		
26 56 13 00-0513 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,597.93	261.41
For >10 To 20, Deduct	-56.07	
For >20 To 40, Deduct	-101.40	
For >40, Deduct	-213.55	
26 56 13 00-0514 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,736.62	298.76
For >10 To 20, Deduct	-60.50	
For >20 To 40, Deduct	-109.61	
For >40, Deduct	-230.62	
26 56 13 00-0515 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,877.12	336.10
For >10 To 20, Deduct	-65.00	
For >20 To 40, Deduct	-117.95	
For >40, Deduct	-247.96	
26 56 13 00-0516 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,015.80	373.45
For >10 To 20, Deduct	-69.43	
For >20 To 40, Deduct	-126.17	
For >40, Deduct	-265.03	
26 56 13 00-0517 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,187.40	410.78
For >10 To 20, Deduct	-75.17	
For >20 To 40, Deduct	-136.69	
For >40, Deduct	-287.03	
26 56 13 00-0518 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,329.75	448.13
For >10 To 20, Deduct	-79.75	
For >20 To 40, Deduct	-145.16	
For >40, Deduct	-304.65	
26 56 13 00-0519 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,544.94	522.82
For >10 To 20, Deduct	-86.11	
For >20 To 40, Deduct	-157.23	
For >40, Deduct	-329.46	
26 56 13 00-0520 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,758.31	597.51
For >10 To 20, Deduct	-92.41	
For >20 To 40, Deduct	-169.18	
For >40, Deduct	-354.00	
26 56 13 00-0521 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,906.41	597.51
For >10 To 20, Deduct	-98.33	
For >20 To 40, Deduct	-179.55	
For >40, Deduct	-376.21	
26 56 13 00-0522 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,110.92	634.86
For >10 To 20, Deduct	-105.39	
For >20 To 40, Deduct	-192.37	
For >40, Deduct	-403.15	
26 56 13 00-0523 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,315.43	672.19
For >10 To 20, Deduct	-112.45	
For >20 To 40, Deduct	-205.19	
For >40, Deduct	-430.10	
26 56 13 00-0524 EA 10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,766.15	261.41
For >10 To 20, Deduct	-62.80	
For >20 To 40, Deduct	-113.17	
For >40, Deduct	-238.78	
26 56 13 00-0525 EA 12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,871.92	298.76
For >10 To 20, Deduct	-65.91	
For >20 To 40, Deduct	-119.08	
For >40, Deduct	-250.91	
26 56 13 00-0526 EA 14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,979.51	336.10
For >10 To 20, Deduct	-69.10	
For >20 To 40, Deduct	-125.12	
For >40, Deduct	-263.32	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0527 EA 16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,090.77	373.45
For >10 To 20, Deduct	-72.43	
For >20 To 40, Deduct	-131.42	
For >40, Deduct	-276.27	
26 56 13 00-0528 EA 18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,211.17	410.78
For >10 To 20, Deduct	-76.12	
For >20 To 40, Deduct	-138.35	
For >40, Deduct	-290.60	
26 56 13 00-0529 EA 20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,329.75	448.13
For >10 To 20, Deduct	-79.75	
For >20 To 40, Deduct	-145.16	
For >40, Deduct	-304.65	
26 56 13 00-0530 EA 22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,523.00	522.82
For >10 To 20, Deduct	-85.24	
For >20 To 40, Deduct	-155.70	
For >40, Deduct	-326.17	
26 56 13 00-0531 EA 24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,758.31	597.51
For >10 To 20, Deduct	-92.41	
For >20 To 40, Deduct	-169.18	
For >40, Deduct	-354.00	
26 56 13 00-0532 EA 26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,820.48	597.51
For >10 To 20, Deduct	-94.89	
For >20 To 40, Deduct	-173.53	
For >40, Deduct	-363.32	
26 56 13 00-0533 EA 28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,959.16	634.86
For >10 To 20, Deduct	-99.32	
For >20 To 40, Deduct	-181.75	
For >40, Deduct	-380.39	
26 56 13 00-0534 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,097.84	672.19
For >10 To 20, Deduct	-103.75	
For >20 To 40, Deduct	-189.96	
For >40, Deduct	-397.46	
26 56 13 00-0535 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,012.98	261.41
For >10 To 20, Deduct	-72.68	
For >20 To 40, Deduct	-130.45	
For >40, Deduct	-275.81	
26 56 13 00-0536 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,144.35	298.76
For >10 To 20, Deduct	-76.81	
For >20 To 40, Deduct	-138.15	
For >40, Deduct	-291.78	
26 56 13 00-0537 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,275.71	336.10
For >10 To 20, Deduct	-80.95	
For >20 To 40, Deduct	-145.86	
For >40, Deduct	-307.75	
26 56 13 00-0538 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,408.91	373.45
For >10 To 20, Deduct	-85.15	
For >20 To 40, Deduct	-153.69	
For >40, Deduct	-323.99	
26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,549.43	410.78
For >10 To 20, Deduct	-89.65	
For >20 To 40, Deduct	-162.03	
For >40, Deduct	-341.34	
26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,700.92	448.13
For >10 To 20, Deduct	-94.59	
For >20 To 40, Deduct	-171.14	
For >40, Deduct	-360.32	
26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,943.54	522.82
For >10 To 20, Deduct	-102.06	
For >20 To 40, Deduct	-185.14	
For >40, Deduct	-389.25	
26 56 13 00-0542 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,187.99	597.51
For >10 To 20, Deduct	-109.59	
For >20 To 40, Deduct	-199.26	
For >40, Deduct	-418.45	
26 56 13 00-0543 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,283.07	597.51
For >10 To 20, Deduct	-113.40	
For >20 To 40, Deduct	-205.91	
For >40, Deduct	-432.71	
26 56 13 00-0544 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,507.69	634.86
For >10 To 20, Deduct	-121.26	
For >20 To 40, Deduct	-220.14	
For >40, Deduct	-462.67	
26 56 13 00-0545 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,690.25	672.19
For >10 To 20, Deduct	-127.44	
For >20 To 40, Deduct	-231.43	
For >40, Deduct	-486.32	
26 56 13 00-0546 EA 32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,835.48	690.86
For >10 To 20, Deduct	-132.69	
For >20 To 40, Deduct	-240.85	
For >40, Deduct	-506.24	
26 56 13 00-0547 EA 34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,980.71	709.54
For >10 To 20, Deduct	-137.94	
For >20 To 40, Deduct	-250.27	
For >40, Deduct	-526.15	



	Electrical	26
	Lighting	26 50
	Exterior Lighting	26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0548			Round Tapered, Fiberglass Area Light Poles, Direct Burial <small>(26 56 13 00-0511)</small>		
26 56 13 00-0549	EA		10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	987.80	186.72
			<i>For >10 To 20, Deduct</i>	-33.91	
			<i>For >20 To 40, Deduct</i>	-61.68	
			<i>For >40, Deduct</i>	-129.50	
26 56 13 00-0550	EA		12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,059.87	205.39
			<i>For >10 To 20, Deduct</i>	-36.23	
			<i>For >20 To 40, Deduct</i>	-65.98	
			<i>For >40, Deduct</i>	-138.44	
26 56 13 00-0551	EA		14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,130.13	224.06
			<i>For >10 To 20, Deduct</i>	-38.48	
			<i>For >20 To 40, Deduct</i>	-70.15	
			<i>For >40, Deduct</i>	-147.11	
26 56 13 00-0552	EA		16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,161.21	224.06
			<i>For >10 To 20, Deduct</i>	-39.73	
			<i>For >20 To 40, Deduct</i>	-72.32	
			<i>For >40, Deduct</i>	-151.78	
26 56 13 00-0553	EA		18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,249.75	242.74
			<i>For >10 To 20, Deduct</i>	-42.71	
			<i>For >20 To 40, Deduct</i>	-77.77	
			<i>For >40, Deduct</i>	-163.19	
26 56 13 00-0554	EA		20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,323.67	261.41
			<i>For >10 To 20, Deduct</i>	-45.10	
			<i>For >20 To 40, Deduct</i>	-82.20	
			<i>For >40, Deduct</i>	-172.41	
26 56 13 00-0555	EA		22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,403.06	280.08
			<i>For >10 To 20, Deduct</i>	-47.72	
			<i>For >20 To 40, Deduct</i>	-87.01	
			<i>For >40, Deduct</i>	-182.45	
26 56 13 00-0556	EA		24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,491.61	298.76
			<i>For >10 To 20, Deduct</i>	-50.70	
			<i>For >20 To 40, Deduct</i>	-92.46	
			<i>For >40, Deduct</i>	-193.87	
26 56 13 00-0557	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,667.14	298.76
			<i>For >10 To 20, Deduct</i>	-57.72	
			<i>For >20 To 40, Deduct</i>	-104.75	
			<i>For >40, Deduct</i>	-220.20	
26 56 13 00-0558	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,880.01	317.43
			<i>For >10 To 20, Deduct</i>	-65.68	
			<i>For >20 To 40, Deduct</i>	-118.90	
			<i>For >40, Deduct</i>	-250.26	
26 56 13 00-0559	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,092.87	336.10
			<i>For >10 To 20, Deduct</i>	-73.63	
			<i>For >20 To 40, Deduct</i>	-133.06	
			<i>For >40, Deduct</i>	-280.32	
26 56 13 00-0560	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,156.01	186.72
			<i>For >10 To 20, Deduct</i>	-40.64	
			<i>For >20 To 40, Deduct</i>	-73.45	
			<i>For >40, Deduct</i>	-154.73	
26 56 13 00-0561	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,237.23	205.39
			<i>For >10 To 20, Deduct</i>	-43.33	
			<i>For >20 To 40, Deduct</i>	-78.39	
			<i>For >40, Deduct</i>	-165.05	
26 56 13 00-0562	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,318.46	224.06
			<i>For >10 To 20, Deduct</i>	-46.02	
			<i>For >20 To 40, Deduct</i>	-83.33	
			<i>For >40, Deduct</i>	-175.36	
26 56 13 00-0563	EA		16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,364.17	224.06
			<i>For >10 To 20, Deduct</i>	-47.84	
			<i>For >20 To 40, Deduct</i>	-86.53	
			<i>For >40, Deduct</i>	-182.22	
26 56 13 00-0564	EA		18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,445.39	242.74
			<i>For >10 To 20, Deduct</i>	-50.53	
			<i>For >20 To 40, Deduct</i>	-91.47	
			<i>For >40, Deduct</i>	-192.54	
26 56 13 00-0565	EA		20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,526.62	261.41
			<i>For >10 To 20, Deduct</i>	-53.22	
			<i>For >20 To 40, Deduct</i>	-96.41	
			<i>For >40, Deduct</i>	-202.85	
26 56 13 00-0566	EA		22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,607.84	280.08
			<i>For >10 To 20, Deduct</i>	-55.91	
			<i>For >20 To 40, Deduct</i>	-101.35	
			<i>For >40, Deduct</i>	-213.17	
26 56 13 00-0567	EA		24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,731.13	298.76
			<i>For >10 To 20, Deduct</i>	-60.28	
			<i>For >20 To 40, Deduct</i>	-109.23	
			<i>For >40, Deduct</i>	-229.79	
26 56 13 00-0568	EA		26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,901.17	298.76
			<i>For >10 To 20, Deduct</i>	-67.08	
			<i>For >20 To 40, Deduct</i>	-121.13	
			<i>For >40, Deduct</i>	-255.30	
26 56 13 00-0569	EA		28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,110.39	317.43
			<i>For >10 To 20, Deduct</i>	-74.89	
			<i>For >20 To 40, Deduct</i>	-135.03	
			<i>For >40, Deduct</i>	-284.82	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0570	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,317.77	336.10
			<i>For >10 To 20, Deduct</i>	-82.63	
			<i>For >20 To 40, Deduct</i>	-148.80	
			<i>For >40, Deduct</i>	-314.06	
26 56	13 00-0571	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,304.12	186.72
			<i>For >10 To 20, Deduct</i>	-46.56	
			<i>For >20 To 40, Deduct</i>	-83.82	
			<i>For >40, Deduct</i>	-176.95	
26 56	13 00-0572	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,374.36	205.39
			<i>For >10 To 20, Deduct</i>	-48.81	
			<i>For >20 To 40, Deduct</i>	-87.99	
			<i>For >40, Deduct</i>	-185.62	
26 56	13 00-0573	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,442.79	224.06
			<i>For >10 To 20, Deduct</i>	-50.99	
			<i>For >20 To 40, Deduct</i>	-92.03	
			<i>For >40, Deduct</i>	-194.01	
26 56	13 00-0574	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,473.87	224.06
			<i>For >10 To 20, Deduct</i>	-52.23	
			<i>For >20 To 40, Deduct</i>	-94.21	
			<i>For >40, Deduct</i>	-198.67	
26 56	13 00-0575	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,542.30	242.74
			<i>For >10 To 20, Deduct</i>	-54.41	
			<i>For >20 To 40, Deduct</i>	-98.25	
			<i>For >40, Deduct</i>	-207.07	
26 56	13 00-0576	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,612.56	261.41
			<i>For >10 To 20, Deduct</i>	-56.66	
			<i>For >20 To 40, Deduct</i>	-102.42	
			<i>For >40, Deduct</i>	-215.74	
26 56	13 00-0577	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,744.98	280.08
			<i>For >10 To 20, Deduct</i>	-61.40	
			<i>For >20 To 40, Deduct</i>	-110.95	
			<i>For >40, Deduct</i>	-233.74	
26 56	13 00-0578	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,899.35	298.76
			<i>For >10 To 20, Deduct</i>	-67.01	
			<i>For >20 To 40, Deduct</i>	-121.00	
			<i>For >40, Deduct</i>	-255.03	
26 56	13 00-0579	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,005.39	298.76
			<i>For >10 To 20, Deduct</i>	-71.25	
			<i>For >20 To 40, Deduct</i>	-128.43	
			<i>For >40, Deduct</i>	-270.93	
26 56	13 00-0580	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,150.62	317.43
			<i>For >10 To 20, Deduct</i>	-76.50	
			<i>For >20 To 40, Deduct</i>	-137.85	
			<i>For >40, Deduct</i>	-290.85	
26 56	13 00-0581	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,295.83	336.10
			<i>For >10 To 20, Deduct</i>	-81.75	
			<i>For >20 To 40, Deduct</i>	-147.26	
			<i>For >40, Deduct</i>	-310.77	
26 56	13 00-0582		Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
	26 56 13 00-0583	EA	Open Or Capped Top For Fiberglass Area Light Poles.....	64.83	
	26 56 13 00-0584	EA	Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	64.83	
	26 56 13 00-0585	EA	Smooth Shaft Finish For Fiberglass Area Light Poles.....	123.00	
	26 56 13 00-0586	EA	Vibration Dampener For Fiberglass Area Light Poles.....	162.90	
26 56	13 00-0587		Concrete Area Light Poles (26 56 13 00-0177)		
26 56	13 00-0588		Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
	26 56 13 00-0589	EA	28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,713.03	634.86
	26 56 13 00-0590	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,859.89	672.19
	26 56 13 00-0591	EA	33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,967.73	690.86
	26 56 13 00-0592	EA	36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,716.33	709.54
	26 56 13 00-0593	EA	38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,135.59	746.88
	26 56 13 00-0594	EA	43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,110.55	970.95
	26 56 13 00-0595	EA	47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,116.82	1,195.01
	26 56 13 00-0596	EA	27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	6,021.64	634.86
	26 56 13 00-0597	EA	30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	6,960.34	672.19
	26 56 13 00-0598	EA	Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	657.72	224.06
	26 56 13 00-0599	EA	13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,611.78	447.98
	26 56 13 00-0600	EA	Pole Base Cover For All Octagon Poles.....	255.96	91.42
	26 56 13 00-0601	EA	Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	523.29	182.84
26 56	13 00-0602		Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
			Note: Round or square.		
	26 56 13 00-0603	EA	13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	2,981.72	298.76
	26 56 13 00-0604	EA	16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,362.97	373.45
	26 56 13 00-0605	EA	18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,707.21	448.13
	26 56 13 00-0606	EA	30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,157.10	672.19
	26 56 13 00-0607	EA	35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,958.46	709.54



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,825.46	746.88
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	7,893.86	970.95
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	15,717.02	1,680.49
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	18,687.47	2,050.59
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	22,226.77	2,770.09
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177) See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615) Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,353.20	186.72
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,435.96	215.10
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,552.66	224.06
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,900.87	261.41
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,209.60	283.82
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,532.73	306.22
26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	533.10	224.06
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	866.42	298.76
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	493.11	224.06
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	826.43	298.76
26 56 13 00-0632 Steel Landscape Light Poles (26 56 13 00-0623) Note: Includes painted finish.		
26 56 13 00-0633 Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)		
26 56 13 00-0634 Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)		
26 56 13 00-0635 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	558.80	224.06
26 56 13 00-0636 Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)		
26 56 13 00-0637 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	534.01	224.06
26 56 13 00-0638 Light Pole Brackets And Arms (26 56 13 00-0001)		
26 56 13 00-0639 Light Pole Brackets (26 56 13 00-0638)		
26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes powdercoat finish.		
26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	533.45	44.81
For Galvanized Finish, Add	44.38	
26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	667.36	44.81
For Galvanized Finish, Add	57.77	
26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	708.23	44.81
For Galvanized Finish, Add	61.86	
26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	960.54	44.81
For Galvanized Finish, Add	87.09	
26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	999.83	44.81
For Galvanized Finish, Add	91.02	
26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641) Note: Includes satin brushed or painted finish.		
26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	245.25	44.81
For Bronze Or Satin Anodized Finish, Add	15.56	
For Black Anodized Finish, Add	31.13	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	294.90	44.81
For Bronze Or Satin Anodized Finish, Add	20.53	
For Black Anodized Finish, Add	41.06	
26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	308.27	44.81
For Bronze Or Satin Anodized Finish, Add	21.87	
For Black Anodized Finish, Add	43.73	
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	355.05	44.81
For Bronze Or Satin Anodized Finish, Add	26.54	
For Black Anodized Finish, Add	53.09	
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	364.60	44.81
For Bronze Or Satin Anodized Finish, Add	27.50	
For Black Anodized Finish, Add	55.00	
26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)		
26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654)		
Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	571.68	44.81
For Galvanized Finish, Add	48.21	
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	699.95	44.81
For Galvanized Finish, Add	61.03	
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	850.60	44.81
For Galvanized Finish, Add	76.10	
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	1,001.95	44.81
For Galvanized Finish, Add	91.23	
26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)		
26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660)		
Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	559.90	74.69
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	822.43	74.69
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,133.06	74.69
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,235.25	74.69
26 56 13 00-0666 Light Pole Arms (26 56 13 00-0638)		
26 56 13 00-0667 Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668 Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	339.18	67.22
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	360.98	74.69
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	422.47	93.36
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	486.78	74.69
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	547.92	93.36
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	664.37	112.04
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	256.28	74.69
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	311.12	74.69
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	413.61	93.36
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	538.82	112.04
26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	617.45	74.69
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	948.70	82.16
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,053.23	89.62
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,245.53	97.10
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	738.90	93.36
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,037.25	100.83
26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	305.00	74.69
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	376.73	93.36
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	450.35	112.04
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	303.09	74.69
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	421.15	82.16
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	372.91	93.36
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	513.88	100.83
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	452.26	112.04
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	622.83	119.50
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,464.72	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0700 High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701 High Mast Lighting Assemblies (26 56 13 00-0700)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly.....	46,731.54	2,276.23
26 56 13 00-0703 EA 70' High Mast Lighting Assembly.....	49,356.11	2,384.01
26 56 13 00-0704 EA 80' High Mast Lighting Assembly.....	52,026.02	2,539.71
26 56 13 00-0705 EA 90' High Mast Lighting Assembly.....	54,739.70	2,743.32
26 56 13 00-0706 EA 100' High Mast Lighting Assembly.....	57,480.74	2,994.76
26 56 13 00-0707 EA 110' High Mast Lighting Assembly.....	61,009.16	3,294.47
26 56 13 00-0708 EA 120' High Mast Lighting Assembly.....	63,876.14	3,593.92
26 56 13 00-0709 EA 130' High Mast Lighting Assembly.....	66,531.76	3,893.38
26 56 13 00-0710 EA 140' High Mast Lighting Assembly.....	69,398.73	4,192.99
26 56 13 00-0711 EA 150' High Mast Lighting Assembly.....	72,863.77	4,492.44
26 56 13 00-0712 High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713 EA 60' High Mast Light Poles.....	18,095.78	1,367.06
26 56 13 00-0714 EA 70' High Mast Light Poles.....	20,687.98	1,431.81
26 56 13 00-0715 EA 80' High Mast Light Poles.....	23,311.12	1,525.35
26 56 13 00-0716 EA 90' High Mast Light Poles.....	25,963.65	1,647.67
26 56 13 00-0717 EA 100' High Mast Light Poles.....	28,647.12	1,798.76
26 56 13 00-0718 EA 110' High Mast Light Poles.....	31,361.54	1,978.64
26 56 13 00-0719 EA 120' High Mast Light Poles.....	33,434.05	2,158.51
26 56 13 00-0720 EA 130' High Mast Light Poles.....	32,955.26	4,000.44
26 56 13 00-0721 EA 140' High Mast Light Poles.....	37,366.17	2,518.27
26 56 13 00-0722 EA 150' High Mast Light Poles.....	39,651.61	2,698.14
26 56 13 00-0723 High Mast Lighting Accessories (26 56 13 00-0700)		
See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting.....	836.87	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting.....	2,335.70	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting.....	1,768.60	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting.....	752.19	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting.....	1,415.19	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting.....	14,809.71	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting.....	14,919.30	
26 56 13 00-0731 Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732 Concrete Bases, Cast In Place (26 56 13 00-0731)		
Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733 EA Cast In Place Concrete Base For Poles Minimum Charge.....	325.98	
Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734 VLF 1-1/2' Diameter Concrete Base For Poles.....	47.30	
26 56 13 00-0735 VLF 2' Diameter Concrete Base For Poles.....	74.26	
26 56 13 00-0736 VLF 2-1/2' Diameter Concrete Base For Poles.....	107.74	
26 56 13 00-0737 VLF 3' Diameter Concrete Base For Poles.....	148.41	
26 56 13 00-0738 VLF 3-1/2' Diameter Concrete Base For Poles.....	199.30	
26 56 13 00-0739 VLF 4' Diameter Concrete Base For Poles.....	254.64	
26 56 13 00-0740 VLF 5' Diameter Concrete Base For Poles.....	380.12	
26 56 13 00-0741 VLF 6' Diameter Concrete Base For Poles.....	531.89	
26 56 18 Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001 Exterior Globe (26 56 18)		
26 56 18 00-0002 Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	66.16	25.01
26 56 18 00-0004 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture.....	99.63	25.01
26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	76.96	25.01
26 56 18 00-0006 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture.....	103.79	25.01
26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	268.16	100.01
26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	280.71	106.26
26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	306.54	112.51
26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	306.79	125.01
26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	346.95	143.76

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 19 LED Exterior Lighting (26 56)

26 56 19 00-0001	LED, Wall Packs <small>(26 56 19)</small>		
26 56 19 00-0002	Full Cutoff, LED Wall Packs <small>(26 56 19 00-0001)</small>		
26 56 19 00-0003	Full Cutoff, LED Wall Packs (Lithonia) <small>(26 56 19 00-0002)</small>		
26 56 19 00-0004	EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	949.30	131.64
	<i>For >50 To 100, Deduct</i>	-47.47	
	<i>For >100 To 250, Deduct</i>	-71.20	
	<i>For >250 To 500, Deduct</i>	-112.08	
	<i>For >500 To 1000, Deduct</i>	-152.96	
	<i>For >1000, Deduct</i>	-193.85	
26 56 19 00-0005	EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,023.76	131.64
	<i>For >50 To 100, Deduct</i>	-51.19	
	<i>For >100 To 250, Deduct</i>	-76.78	
	<i>For >250 To 500, Deduct</i>	-121.39	
	<i>For >500 To 1000, Deduct</i>	-165.99	
	<i>For >1000, Deduct</i>	-210.60	
26 56 19 00-0006	Full Cutoff, LED Wall Packs (CREE® BetaLED®) <small>(26 56 19 00-0002)</small>		
26 56 19 00-0007	Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <small>(26 56 19 00-0006)</small>		
	Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0008	EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	802.34	127.87
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
	<i>For Bird Spikes, Add</i>	41.31	
	<i>For Fuse, Add</i>	45.26	
	<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
	<i>For 480 Volt, Add</i>	67.90	
	<i>For Multi-Level, Add</i>	98.07	
	<i>For >50 To 100, Deduct</i>	-40.12	
	<i>For >100 To 250, Deduct</i>	-60.18	
	<i>For >250 To 500, Deduct</i>	-93.90	
	<i>For >500 To 1000, Deduct</i>	-127.62	
	<i>For >1000, Deduct</i>	-161.34	
26 56 19 00-0009	EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,015.42	135.40
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
	<i>For Bird Spikes, Add</i>	42.06	
	<i>For Fuse, Add</i>	45.26	
	<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
	<i>For 480 Volt, Add</i>	67.90	
	<i>For Multi-Level, Add</i>	98.07	
	<i>For >50 To 100, Deduct</i>	-50.77	
	<i>For >100 To 250, Deduct</i>	-76.16	
	<i>For >250 To 500, Deduct</i>	-120.16	
	<i>For >500 To 1000, Deduct</i>	-164.16	
	<i>For >1000, Deduct</i>	-208.16	
26 56 19 00-0010	EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,132.75	142.92
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
	<i>For Bird Spikes, Add</i>	42.81	
	<i>For Fuse, Add</i>	45.26	
	<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
	<i>For 480 Volt, Add</i>	67.90	
	<i>For Multi-Level, Add</i>	98.07	
	<i>For >50 To 100, Deduct</i>	-56.64	
	<i>For >100 To 250, Deduct</i>	-84.96	
	<i>For >250 To 500, Deduct</i>	-134.45	
	<i>For >500 To 1000, Deduct</i>	-183.94	
	<i>For >1000, Deduct</i>	-233.43	
26 56 19 00-0011	EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG).....	1,441.58	150.45
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
	<i>For Bird Spikes, Add</i>	43.56	
	<i>For Fuse, Add</i>	45.26	
	<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
	<i>For 480 Volt, Add</i>	67.90	
	<i>For Multi-Level, Add</i>	98.07	
	<i>For >50 To 100, Deduct</i>	-72.08	
	<i>For >100 To 250, Deduct</i>	-108.12	
	<i>For >250 To 500, Deduct</i>	-172.68	
	<i>For >500 To 1000, Deduct</i>	-237.23	
	<i>For >1000, Deduct</i>	-301.79	



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0012	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,654.66	157.97
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	44.32	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-82.73	
			<i>For >100 To 250, Deduct</i>	-124.10	
			<i>For >250 To 500, Deduct</i>	-198.93	
			<i>For >500 To 1000, Deduct</i>	-273.77	
			<i>For >1000, Deduct</i>	-348.60	
26 56 19 00-0013	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,867.75	165.48
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	45.07	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For >50 To 100, Deduct</i>	-93.39	
			<i>For >100 To 250, Deduct</i>	-140.08	
			<i>For >250 To 500, Deduct</i>	-225.19	
			<i>For >500 To 1000, Deduct</i>	-310.31	
			<i>For >1000, Deduct</i>	-395.42	
26 56 19 00-0014			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) <small>(26 56 19 00-0006)</small>		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0015	EA		25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	508.26	127.87
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-25.41	
			<i>For >100 To 250, Deduct</i>	-38.12	
			<i>For >250 To 500, Deduct</i>	-57.14	
			<i>For >500 To 1000, Deduct</i>	-76.16	
			<i>For >1000, Deduct</i>	-95.18	
26 56 19 00-0016	EA		42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	582.21	135.40
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Multi-Level, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-29.11	
			<i>For >100 To 250, Deduct</i>	-43.67	
			<i>For >250 To 500, Deduct</i>	-66.01	
			<i>For >500 To 1000, Deduct</i>	-88.35	
			<i>For >1000, Deduct</i>	-110.69	
26 56 19 00-0017			Open Face LED Wall Pack <small>(26 56 19 00-0001)</small>		
			Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0018	EA		3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS)	718.46	136.83
			<i>For >50 To 100, Deduct</i>	-35.92	
			<i>For >100 To 250, Deduct</i>	-53.88	
			<i>For >250 To 500, Deduct</i>	-79.55	
			<i>For >500 To 1000, Deduct</i>	-105.21	
			<i>For >1000, Deduct</i>	-130.87	
26 56 19 00-0019	EA		5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS)	764.02	136.83
			<i>For >50 To 100, Deduct</i>	-38.20	
			<i>For >100 To 250, Deduct</i>	-57.30	
			<i>For >250 To 500, Deduct</i>	-85.24	
			<i>For >500 To 1000, Deduct</i>	-113.18	
			<i>For >1000, Deduct</i>	-141.12	
26 56 19 00-0020	EA		7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS)	787.89	136.83
			<i>For >50 To 100, Deduct</i>	-39.39	
			<i>For >100 To 250, Deduct</i>	-59.09	
			<i>For >250 To 500, Deduct</i>	-88.22	
			<i>For >500 To 1000, Deduct</i>	-117.36	
			<i>For >1000, Deduct</i>	-146.49	
26 56 19 00-0021	EA		11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS)	807.24	136.83
			<i>For >50 To 100, Deduct</i>	-40.36	
			<i>For >100 To 250, Deduct</i>	-60.54	
			<i>For >250 To 500, Deduct</i>	-90.64	
			<i>For >500 To 1000, Deduct</i>	-120.74	
			<i>For >1000, Deduct</i>	-150.84	
26 56 19 00-0022	EA		16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS)	952.40	136.83
			<i>For >50 To 100, Deduct</i>	-47.62	
			<i>For >100 To 250, Deduct</i>	-71.43	
			<i>For >250 To 500, Deduct</i>	-108.79	
			<i>For >500 To 1000, Deduct</i>	-146.15	
			<i>For >1000, Deduct</i>	-183.50	

26 56 19 00-0023 Wall Pack Accessories (26 56 19 00-0001)

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0024	EA		Photocell For Wall Pack.....	131.04	34.21
26 56 19 00-0025	EA		Wire Guard For Mini And Small Wall Pack	144.13	34.21
26 56 19 00-0026	EA		Wire Guard For Medium And Large Wall Pack	198.89	34.21
26 56 19 00-0027	EA		Clear Polycarbonate Vandal Guard For Wall Packs	277.90	34.21
26 56 19 00-0028	EA		Full Cutoff Visor For Wall Pack.....	140.57	34.21
26 56 19 00-0029			LED, Roadway Lighting <small>(26 56 19)</small>		
26 56 19 00-0030			LED Roadway Lighting (Philips Lumec) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0031			Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) <small>(26 56 19 00-0030)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0032	EA		49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,390.65	180.91
			<i>For >50 To 100, Deduct</i>	-69.53	
			<i>For >100 To 250, Deduct</i>	-104.30	
			<i>For >250 To 500, Deduct</i>	-164.79	
			<i>For >500 To 1000, Deduct</i>	-225.27	
			<i>For >1000, Deduct</i>	-285.76	
26 56 19 00-0033	EA		98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,127.04	185.79
			<i>For >50 To 100, Deduct</i>	-106.35	
			<i>For >100 To 250, Deduct</i>	-159.53	
			<i>For >250 To 500, Deduct</i>	-256.59	
			<i>For >500 To 1000, Deduct</i>	-353.65	
			<i>For >1000, Deduct</i>	-450.71	
26 56 19 00-0034			Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) <small>(26 56 19 00-0030)</small>		
			Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0035	EA		48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,035.02	180.91
			<i>For >50 To 100, Deduct</i>	-51.75	
			<i>For >100 To 250, Deduct</i>	-77.63	
			<i>For >250 To 500, Deduct</i>	-120.33	
			<i>For >500 To 1000, Deduct</i>	-163.04	
			<i>For >1000, Deduct</i>	-205.74	
26 56 19 00-0036	EA		48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,035.02	180.91
			<i>For >50 To 100, Deduct</i>	-51.75	
			<i>For >100 To 250, Deduct</i>	-77.63	
			<i>For >250 To 500, Deduct</i>	-120.33	
			<i>For >500 To 1000, Deduct</i>	-163.04	
			<i>For >1000, Deduct</i>	-205.74	
26 56 19 00-0037	EA		48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,035.02	180.91
			<i>For >50 To 100, Deduct</i>	-51.75	
			<i>For >100 To 250, Deduct</i>	-77.63	
			<i>For >250 To 500, Deduct</i>	-120.33	
			<i>For >500 To 1000, Deduct</i>	-163.04	
			<i>For >1000, Deduct</i>	-205.74	
26 56 19 00-0038			LED Roadway Lighting (Lithonia) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0039			Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) <small>(26 56 19 00-0038)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0040	EA		30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	1,978.77	171.13
			<i>For >50 To 100, Deduct</i>	-98.94	
			<i>For >100 To 250, Deduct</i>	-148.41	
			<i>For >250 To 500, Deduct</i>	-238.79	
			<i>For >500 To 1000, Deduct</i>	-329.17	
			<i>For >1000, Deduct</i>	-419.55	
26 56 19 00-0041	EA		60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,223.06	176.02
			<i>For >50 To 100, Deduct</i>	-161.15	
			<i>For >100 To 250, Deduct</i>	-241.73	
			<i>For >250 To 500, Deduct</i>	-394.08	
			<i>For >500 To 1000, Deduct</i>	-546.43	
			<i>For >1000, Deduct</i>	-698.79	
26 56 19 00-0042			LED Roadway Lighting (CREE® BetaLED®) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0043			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) <small>(26 56 19 00-0042)</small>		
			Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		



Electrical	26	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0044	EA		20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	770.01	166.24
			<i>For >50 To 100, Deduct</i>	-38.50	
			<i>For >100 To 250, Deduct</i>	-57.75	
			<i>For >250 To 500, Deduct</i>	-87.94	
			<i>For >500 To 1000, Deduct</i>	-118.13	
			<i>For >1000, Deduct</i>	-148.32	
26 56 19 00-0045	EA		30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	854.00	171.13
			<i>For >50 To 100, Deduct</i>	-42.70	
			<i>For >100 To 250, Deduct</i>	-64.05	
			<i>For >250 To 500, Deduct</i>	-98.19	
			<i>For >500 To 1000, Deduct</i>	-132.34	
			<i>For >1000, Deduct</i>	-166.48	
26 56 19 00-0046	EA		40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	954.60	176.02
			<i>For >50 To 100, Deduct</i>	-47.73	
			<i>For >100 To 250, Deduct</i>	-71.60	
			<i>For >250 To 500, Deduct</i>	-110.52	
			<i>For >500 To 1000, Deduct</i>	-149.45	
			<i>For >1000, Deduct</i>	-188.38	
26 56 19 00-0047	EA		50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,039.86	180.91
			<i>For >50 To 100, Deduct</i>	-51.99	
			<i>For >100 To 250, Deduct</i>	-77.99	
			<i>For >250 To 500, Deduct</i>	-120.94	
			<i>For >500 To 1000, Deduct</i>	-163.88	
			<i>For >1000, Deduct</i>	-206.83	
26 56 19 00-0048	EA		60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,125.12	185.79
			<i>For >50 To 100, Deduct</i>	-56.26	
			<i>For >100 To 250, Deduct</i>	-84.38	
			<i>For >250 To 500, Deduct</i>	-131.35	
			<i>For >500 To 1000, Deduct</i>	-178.32	
			<i>For >1000, Deduct</i>	-225.28	
26 56 19 00-0049	EA		70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,322.96	190.69
			<i>For >50 To 100, Deduct</i>	-66.15	
			<i>For >100 To 250, Deduct</i>	-99.22	
			<i>For >250 To 500, Deduct</i>	-155.84	
			<i>For >500 To 1000, Deduct</i>	-212.45	
			<i>For >1000, Deduct</i>	-269.06	
26 56 19 00-0050	EA		80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,408.21	195.58
			<i>For >50 To 100, Deduct</i>	-70.41	
			<i>For >100 To 250, Deduct</i>	-105.62	
			<i>For >250 To 500, Deduct</i>	-166.25	
			<i>For >500 To 1000, Deduct</i>	-226.88	
			<i>For >1000, Deduct</i>	-287.51	
26 56 19 00-0051	EA		90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,492.19	200.47
			<i>For >50 To 100, Deduct</i>	-74.61	
			<i>For >100 To 250, Deduct</i>	-111.91	
			<i>For >250 To 500, Deduct</i>	-176.50	
			<i>For >500 To 1000, Deduct</i>	-241.09	
			<i>For >1000, Deduct</i>	-305.67	
26 56 19 00-0052	EA		100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,652.94	205.36
			<i>For >50 To 100, Deduct</i>	-82.65	
			<i>For >100 To 250, Deduct</i>	-123.97	
			<i>For >250 To 500, Deduct</i>	-196.35	
			<i>For >500 To 1000, Deduct</i>	-268.73	
			<i>For >1000, Deduct</i>	-341.11	
26 56 19 00-0053	EA		110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,738.20	210.25
			<i>For >50 To 100, Deduct</i>	-86.91	
			<i>For >100 To 250, Deduct</i>	-130.37	
			<i>For >250 To 500, Deduct</i>	-206.76	
			<i>For >500 To 1000, Deduct</i>	-283.16	
			<i>For >1000, Deduct</i>	-359.56	
26 56 19 00-0054	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY)	1,823.45	215.14
			<i>For >50 To 100, Deduct</i>	-91.17	
			<i>For >100 To 250, Deduct</i>	-136.76	
			<i>For >250 To 500, Deduct</i>	-217.17	
			<i>For >500 To 1000, Deduct</i>	-297.59	
			<i>For >1000, Deduct</i>	-378.01	

26 56 19 00-0055 Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0042)

Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0056 EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,421.55	176.02
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-71.08	
For >100 To 250, Deduct	-106.62	
For >250 To 500, Deduct	-168.89	
For >500 To 1000, Deduct	-231.17	
For >1000, Deduct	-293.45	
26 56 19 00-0057 EA 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,629.17	185.79
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-81.46	
For >100 To 250, Deduct	-122.19	
For >250 To 500, Deduct	-194.36	
For >500 To 1000, Deduct	-266.52	
For >1000, Deduct	-338.69	
26 56 19 00-0058 EA 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,836.78	195.58
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-91.84	
For >100 To 250, Deduct	-137.76	
For >250 To 500, Deduct	-219.82	
For >500 To 1000, Deduct	-301.88	
For >1000, Deduct	-383.94	
26 56 19 00-0059 EA 100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,044.41	205.36
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-102.22	
For >100 To 250, Deduct	-153.33	
For >250 To 500, Deduct	-245.28	
For >500 To 1000, Deduct	-337.24	
For >1000, Deduct	-429.19	
26 56 19 00-0060 EA 120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,651.17	215.14
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-132.56	
For >100 To 250, Deduct	-198.84	
For >250 To 500, Deduct	-320.64	
For >500 To 1000, Deduct	-442.44	
For >1000, Deduct	-564.24	
26 56 19 00-0061 EA 140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,858.79	224.91
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-142.94	
For >100 To 250, Deduct	-214.41	
For >250 To 500, Deduct	-346.10	
For >500 To 1000, Deduct	-477.80	
For >1000, Deduct	-609.49	
26 56 19 00-0062 EA 160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,066.40	234.69
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-153.32	
For >100 To 250, Deduct	-229.98	
For >250 To 500, Deduct	-371.57	
For >500 To 1000, Deduct	-513.15	
For >1000, Deduct	-654.74	
26 56 19 00-0063 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0042)</small>		
Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0064 EA 4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	667.32	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Backlight Control Shield, Add	31.86	
For Field Adjustable Output, Add	22.64	
For Bird Spikes, Add	46.12	
For Field Adjustable Output And Utility Label, Add	30.18	
For Fuse, Add	45.26	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-33.37	
For >100 To 250, Deduct	-50.05	
For >250 To 500, Deduct	-74.61	
For >500 To 1000, Deduct	-99.18	
For >1000, Deduct	-123.74	



Electrical	26
Lighting	26 50
Exterior Lighting	26 56

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0065 EA 5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A)	667.32	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Backlight Control Shield, Add	31.86	
For Field Adjustable Output, Add	22.64	
For Bird Spikes, Add	46.12	
For Field Adjustable Output And Utility Label, Add	30.18	
For Fuse, Add	45.26	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-33.37	
For >100 To 250, Deduct	-50.05	
For >250 To 500, Deduct	-74.61	
For >500 To 1000, Deduct	-99.18	
For >1000, Deduct	-123.74	
26 56 19 00-0066 EA 8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	724.35	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Backlight Control Shield, Add	31.86	
For Field Adjustable Output, Add	22.64	
For Bird Spikes, Add	46.12	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 480 Volt, Add	67.90	
For >50 To 100, Deduct	-36.22	
For >100 To 250, Deduct	-54.33	
For >250 To 500, Deduct	-81.74	
For >500 To 1000, Deduct	-109.16	
For >1000, Deduct	-136.58	
26 56 19 00-0067 EA 8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E)	724.35	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Backlight Control Shield, Add	31.86	
For Field Adjustable Output, Add	22.64	
For Bird Spikes, Add	46.12	
For Field Adjustable Output And Utility Label, Add	30.18	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For 480 Volt, Add	67.90	
For >50 To 100, Deduct	-36.22	
For >100 To 250, Deduct	-54.33	
For >250 To 500, Deduct	-81.74	
For >500 To 1000, Deduct	-109.16	
For >1000, Deduct	-136.58	
26 56 19 00-0068 EA 9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	825.73	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	42.94	
For Field Adjustable Output And Utility Label, Add	30.18	
For Fuse, Add	45.26	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For Bird Spikes, Add	71.47	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-41.29	
For >100 To 250, Deduct	-61.93	
For >250 To 500, Deduct	-94.42	
For >500 To 1000, Deduct	-126.90	
For >1000, Deduct	-159.39	
26 56 19 00-0069 EA 10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B)	825.73	176.02
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	15.08	
For Field Adjustable Output, Add	22.64	
For Backlight Control Shield, Add	42.94	
For Field Adjustable Output And Utility Label, Add	30.18	
For Fuse, Add	45.26	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	45.26	
For Bird Spikes, Add	71.47	
For 480 Volt, Add	67.90	
For Multi-Level, Add	98.07	
For >50 To 100, Deduct	-41.29	
For >100 To 250, Deduct	-61.93	
For >250 To 500, Deduct	-94.42	
For >500 To 1000, Deduct	-126.90	
For >1000, Deduct	-159.39	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0070	EA	13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	920.80	176.02
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	42.94	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	71.47	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-46.04	
			<i>For >100 To 250, Deduct</i>	-69.06	
			<i>For >250 To 500, Deduct</i>	-106.30	
			<i>For >500 To 1000, Deduct</i>	-143.54	
			<i>For >1000, Deduct</i>	-180.78	
26 56	19 00-0071	EA	14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	920.80	176.02
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	42.94	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	71.47	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For >50 To 100, Deduct</i>	-46.04	
			<i>For >100 To 250, Deduct</i>	-69.06	
			<i>For >250 To 500, Deduct</i>	-106.30	
			<i>For >500 To 1000, Deduct</i>	-143.54	
			<i>For >1000, Deduct</i>	-180.78	
26 56	19 00-0072	EA	2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	565.92	176.02
			<i>For Utility Label, Add</i>	7.54	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-28.30	
			<i>For >100 To 250, Deduct</i>	-42.44	
			<i>For >250 To 500, Deduct</i>	-61.94	
			<i>For >500 To 1000, Deduct</i>	-81.43	
			<i>For >1000, Deduct</i>	-100.93	
26 56	19 00-0073	EA	2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-G).....	565.92	176.02
			<i>For Utility Label, Add</i>	7.54	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-28.30	
			<i>For >100 To 250, Deduct</i>	-42.44	
			<i>For >250 To 500, Deduct</i>	-61.94	
			<i>For >500 To 1000, Deduct</i>	-81.43	
			<i>For >1000, Deduct</i>	-100.93	
26 56	19 00-0074	EA	3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C).....	589.69	176.02
			<i>For Utility Label, Add</i>	7.54	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-29.48	
			<i>For >100 To 250, Deduct</i>	-44.23	
			<i>For >250 To 500, Deduct</i>	-64.91	
			<i>For >500 To 1000, Deduct</i>	-85.59	
			<i>For >1000, Deduct</i>	-106.28	
26 56	19 00-0075	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-C).....	589.69	176.02
			<i>For Utility Label, Add</i>	7.54	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.64	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-29.48	
			<i>For >100 To 250, Deduct</i>	-44.23	
			<i>For >250 To 500, Deduct</i>	-64.91	
			<i>For >500 To 1000, Deduct</i>	-85.59	
			<i>For >1000, Deduct</i>	-106.28	
26 56	19 00-0076	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	597.61	176.02
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-29.88	
			<i>For >100 To 250, Deduct</i>	-44.82	
			<i>For >250 To 500, Deduct</i>	-65.90	
			<i>For >500 To 1000, Deduct</i>	-86.98	
			<i>For >1000, Deduct</i>	-108.06	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0077	EA		4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A)	597.61	176.02
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Field Adjustable Output And Utility Label, Add</i>	30.18	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For >50 To 100, Deduct</i>	-29.88	
			<i>For >100 To 250, Deduct</i>	-44.82	
			<i>For >250 To 500, Deduct</i>	-65.90	
			<i>For >500 To 1000, Deduct</i>	-86.98	
			<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0078			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
			<small>(26 56 19 00-0042)</small>		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0079	EA		3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N)	581.77	176.02
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	55.32	
			<i>For Bird Spikes, Add</i>	71.92	
			<i>For >50 To 100, Deduct</i>	-29.09	
			<i>For >100 To 250, Deduct</i>	-43.63	
			<i>For >250 To 500, Deduct</i>	-63.92	
			<i>For >500 To 1000, Deduct</i>	-84.21	
			<i>For >1000, Deduct</i>	-104.50	
26 56 19 00-0080	EA		3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N)	581.77	176.02
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	55.32	
			<i>For Bird Spikes, Add</i>	71.92	
			<i>For >50 To 100, Deduct</i>	-29.09	
			<i>For >100 To 250, Deduct</i>	-43.63	
			<i>For >250 To 500, Deduct</i>	-63.92	
			<i>For >500 To 1000, Deduct</i>	-84.21	
			<i>For >1000, Deduct</i>	-104.50	
26 56 19 00-0081	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N)	597.61	176.02
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	55.32	
			<i>For Bird Spikes, Add</i>	71.92	
			<i>For >50 To 100, Deduct</i>	-29.88	
			<i>For >100 To 250, Deduct</i>	-44.82	
			<i>For >250 To 500, Deduct</i>	-65.90	
			<i>For >500 To 1000, Deduct</i>	-86.98	
			<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0082	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N)	597.61	176.02
			<i>For Field Adjustable Output, Add</i>	22.64	
			<i>For Backlight Control Shield, Add</i>	55.32	
			<i>For Bird Spikes, Add</i>	71.92	
			<i>For >50 To 100, Deduct</i>	-29.88	
			<i>For >100 To 250, Deduct</i>	-44.82	
			<i>For >250 To 500, Deduct</i>	-65.90	
			<i>For >500 To 1000, Deduct</i>	-86.98	
			<i>For >1000, Deduct</i>	-108.06	
26 56 19 00-0083			LED Roadway Lighting (Cooper Lighting) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0084			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) <small>(26 56 19 00-0083)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0085	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA)	914.80	176.02
			<i>For >50 To 100, Deduct</i>	-45.74	
			<i>For >100 To 250, Deduct</i>	-68.61	
			<i>For >250 To 500, Deduct</i>	-105.55	
			<i>For >500 To 1000, Deduct</i>	-142.49	
			<i>For >1000, Deduct</i>	-179.43	
26 56 19 00-0086	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA)	1,220.36	195.58
			<i>For >50 To 100, Deduct</i>	-61.02	
			<i>For >100 To 250, Deduct</i>	-91.53	
			<i>For >250 To 500, Deduct</i>	-142.77	
			<i>For >500 To 1000, Deduct</i>	-194.01	
			<i>For >1000, Deduct</i>	-245.24	
26 56 19 00-0087	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA)	1,315.90	224.91
			<i>For >50 To 100, Deduct</i>	-65.80	
			<i>For >100 To 250, Deduct</i>	-98.69	
			<i>For >250 To 500, Deduct</i>	-153.24	
			<i>For >500 To 1000, Deduct</i>	-207.79	
			<i>For >1000, Deduct</i>	-262.34	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0088 EA 4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA)	1,916.91	244.47
For >50 To 100, Deduct	-95.85	
For >100 To 250, Deduct	-143.77	
For >250 To 500, Deduct	-227.39	
For >500 To 1000, Deduct	-311.01	
For >1000, Deduct	-394.63	
26 56 19 00-0089 EA 6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA)	2,494.88	278.32
For >50 To 100, Deduct	-124.74	
For >100 To 250, Deduct	-187.12	
For >250 To 500, Deduct	-297.94	
For >500 To 1000, Deduct	-408.77	
For >1000, Deduct	-519.60	
26 56 19 00-0090 LED Roadway Lighting (PlanLED) (26 56 19 00-0029)		
26 56 19 00-0091 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0090)		
Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0092 EA 8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W)	1,081.83	171.13
For >50 To 100, Deduct	-54.09	
For >100 To 250, Deduct	-81.14	
For >250 To 500, Deduct	-126.67	
For >500 To 1000, Deduct	-172.21	
For >1000, Deduct	-217.74	
26 56 19 00-0093 EA 11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W)	1,170.78	173.01
For >50 To 100, Deduct	-58.54	
For >100 To 250, Deduct	-87.81	
For >250 To 500, Deduct	-137.70	
For >500 To 1000, Deduct	-187.59	
For >1000, Deduct	-237.47	
26 56 19 00-0094 EA 15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W)	1,241.55	176.02
For >50 To 100, Deduct	-62.08	
For >100 To 250, Deduct	-93.12	
For >250 To 500, Deduct	-146.39	
For >500 To 1000, Deduct	-199.67	
For >1000, Deduct	-252.95	
26 56 19 00-0095 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0090)		
Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0096 EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	737.85	166.99
For >50 To 100, Deduct	-36.89	
For >100 To 250, Deduct	-55.34	
For >250 To 500, Deduct	-83.88	
For >500 To 1000, Deduct	-112.42	
For >1000, Deduct	-140.97	
26 56 19 00-0097 EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	786.46	170.00
For >50 To 100, Deduct	-39.32	
For >100 To 250, Deduct	-58.98	
For >250 To 500, Deduct	-89.81	
For >500 To 1000, Deduct	-120.63	
For >1000, Deduct	-151.45	
26 56 19 00-0098 EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	862.35	173.01
For >50 To 100, Deduct	-43.12	
For >100 To 250, Deduct	-64.68	
For >250 To 500, Deduct	-99.14	
For >500 To 1000, Deduct	-133.61	
For >1000, Deduct	-168.08	
26 56 19 00-0099 Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0090)		
Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0100 EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	911.76	173.01
For 0 To 10 Volt Dimming, Add	72.99	
For 480 Volt, Add	72.99	
For >50 To 100, Deduct	-45.59	
For >100 To 250, Deduct	-68.38	
For >250 To 500, Deduct	-105.32	
For >500 To 1000, Deduct	-142.26	
For >1000, Deduct	-179.19	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0101	EA		16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,003.39 72.99 21.55 -50.17 -75.25 -116.70 -158.14 -199.58	174.52
26 56 19 00-0102	EA		19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150) <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,074.56 72.99 -7.74 -53.73 -80.59 -125.52 -170.45 -215.37	176.02
26 56 19 00-0103			LED Roadway Lighting (General Electric) <small>(26 56 19 00-0029)</small>		
26 56 19 00-0104			Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) <small>(26 56 19 00-0103)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0105	EA		2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	581.41 20.00 -29.07 -43.61 -64.36 -85.12 -105.88	166.24
26 56 19 00-0106	EA		3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	585.92 20.00 -29.30 -43.94 -64.82 -85.69 -106.56	168.50
26 56 19 00-0107	EA		4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	608.42 20.00 -30.42 -45.63 -67.50 -89.36 -111.22	171.13
26 56 19 00-0108	EA		5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	630.96 20.00 -31.55 -47.32 -70.22 -93.12 -116.01	173.01
26 56 19 00-0109	EA		7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	690.14 20.00 -34.51 -51.76 -77.43 -103.10 -128.77	176.77
26 56 19 00-0110	EA		8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	721.33 20.00 -36.07 -54.10 -81.25 -108.41 -135.56	178.28
26 56 19 00-0111	EA		9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY) <i>For LightGrid™ Wireless Outdoor Controller, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	779.84 20.00 -38.99 -58.49 -88.43 -118.38 -148.33	180.91

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0112 EA 13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY)	903.90	185.79
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-45.20	
For >100 To 250, Deduct	-67.79	
For >250 To 500, Deduct	-103.70	
For >500 To 1000, Deduct	-139.60	
For >1000, Deduct	-175.51	
26 56 19 00-0113 EA 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY)	1,048.70	195.58
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-52.44	
For >100 To 250, Deduct	-78.65	
For >250 To 500, Deduct	-121.31	
For >500 To 1000, Deduct	-163.97	
For >1000, Deduct	-206.62	
26 56 19 00-0114 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0029)		
26 56 19 00-0115 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0114)		
Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0116 EA 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70)	1,050.45	171.13
For >50 To 100, Deduct	-52.52	
For >100 To 250, Deduct	-78.78	
For >250 To 500, Deduct	-122.75	
For >500 To 1000, Deduct	-166.72	
For >1000, Deduct	-210.68	
26 56 19 00-0117 EA 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70)	1,287.32	176.02
For >50 To 100, Deduct	-64.37	
For >100 To 250, Deduct	-96.55	
For >250 To 500, Deduct	-152.11	
For >500 To 1000, Deduct	-207.68	
For >1000, Deduct	-263.24	
26 56 19 00-0118 EA 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70)	1,764.86	180.91
For >50 To 100, Deduct	-88.24	
For >100 To 250, Deduct	-132.36	
For >250 To 500, Deduct	-211.56	
For >500 To 1000, Deduct	-290.76	
For >1000, Deduct	-369.96	
26 56 19 00-0119 EA 13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70)	2,246.78	188.06
For >50 To 100, Deduct	-112.34	
For >100 To 250, Deduct	-168.51	
For >250 To 500, Deduct	-271.44	
For >500 To 1000, Deduct	-374.38	
For >1000, Deduct	-477.32	
26 56 19 00-0120 EA 17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70)	2,716.98	193.32
For >50 To 100, Deduct	-135.85	
For >100 To 250, Deduct	-203.77	
For >250 To 500, Deduct	-329.96	
For >500 To 1000, Deduct	-456.14	
For >1000, Deduct	-582.32	
26 56 19 00-0121 LED Roadway Lighting (Leotek) (26 56 19 00-0029)		
26 56 19 00-0122 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0121)		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0123 EA Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL)	595.43	171.13
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-29.77	
For >100 To 250, Deduct	-44.66	
For >250 To 500, Deduct	-65.87	
For >500 To 1000, Deduct	-87.09	
For >1000, Deduct	-108.30	
26 56 19 00-0124 EA Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL)	607.40	173.01
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-30.37	
For >100 To 250, Deduct	-45.56	
For >250 To 500, Deduct	-67.27	
For >500 To 1000, Deduct	-88.99	
For >1000, Deduct	-110.71	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0125 EA Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	642.53	174.14
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-32.13	
For >100 To 250, Deduct	-48.19	
For >250 To 500, Deduct	-71.61	
For >500 To 1000, Deduct	-95.03	
For >1000, Deduct	-118.45	
26 56 19 00-0126 EA Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	734.98	180.91
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-36.75	
For >100 To 250, Deduct	-55.12	
For >250 To 500, Deduct	-82.83	
For >500 To 1000, Deduct	-110.53	
For >1000, Deduct	-138.23	
26 56 19 00-0127 EA Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	846.68	185.79
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-42.33	
For >100 To 250, Deduct	-63.50	
For >250 To 500, Deduct	-96.55	
For >500 To 1000, Deduct	-129.59	
For >1000, Deduct	-162.63	
26 56 19 00-0128 EA Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	852.69	188.81
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-42.63	
For >100 To 250, Deduct	-63.95	
For >250 To 500, Deduct	-97.15	
For >500 To 1000, Deduct	-130.34	
For >1000, Deduct	-163.53	
26 56 19 00-0129 EA Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	1,024.74	191.82
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-51.24	
For >100 To 250, Deduct	-76.86	
For >250 To 500, Deduct	-118.50	
For >500 To 1000, Deduct	-160.15	
For >1000, Deduct	-201.79	
26 56 19 00-0130 EA Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	1,071.72	195.58
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-53.59	
For >100 To 250, Deduct	-80.38	
For >250 To 500, Deduct	-124.19	
For >500 To 1000, Deduct	-167.99	
For >1000, Deduct	-211.80	
26 56 19 00-0131 EA Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	1,186.23	198.59
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-59.31	
For >100 To 250, Deduct	-88.97	
For >250 To 500, Deduct	-138.35	
For >500 To 1000, Deduct	-187.73	
For >1000, Deduct	-237.11	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0132	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	1,266.23	201.60
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-63.31	
			For >100 To 250, Deduct	-94.97	
			For >250 To 500, Deduct	-148.20	
			For >500 To 1000, Deduct	-201.43	
			For >1000, Deduct	-254.66	
26 56	19 00-0133	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL)	676.44	173.01
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-33.82	
			For >100 To 250, Deduct	-50.73	
			For >250 To 500, Deduct	-75.90	
			For >500 To 1000, Deduct	-101.08	
			For >1000, Deduct	-126.25	
26 56	19 00-0134	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL)	736.43	177.53
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-36.82	
			For >100 To 250, Deduct	-55.23	
			For >250 To 500, Deduct	-83.18	
			For >500 To 1000, Deduct	-111.12	
			For >1000, Deduct	-139.07	
26 56	19 00-0135	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL)	789.23	180.91
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-39.46	
			For >100 To 250, Deduct	-59.19	
			For >250 To 500, Deduct	-89.61	
			For >500 To 1000, Deduct	-120.02	
			For >1000, Deduct	-150.44	
26 56	19 00-0136	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL)	835.31	185.05
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-41.77	
			For >100 To 250, Deduct	-62.65	
			For >250 To 500, Deduct	-95.16	
			For >500 To 1000, Deduct	-127.67	
			For >1000, Deduct	-160.19	
26 56	19 00-0137	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL)	881.07	186.55
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-44.05	
			For >100 To 250, Deduct	-66.08	
			For >250 To 500, Deduct	-100.81	
			For >500 To 1000, Deduct	-135.53	
			For >1000, Deduct	-170.26	
26 56	19 00-0138	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL)	1,034.34	193.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	7.83	
			For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
			For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
			For >50 To 100, Deduct	-51.72	
			For >100 To 250, Deduct	-77.58	
			For >250 To 500, Deduct	-119.63	
			For >500 To 1000, Deduct	-161.68	
			For >1000, Deduct	-203.73	



	Electrical	26
	Lighting	26 50
	Exterior Lighting	26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0139 EA Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,158.56	197.08
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-57.93	
<i>For >100 To 250, Deduct</i>	-86.89	
<i>For >250 To 500, Deduct</i>	-134.97	
<i>For >500 To 1000, Deduct</i>	-183.04	
<i>For >1000, Deduct</i>	-231.11	
26 56 19 00-0140 EA Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,225.83	197.83
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-61.29	
<i>For >100 To 250, Deduct</i>	-91.94	
<i>For >250 To 500, Deduct</i>	-143.34	
<i>For >500 To 1000, Deduct</i>	-194.74	
<i>For >1000, Deduct</i>	-246.14	
26 56 19 00-0141 EA Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,291.17	200.09
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-64.56	
<i>For >100 To 250, Deduct</i>	-96.84	
<i>For >250 To 500, Deduct</i>	-151.39	
<i>For >500 To 1000, Deduct</i>	-205.95	
<i>For >1000, Deduct</i>	-260.50	
26 56 19 00-0142 EA Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	727.76	188.81
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-36.39	
<i>For >100 To 250, Deduct</i>	-54.58	
<i>For >250 To 500, Deduct</i>	-81.53	
<i>For >500 To 1000, Deduct</i>	-108.48	
<i>For >1000, Deduct</i>	-135.43	
26 56 19 00-0143 EA Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	780.84	190.69
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-39.04	
<i>For >100 To 250, Deduct</i>	-58.56	
<i>For >250 To 500, Deduct</i>	-88.07	
<i>For >500 To 1000, Deduct</i>	-117.58	
<i>For >1000, Deduct</i>	-147.09	
26 56 19 00-0144 EA Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	573.77	172.64
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-28.69	
<i>For >100 To 250, Deduct</i>	-43.03	
<i>For >250 To 500, Deduct</i>	-63.09	
<i>For >500 To 1000, Deduct</i>	-83.15	
<i>For >1000, Deduct</i>	-103.20	
26 56 19 00-0145 EA Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	583.35	174.14
<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
<i>For Twist Lock Shorting Cap, Add</i>	7.83	
<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	23.48	
<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	42.02	
<i>For >50 To 100, Deduct</i>	-29.17	
<i>For >100 To 250, Deduct</i>	-43.75	
<i>For >250 To 500, Deduct</i>	-64.21	
<i>For >500 To 1000, Deduct</i>	-84.67	
<i>For >1000, Deduct</i>	-105.13	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0146 EA Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	627.93	177.53
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-31.40	
For >100 To 250, Deduct	-47.09	
For >250 To 500, Deduct	-69.62	
For >500 To 1000, Deduct	-92.14	
For >1000, Deduct	-114.66	
26 56 19 00-0147 EA Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	924.47	191.82
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-46.22	
For >100 To 250, Deduct	-69.34	
For >250 To 500, Deduct	-105.97	
For >500 To 1000, Deduct	-142.60	
For >1000, Deduct	-179.23	
26 56 19 00-0148 EA Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,179.80	197.83
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-58.99	
For >100 To 250, Deduct	-88.49	
For >250 To 500, Deduct	-137.58	
For >500 To 1000, Deduct	-186.68	
For >1000, Deduct	-235.78	
26 56 19 00-0149 EA Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,062.94	198.59
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-53.15	
For >100 To 250, Deduct	-79.72	
For >250 To 500, Deduct	-122.94	
For >500 To 1000, Deduct	-166.16	
For >1000, Deduct	-209.37	
26 56 19 00-0150 EA Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	554.79	173.01
For Twist Lock Shorting Cap, Add	7.83	
For ANSI 7-wire Photocontrol Receptacle, Add	23.48	
For Ripley Long-Life Twist Lock Photocontrol, Add	42.02	
For >50 To 100, Deduct	-27.74	
For >100 To 250, Deduct	-41.61	
For >250 To 500, Deduct	-60.70	
For >500 To 1000, Deduct	-79.79	
For >1000, Deduct	-98.88	
26 56 19 00-0151 LED, Area Fixtures ^(26 56 19)		
26 56 19 00-0152 Pole Mount, LED Area Fixtures ^(26 56 19 00-0151)		
26 56 19 00-0153 Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) ^(26 56 19 00-0152)		
Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0154 EA 20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,136.74	127.87
For >50 To 100, Deduct	-106.84	
For >100 To 250, Deduct	-160.26	
For >250 To 500, Deduct	-260.70	
For >500 To 1000, Deduct	-361.14	
For >1000, Deduct	-461.58	
26 56 19 00-0155 EA 40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,302.25	135.40
For >50 To 100, Deduct	-115.11	
For >100 To 250, Deduct	-172.67	
For >250 To 500, Deduct	-281.01	
For >500 To 1000, Deduct	-389.35	
For >1000, Deduct	-497.70	
26 56 19 00-0156 EA 80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,482.82	150.45
For >50 To 100, Deduct	-124.14	
For >100 To 250, Deduct	-186.21	
For >250 To 500, Deduct	-302.83	
For >500 To 1000, Deduct	-419.45	
For >1000, Deduct	-536.07	
26 56 19 00-0157 EA 100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,497.86	157.97
For >50 To 100, Deduct	-124.89	
For >100 To 250, Deduct	-187.34	
For >250 To 500, Deduct	-304.33	
For >500 To 1000, Deduct	-421.33	
For >1000, Deduct	-538.32	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 56 19 00-0158	Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) <small>(26 56 19 00-0152)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0159	EA 40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,053.74 17.91 35.04 86.41 179.10 -52.69 -79.03 -124.95 -170.86 -216.78	135.40
26 56 19 00-0160	EA 60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,256.84 17.91 35.79 86.41 179.10 -62.84 -94.26 -149.96 -205.66 -261.35	142.92
26 56 19 00-0161	EA 80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,535.43 17.91 36.54 86.41 179.10 -76.77 -115.16 -184.41 -253.66 -322.91	150.45
26 56 19 00-0162	EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,738.53 17.91 37.30 86.41 179.10 -86.93 -130.39 -209.42 -288.45 -367.47	157.97
26 56 19 00-0163	EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	1,941.64 17.91 38.05 86.41 179.10 -97.08 -145.62 -234.43 -323.24 -412.05	165.48
26 56 19 00-0164	EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	2,204.87 17.91 38.80 86.41 179.10 -110.24 -165.37 -266.96 -368.55 -470.14	173.01
26 56 19 00-0165	EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	2,407.98 17.91 39.55 86.41 179.10 -120.40 -180.60 -291.97 -403.34 -514.72	180.53

26 56 19 00-0166	Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) <small>(26 56 19 00-0152)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
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26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0167	EA	120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	1,802.79	165.48
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For Bird Spikes, Add</i>	40.32	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For 480 Volt, Add</i>	67.90	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.76	
			<i>For >50 To 100, Deduct</i>	-90.14	
			<i>For >100 To 250, Deduct</i>	-135.21	
			<i>For >250 To 500, Deduct</i>	-217.07	
			<i>For >500 To 1000, Deduct</i>	-298.94	
			<i>For >1000, Deduct</i>	-380.80	
26 56	19 00-0168	EA	240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	2,987.02	203.10
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	15.08	
			<i>For 5,000K Color Temperature, Add</i>	37.72	
			<i>For Fuse, Add</i>	45.26	
			<i>For 0 To 10 Volt Dimming, Add</i>	45.26	
			<i>For Bird Spikes, Add</i>	58.34	
			<i>For Multi-Level, Add</i>	98.07	
			<i>For 1,000mA Driver, Add</i>	126.74	
			<i>For 480 Volt, Add</i>	135.79	
			<i>For >50 To 100, Deduct</i>	-149.35	
			<i>For >100 To 250, Deduct</i>	-224.03	
			<i>For >250 To 500, Deduct</i>	-363.22	
			<i>For >500 To 1000, Deduct</i>	-502.42	
			<i>For >1000, Deduct</i>	-641.61	
26 56	19 00-0169		Wall Mount, LED Area Fixtures <small>(26 56 19 00-0151)</small>		
26 56	19 00-0170		Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) <small>(26 56 19 00-0169)</small> Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56	19 00-0171	EA	20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	979.56	127.87
			<i>For >50 To 100, Deduct</i>	-48.98	
			<i>For >100 To 250, Deduct</i>	-73.47	
			<i>For >250 To 500, Deduct</i>	-116.05	
			<i>For >500 To 1000, Deduct</i>	-158.64	
			<i>For >1000, Deduct</i>	-201.22	
26 56	19 00-0172	EA	30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED).....	1,009.64	142.92
			<i>For >50 To 100, Deduct</i>	-50.48	
			<i>For >100 To 250, Deduct</i>	-75.72	
			<i>For >250 To 500, Deduct</i>	-119.06	
			<i>For >500 To 1000, Deduct</i>	-162.40	
			<i>For >1000, Deduct</i>	-205.73	
26 56	19 00-0173		Surface Mount, LED Parking Structure Fixtures <small>(26 56 19 00-0151)</small>		
26 56	19 00-0174		Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) <small>(26 56 19 00-0173)</small> Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56	19 00-0175	EA	40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	941.16	135.40
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-47.06	
			<i>For >100 To 250, Deduct</i>	-70.59	
			<i>For >250 To 500, Deduct</i>	-110.88	
			<i>For >500 To 1000, Deduct</i>	-151.16	
			<i>For >1000, Deduct</i>	-191.45	
26 56	19 00-0176	EA	60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,144.26	142.92
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-57.21	
			<i>For >100 To 250, Deduct</i>	-85.82	
			<i>For >250 To 500, Deduct</i>	-135.89	
			<i>For >500 To 1000, Deduct</i>	-185.95	
			<i>For >1000, Deduct</i>	-236.02	
26 56	19 00-0177	EA	80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,347.37	150.45
			<i>For Multi-Level Drive Currents, Add</i>	179.10	
			<i>For >50 To 100, Deduct</i>	-67.37	
			<i>For >100 To 250, Deduct</i>	-101.05	
			<i>For >250 To 500, Deduct</i>	-160.90	
			<i>For >500 To 1000, Deduct</i>	-220.75	
			<i>For >1000, Deduct</i>	-280.59	



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0178 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,550.47	157.97
<i>For Multi-Level Drive Currents, Add</i>	179.10	
<i>For >50 To 100, Deduct</i>	-77.52	
<i>For >100 To 250, Deduct</i>	-116.29	
<i>For >250 To 500, Deduct</i>	-185.91	
<i>For >500 To 1000, Deduct</i>	-255.54	
<i>For >1000, Deduct</i>	-325.16	
26 56 19 00-0179 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) <small>(26 56 19 00-0173)</small>		
<small>Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0180 EA 40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	910.46	135.40
<i>For Multi-Level Drive Currents, Add</i>	179.10	
<i>For >50 To 100, Deduct</i>	-45.52	
<i>For >100 To 250, Deduct</i>	-68.28	
<i>For >250 To 500, Deduct</i>	-107.04	
<i>For >500 To 1000, Deduct</i>	-145.79	
<i>For >1000, Deduct</i>	-184.54	
26 56 19 00-0181 EA 60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,000.98	142.92
<i>For Multi-Level Drive Currents, Add</i>	179.10	
<i>For >50 To 100, Deduct</i>	-50.05	
<i>For >100 To 250, Deduct</i>	-75.07	
<i>For >250 To 500, Deduct</i>	-117.98	
<i>For >500 To 1000, Deduct</i>	-160.88	
<i>For >1000, Deduct</i>	-203.78	
26 56 19 00-0182 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) <small>(26 56 19 00-0173)</small>		
<small>Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0183 EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	879.14	135.40
<i>For >50 To 100, Deduct</i>	-43.96	
<i>For >100 To 250, Deduct</i>	-65.94	
<i>For >250 To 500, Deduct</i>	-103.12	
<i>For >500 To 1000, Deduct</i>	-140.31	
<i>For >1000, Deduct</i>	-177.50	
26 56 19 00-0184 Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) <small>(26 56 19 00-0173)</small>		
<small>Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.</small>		
26 56 19 00-0185 EA 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,679.61	142.92
<i>For >50 To 100, Deduct</i>	-83.98	
<i>For >100 To 250, Deduct</i>	-125.97	
<i>For >250 To 500, Deduct</i>	-202.81	
<i>For >500 To 1000, Deduct</i>	-279.64	
<i>For >1000, Deduct</i>	-356.47	
26 56 19 00-0186 EA 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	1,709.70	157.97
<i>For >50 To 100, Deduct</i>	-85.49	
<i>For >100 To 250, Deduct</i>	-128.23	
<i>For >250 To 500, Deduct</i>	-205.81	
<i>For >500 To 1000, Deduct</i>	-283.40	
<i>For >1000, Deduct</i>	-360.99	
26 56 19 00-0187 Surface Mount, LED Canopy Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0188 Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) <small>(26 56 19 00-0187)</small>		
<small>Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0189 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,076.77	135.40
<i>For Multi-Level Drive Currents, Add</i>	179.10	
<i>For >50 To 100, Deduct</i>	-53.84	
<i>For >100 To 250, Deduct</i>	-80.76	
<i>For >250 To 500, Deduct</i>	-127.83	
<i>For >500 To 1000, Deduct</i>	-174.89	
<i>For >1000, Deduct</i>	-221.96	
26 56 19 00-0190 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,279.87	142.92
<i>For Multi-Level Drive Currents, Add</i>	179.10	
<i>For >50 To 100, Deduct</i>	-63.99	
<i>For >100 To 250, Deduct</i>	-95.99	
<i>For >250 To 500, Deduct</i>	-152.84	
<i>For >500 To 1000, Deduct</i>	-209.69	
<i>For >1000, Deduct</i>	-266.53	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0191 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,482.98	150.45
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-74.15	
For >100 To 250, Deduct	-111.22	
For >250 To 500, Deduct	-177.85	
For >500 To 1000, Deduct	-244.48	
For >1000, Deduct	-311.10	
26 56 19 00-0192 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,686.08	157.97
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-84.30	
For >100 To 250, Deduct	-126.46	
For >250 To 500, Deduct	-202.86	
For >500 To 1000, Deduct	-279.27	
For >1000, Deduct	-355.67	
26 56 19 00-0193 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,889.19	165.48
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-94.46	
For >100 To 250, Deduct	-141.69	
For >250 To 500, Deduct	-227.87	
For >500 To 1000, Deduct	-314.06	
For >1000, Deduct	-400.24	
26 56 19 00-0194 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,167.77	173.01
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-108.39	
For >100 To 250, Deduct	-162.58	
For >250 To 500, Deduct	-262.32	
For >500 To 1000, Deduct	-362.06	
For >1000, Deduct	-461.80	
26 56 19 00-0195 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,370.88	180.53
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-118.54	
For >100 To 250, Deduct	-177.82	
For >250 To 500, Deduct	-287.33	
For >500 To 1000, Deduct	-396.85	
For >1000, Deduct	-506.37	
26 56 19 00-0196 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,777.08	195.58
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-138.85	
For >100 To 250, Deduct	-208.28	
For >250 To 500, Deduct	-337.36	
For >500 To 1000, Deduct	-466.43	
For >1000, Deduct	-595.51	
26 56 19 00-0197 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,168.25	203.10
For Multi-Level Drive Currents, Add	179.10	
For >50 To 100, Deduct	-158.41	
For >100 To 250, Deduct	-237.62	
For >250 To 500, Deduct	-385.88	
For >500 To 1000, Deduct	-534.13	
For >1000, Deduct	-682.39	
26 56 19 00-0198 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) <small>(26 56 19 00-0187)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0199 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250).....	783.19	150.45
For >50 To 100, Deduct	-39.16	
For >100 To 250, Deduct	-58.74	
For >250 To 500, Deduct	-90.38	
For >500 To 1000, Deduct	-122.01	
For >1000, Deduct	-153.65	
26 56 19 00-0200 Recessed Mount, LED Soffit Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0201 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) <small>(26 56 19 00-0200)</small>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0202 EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	925.81	135.40
For >50 To 100, Deduct	-46.29	
For >100 To 250, Deduct	-69.44	
For >250 To 500, Deduct	-108.96	
For >500 To 1000, Deduct	-148.48	
For >1000, Deduct	-188.00	
26 56 19 00-0203 EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,016.33	142.92
For >50 To 100, Deduct	-50.82	
For >100 To 250, Deduct	-76.22	
For >250 To 500, Deduct	-119.90	
For >500 To 1000, Deduct	-163.57	
For >1000, Deduct	-207.24	
26 56 19 00-0204 Surface Mount, LED Area Fixtures <small>(26 56 19 00-0151)</small>		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0205 Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0204)</small>		
Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0206 EA 50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	652.17	135.40
For >50 To 100, Deduct	-32.61	
For >100 To 250, Deduct	-48.91	
For >250 To 500, Deduct	-74.75	
For >500 To 1000, Deduct	-100.59	
For >1000, Deduct	-126.43	
26 56 19 00-0207 EA 50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,240.45	135.40
For >50 To 100, Deduct	-62.02	
For >100 To 250, Deduct	-93.03	
For >250 To 500, Deduct	-148.29	
For >500 To 1000, Deduct	-203.54	
For >1000, Deduct	-258.79	
26 56 19 00-0208 EA 68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,051.19	150.45
For >50 To 100, Deduct	-52.56	
For >100 To 250, Deduct	-78.84	
For >250 To 500, Deduct	-123.88	
For >500 To 1000, Deduct	-168.91	
For >1000, Deduct	-213.95	
26 56 19 00-0209 EA 68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,282.73	150.45
For >50 To 100, Deduct	-64.14	
For >100 To 250, Deduct	-96.20	
For >250 To 500, Deduct	-152.82	
For >500 To 1000, Deduct	-209.43	
For >1000, Deduct	-266.05	
26 56 19 00-0210 Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0204)</small>		
Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0211 EA 13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	210.74	49.26
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-10.54	
For >100 To 250, Deduct	-15.81	
For >250 To 500, Deduct	-24.29	
For >500 To 1000, Deduct	-32.77	
For >1000, Deduct	-41.26	
26 56 19 00-0212 EA 20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	238.02	49.26
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-11.90	
For >100 To 250, Deduct	-17.85	
For >250 To 500, Deduct	-27.70	
For >500 To 1000, Deduct	-37.55	
For >1000, Deduct	-47.40	
26 56 19 00-0213 EA 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	290.00	49.26
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-14.50	
For >100 To 250, Deduct	-21.75	
For >250 To 500, Deduct	-34.20	
For >500 To 1000, Deduct	-46.65	
For >1000, Deduct	-59.09	
26 56 19 00-0214 Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0151)</small>		
26 56 19 00-0215 Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0214)</small>		
26 56 19 00-0216 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	633.95	57.51
For >50 To 100, Deduct	-31.70	
For >100 To 250, Deduct	-47.55	
For >250 To 500, Deduct	-77.06	
For >500 To 1000, Deduct	-106.57	
For >1000, Deduct	-136.08	
26 56 19 00-0217 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,015.55	52.51
For >50 To 100, Deduct	-50.78	
For >100 To 250, Deduct	-76.17	
For >250 To 500, Deduct	-125.07	
For >500 To 1000, Deduct	-173.97	
For >1000, Deduct	-222.87	
26 56 19 00-0218 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,288.37	43.76
For >50 To 100, Deduct	-64.42	
For >100 To 250, Deduct	-96.63	
For >250 To 500, Deduct	-159.48	
For >500 To 1000, Deduct	-222.34	
For >1000, Deduct	-285.20	
26 56 19 00-0219 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,561.17	35.01
For >50 To 100, Deduct	-78.06	
For >100 To 250, Deduct	-117.09	
For >250 To 500, Deduct	-193.90	
For >500 To 1000, Deduct	-270.70	
For >1000, Deduct	-347.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0220			Post Top, LED Area Fixtures ^(26 56 19 00-0151)		
26 56 19 00-0221			Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) ^(26 56 19 00-0220) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0222	EA		1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	1,816.08	206.86
			For >50 To 100, Deduct	-90.80	
			For >100 To 250, Deduct	-136.21	
			For >250 To 500, Deduct	-216.67	
			For >500 To 1000, Deduct	-297.13	
			For >1000, Deduct	-377.59	
26 56 19 00-0223	EA		3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	1,995.02	206.86
			For >50 To 100, Deduct	-99.75	
			For >100 To 250, Deduct	-149.63	
			For >250 To 500, Deduct	-239.03	
			For >500 To 1000, Deduct	-328.44	
			For >1000, Deduct	-417.85	
26 56 19 00-0224	EA		77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3)	2,136.46	206.86
			For >50 To 100, Deduct	-106.82	
			For >100 To 250, Deduct	-160.23	
			For >250 To 500, Deduct	-256.71	
			For >500 To 1000, Deduct	-353.19	
			For >1000, Deduct	-449.67	
26 56 19 00-0225			Post Top, LED Area Fixtures (General Electric EPAS) ^(26 56 19 00-0220) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0226	EA		3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3)	2,125.01	206.86
			For >50 To 100, Deduct	-106.25	
			For >100 To 250, Deduct	-159.38	
			For >250 To 500, Deduct	-255.28	
			For >500 To 1000, Deduct	-351.19	
			For >1000, Deduct	-447.10	
26 56 19 00-0227	EA		6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,171.04	206.86
			For >50 To 100, Deduct	-108.55	
			For >100 To 250, Deduct	-162.83	
			For >250 To 500, Deduct	-261.04	
			For >500 To 1000, Deduct	-359.25	
			For >1000, Deduct	-457.45	
26 56 19 00-0228			Post Top, LED Area Fixtures (General Electric EPTC) ^(26 56 19 00-0220) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0229	EA		3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3)	1,501.82	206.86
			For >50 To 100, Deduct	-75.09	
			For >100 To 250, Deduct	-112.64	
			For >250 To 500, Deduct	-177.38	
			For >500 To 1000, Deduct	-242.13	
			For >1000, Deduct	-306.88	
26 56 19 00-0230	EA		6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,570.71	206.86
			For >50 To 100, Deduct	-78.54	
			For >100 To 250, Deduct	-117.80	
			For >250 To 500, Deduct	-186.00	
			For >500 To 1000, Deduct	-254.19	
			For >1000, Deduct	-322.38	
26 56 19 00-0231			Post Top, LED Area Fixtures (General Electric EPST) ^(26 56 19 00-0220) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0232	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3)	1,188.70	206.86
			For >50 To 100, Deduct	-59.44	
			For >100 To 250, Deduct	-89.15	
			For >250 To 500, Deduct	-138.24	
			For >500 To 1000, Deduct	-187.34	
			For >1000, Deduct	-236.43	
26 56 19 00-0233	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3)	1,257.59	206.86
			For >50 To 100, Deduct	-62.88	
			For >100 To 250, Deduct	-94.32	
			For >250 To 500, Deduct	-146.86	
			For >500 To 1000, Deduct	-199.39	
			For >1000, Deduct	-251.93	
26 56 19 00-0234			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) ^(26 56 19 00-0220) Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0235	EA		13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	2,363.41 -118.17 -177.26 -285.08 -392.91 -500.74	206.86
26 56 19 00-0236			LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0220) Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 56 19 00-0237	EA		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53)..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	693.04 45.26 -34.65 -51.98 -80.99 -110.00 -139.01	112.83
26 56 19 00-0238			LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0220) Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0372 for disposal of hazardous lamps.		
26 56 19 00-0239	EA		LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) <i>For Backlight Control Shield, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	419.48 31.74 -20.97 -31.46 -50.03 -68.59 -87.16	24.07
26 56 19 00-0240			Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0151)		
26 56 19 00-0241	EA		4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D) <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500 To 1000, Deduct</i> <i>For >1000, Deduct</i>	440.60 -22.03 -33.05 -53.36 -73.67 -93.98	45.75
26 56 21			HID Exterior Lighting (26 56)		
26 56 21 00-0001			High Mast Fixtures (26 56 21)		
26 56 21 00-0002			Metal Halide, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0003	EA		400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,690.47	186.13
26 56 21 00-0004	EA		400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,802.75	186.13
26 56 21 00-0005	EA		750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,796.06	212.64
26 56 21 00-0006	EA		750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,863.43	212.64
26 56 21 00-0007	EA		1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,900.61	265.80
26 56 21 00-0008	EA		1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,967.98	265.80
26 56 21 00-0009			High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)		
26 56 21 00-0010	EA		400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,745.06	186.13
26 56 21 00-0011	EA		400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	1,812.43	186.13
26 56 21 00-0012	EA		600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,101.70	196.77
26 56 21 00-0013	EA		750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,156.65	212.64
26 56 21 00-0014	EA		1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,294.89	265.80
26 56 21 00-0015			HID, Pole Mounted (26 56 21)		
26 56 21 00-0016			Metal Halide, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0017	EA		175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	662.07	303.52
26 56 21 00-0018	EA		250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	739.68	329.46
26 56 21 00-0019	EA		400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	849.75	354.40
26 56 21 00-0020	EA		1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,101.70	415.37
26 56 21 00-0021			High Pressure Sodium, Pole Mounted (26 56 21 00-0015)		
26 56 21 00-0022	EA		100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	787.07	354.40
26 56 21 00-0023	EA		150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	808.09	354.40
26 56 21 00-0024	EA		175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	844.62	354.40
26 56 21 00-0025	EA		250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	935.75	354.40
26 56 21 00-0026	EA		400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,081.62	354.40
26 56 21 00-0027	EA		1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,069.26	354.40

26 Electrical
26 50 Lighting
 26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0028			Low Pressure Sodium, Pole Mounted <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029	EA		135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	667.71	192.80
26 56 21 00-0030	EA		135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	769.65	283.53
26 56 21 00-0031	EA		180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	877.00	283.53
26 56 21 00-0032			Metal Halide, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0033			Metal Halide, Pole Mount, Area Fixtures <small>(26 56 21 00-0032)</small>		
			Note: Includes pulse start ballast.		
26 56 21 00-0034	EA		150 Watt, Metal Halide Area Fixture, Pole Mount	1,022.11	186.72
26 56 21 00-0035	EA		175 Watt, Metal Halide Area Fixture, Pole Mount	1,121.88	205.39
26 56 21 00-0036	EA		250 Watt, Metal Halide Area Fixture, Pole Mount	1,239.29	224.06
26 56 21 00-0037	EA		400 Watt, Metal Halide Area Fixture, Pole Mount	1,321.90	261.41
26 56 21 00-0038			High Pressure Sodium, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0039			Pole Mount, High Pressure Sodium Area Fixtures <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040	EA		100 Watt, High Pressure Sodium Area Fixture, Pole Mount	846.52	149.37
26 56 21 00-0041	EA		150 Watt, High Pressure Sodium Area Fixture, Pole Mount	932.38	186.72
26 56 21 00-0042	EA		250 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,021.21	224.06
26 56 21 00-0043	EA		400 Watt, High Pressure Sodium Area Fixture, Pole Mount	1,088.20	261.41
26 56 21 00-0044			Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21)</small>		
26 56 21 00-0045			Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046	EA		175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	630.34	283.53
26 56 21 00-0047	EA		250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	709.83	318.97
26 56 21 00-0048	EA		400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	833.65	354.40
26 56 21 00-0049	EA		1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,086.74	415.37
26 56 21 00-0050			High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051	EA		70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	591.51	242.42
26 56 21 00-0052	EA		100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	639.21	258.01
26 56 21 00-0053	EA		150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro)	686.45	272.19
26 56 21 00-0054	EA		175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	710.42	283.53
26 56 21 00-0055	EA		250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	784.63	318.97
26 56 21 00-0056	EA		400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	846.31	354.40
26 56 21 00-0057	EA		1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,176.00	415.37
26 56 21 00-0058			Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0059			High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
			Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060	EA		35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	725.57	191.38
26 56 21 00-0061	EA		50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	757.45	212.64
26 56 21 00-0062	EA		70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	815.05	242.42
26 56 21 00-0063	EA		100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	840.02	258.01
26 56 21 00-0064	EA		150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	866.26	272.19
26 56 21 00-0065	EA		175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	907.06	283.53
26 56 21 00-0066	EA		250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	992.57	318.97
26 56 21 00-0067	EA		400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,190.97	354.40
26 56 21 00-0068			Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures <small>(26 56 21 00-0058)</small>		
			Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069	EA		50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	799.39	212.64
26 56 21 00-0070	EA		70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	850.60	242.42
26 56 21 00-0071	EA		100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	881.57	258.01
26 56 21 00-0072	EA		150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	920.55	272.19
26 56 21 00-0073	EA		175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	942.63	283.53
26 56 21 00-0074	EA		250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,029.96	318.97
26 56 21 00-0075	EA		400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,290.40	354.40
26 56 21 00-0076			Wall Packs <small>(26 56 21)</small>		
26 56 21 00-0077			Non Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
			Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		



Electrical	26	26
Lighting	26 50	
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0078 EA 13 Watt Compact Fluorescent, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	352.45	68.41
26 56 21 00-0079 EA 50 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	374.07	68.41
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	374.07	68.41
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Mini Wall Pack	478.93	68.41
26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.</small>		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	648.17	68.41
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	655.95	68.41
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	662.68	68.41
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	650.41	68.41
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	599.95	68.41
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack	572.23	68.41
26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.</small>		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	680.10	68.41
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	687.18	68.41
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	674.93	68.41
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	684.80	68.41
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	684.80	68.41
26 56 21 00-0095 Non Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.</small>		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	666.99	91.13
26 56 21 00-0097 EA 100 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	666.99	91.13
26 56 21 00-0098 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	629.01	91.13
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	643.56	91.13
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	643.56	91.13
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Small Wall Pack	601.46	91.13
26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.</small>		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	689.49	91.13
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	689.49	91.13
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	689.49	91.13
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	667.15	91.13
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	667.15	91.13
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	667.15	91.13
26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.</small>		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	871.25	91.13
26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. Lithonia TWR2.</small>		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	839.89	112.88
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	891.37	112.88
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	952.75	112.88
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	969.64	112.88
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.</small>		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	906.10	112.88
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	963.95	112.88
26 56 21 00-0119 Non Cutoff, Polycarbonate Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.</small>		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	859.74	136.83
26 56 21 00-0121 EA 175 Watt Metal Halide, Non Cutoff, Polycarbonate Lens, Large Wall Pack	798.48	136.83
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	845.57	136.83
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	850.25	136.83
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non Cutoff, Polycarbonate Lens, Large Wall Pack	855.17	136.83
26 56 21 00-0125 Non Cutoff, Borosilicate Glass Lens, Large Wall Packs <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.</small>		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	859.76	136.83
26 56 21 00-0127 EA 250 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	880.20	136.83

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0128 EA 400 Watt Metal Halide, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	941.47	136.83
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	900.63	136.83
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	921.08	136.83
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non Cutoff, Borosilicate Glass Lens, Large Wall Pack	961.88	136.83
26 56 21 00-0132 Semi Cutoff, Induction Wall Packs <small>(26 56 21 00-0076)</small>		
26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) <small>(26 56 21 00-0132)</small>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	1,038.97	127.87
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	1,062.73	135.40
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	1,086.50	142.92
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,206.27	150.45
26 56 21 00-0138 Non Cutoff, Polycarbonate Lens, Small Wall Packs <small>(26 56 21 00-0076)</small>		
26 56 21 00-0139 EA 15 Watt, Exterior, Non-Cutoff Small Wall Pack (Sylvania 60066-SMWLPK1N/015UNV740/NC/BZ/P)	362.13	68.41
26 56 21 00-0140 Induction, Roadway Lighting <small>(26 56 21)</small>		
26 56 21 00-0141 Induction Roadway Lighting (US Lighting Tech) <small>(26 56 21 00-0140)</small>		
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0142 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	688.70	225.67
26 56 21 00-0143 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	750.28	233.19
26 56 21 00-0144 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	780.36	248.23
26 56 21 00-0145 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	810.46	263.28
26 56 21 00-0146 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	932.55	270.80
26 56 21 00-0147 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	951.32	278.32
26 56 21 00-0148 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	649.61	225.67
26 56 21 00-0149 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	716.77	233.19
26 56 21 00-0150 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	746.85	248.23
26 56 21 00-0151 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	776.95	263.28
26 56 21 00-0152 Induction, Area Fixtures <small>(26 56 21)</small>		
26 56 21 00-0153 Post Top, Induction Area Fixtures <small>(26 56 21 00-0152)</small>		
26 56 21 00-0154 Post Top, Induction Area Fixtures (US Lighting Tech) <small>(26 56 21 00-0153)</small>		
Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0155 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	749.76	206.86
26 56 21 00-0156 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0157 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0158 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	803.75	206.86
26 56 21 00-0159 Surface Mount, Induction Parking Structure Fixtures <small>(26 56 21 00-0152)</small>		
26 56 21 00-0160 Surface Mount, Induction Parking Structure Fixtures (Everlast®) <small>(26 56 21 00-0159)</small>		
26 56 21 00-0161 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	677.99	188.06
26 56 21 00-0162 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	717.16	191.82
26 56 21 00-0163 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	728.40	195.58
26 56 21 00-0164 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	739.65	199.34
26 56 21 00-0165 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	750.90	203.10
26 56 21 00-0166 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	765.87	206.86
26 56 21 00-0167 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	782.39	195.58
26 56 21 00-0168 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	793.64	199.34
26 56 21 00-0169 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	804.89	203.10
26 56 21 00-0170 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	835.69	206.86
26 56 21 00-0171 Pole Mount, Induction Area Fixtures <small>(26 56 21 00-0152)</small>		
26 56 21 00-0172 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) <small>(26 56 21 00-0171)</small>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0173 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	1,082.60	127.87
26 56 21 00-0174 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	1,115.09	135.40
26 56 21 00-0175 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	1,147.59	142.92



	Electrical	26	26
	Lighting	26 50	
	Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 26

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 Utilities

33 01 Operation and Maintenance of Utilities ⁽³³⁾

33 01 10 Operation and Maintenance of Water Utilities ^(33 01)

33 01 10 54 **Cleaning of Water Utility Piping** ^(33 01 10)

See CSI section 33 01 30 41-0006 for cleaning of water lines.

33 01 10 58 **Disinfection of Water Utility Piping Systems** ^(33 01 10)

33 01 10 58-0001 **Water Main Disinfection/Sterilization** ^(33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	909.76	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	454.88	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization.....	0.34	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.03	
		For >1,000 To 2,000, Deduct	-0.05	
		For >2,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization.....	0.52	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.05	
		For >1,000 To 2,000, Deduct	-0.08	
		For >2,000 To 5,000, Deduct	-0.10	
		For >5,000, Deduct	-0.13	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization.....	0.69	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.10	
		For >2,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.17	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization.....	0.80	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.08	
		For >1,000 To 2,000, Deduct	-0.12	
		For >2,000 To 5,000, Deduct	-0.16	
		For >5,000, Deduct	-0.20	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization.....	1.05	
		For >250 To 500, Deduct	-0.05	
		For >500 To 1,000, Deduct	-0.11	
		For >1,000 To 2,000, Deduct	-0.16	
		For >2,000 To 5,000, Deduct	-0.21	
		For >5,000, Deduct	-0.26	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.19	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.12	
		For >1,000 To 2,000, Deduct	-0.18	
		For >2,000 To 5,000, Deduct	-0.24	
		For >5,000, Deduct	-0.30	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.36	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.14	
		For >1,000 To 2,000, Deduct	-0.20	
		For >2,000 To 5,000, Deduct	-0.27	
		For >5,000, Deduct	-0.34	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.61	
		For >250 To 500, Deduct	-0.08	
		For >500 To 1,000, Deduct	-0.16	
		For >1,000 To 2,000, Deduct	-0.24	
		For >2,000 To 5,000, Deduct	-0.32	
		For >5,000, Deduct	-0.40	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.07	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000 To 2,000, Deduct	-0.31	
		For >2,000 To 5,000, Deduct	-0.41	
		For >5,000, Deduct	-0.52	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.04	
		For >250 To 500, Deduct	-0.15	
		For >500 To 1,000, Deduct	-0.30	
		For >1,000 To 2,000, Deduct	-0.46	
		For >2,000 To 5,000, Deduct	-0.61	
		For >5,000, Deduct	-0.76	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization.....	4.20	
		For >250 To 500, Deduct	-0.21	
		For >500 To 1,000, Deduct	-0.42	
		For >1,000 To 2,000, Deduct	-0.63	
		For >2,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.05	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		5,042.84
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location.....		2,017.14
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement.....		68.86
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		61.27
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		51.09
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement.....		38.31
	For 3/16" Thickness, Add		0.80
	For 1/4" Thickness, Add		1.60
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement.....		71.40
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		63.51
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		52.99
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement.....		40.03
	For 3/16" Thickness, Add		1.20
	For 1/4" Thickness, Add		2.40
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement.....		73.82
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		65.76
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		54.89
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		41.76
	For 3/16" Thickness, Add		1.60
	For 1/4" Thickness, Add		3.19
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement.....		75.61
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		67.43
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		56.39
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement.....		43.50
	For 3/16" Thickness, Add		2.00
	For 1/4" Thickness, Add		4.00
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement.....		81.59
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		72.88
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		61.14
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement.....		47.21
	For 3/16" Thickness, Add		2.40
	For 1/4" Thickness, Add		4.80
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		87.12
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		78.09
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		65.86
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement.....		52.50
	For 1/4" Thickness, Add		2.67
	For 5/16" Thickness, Add		5.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement	91.03	
<i>For 1/4" Thickness, Add</i>	3.20	
<i>For 5/16" Thickness, Add</i>	6.39	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	81.71	
<i>For 1/4" Thickness, Add</i>	3.20	
<i>For 5/16" Thickness, Add</i>	6.39	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	69.07	
<i>For 1/4" Thickness, Add</i>	3.20	
<i>For 5/16" Thickness, Add</i>	6.39	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	56.40	
<i>For 1/4" Thickness, Add</i>	3.20	
<i>For 5/16" Thickness, Add</i>	6.39	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	96.00	
<i>For 1/4" Thickness, Add</i>	3.73	
<i>For 5/16" Thickness, Add</i>	7.47	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	86.38	
<i>For 1/4" Thickness, Add</i>	3.73	
<i>For 5/16" Thickness, Add</i>	7.47	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	73.12	
<i>For 1/4" Thickness, Add</i>	3.73	
<i>For 5/16" Thickness, Add</i>	7.47	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	61.27	
<i>For 1/4" Thickness, Add</i>	3.73	
<i>For 5/16" Thickness, Add</i>	7.47	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	101.09	
<i>For 1/4" Thickness, Add</i>	4.27	
<i>For 5/16" Thickness, Add</i>	8.53	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	91.06	
<i>For 1/4" Thickness, Add</i>	4.27	
<i>For 5/16" Thickness, Add</i>	8.53	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	77.39	
<i>For 1/4" Thickness, Add</i>	4.27	
<i>For 5/16" Thickness, Add</i>	8.53	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement	66.35	
<i>For 1/4" Thickness, Add</i>	4.27	
<i>For 5/16" Thickness, Add</i>	8.53	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	107.65	
<i>For 1/4" Thickness, Add</i>	5.33	
<i>For 5/16" Thickness, Add</i>	10.67	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	97.05	
<i>For 1/4" Thickness, Add</i>	5.33	
<i>For 5/16" Thickness, Add</i>	10.67	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	82.56	
<i>For 1/4" Thickness, Add</i>	5.33	
<i>For 5/16" Thickness, Add</i>	10.67	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement	71.42	
<i>For 1/4" Thickness, Add</i>	5.33	
<i>For 5/16" Thickness, Add</i>	10.67	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	114.10	
<i>For 1/4" Thickness, Add</i>	6.40	
<i>For 5/16" Thickness, Add</i>	12.80	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	103.03	
<i>For 1/4" Thickness, Add</i>	6.40	
<i>For 5/16" Thickness, Add</i>	12.80	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	87.74	
<i>For 1/4" Thickness, Add</i>	6.40	
<i>For 5/16" Thickness, Add</i>	12.80	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement	76.47	
<i>For 1/4" Thickness, Add</i>	6.40	
<i>For 5/16" Thickness, Add</i>	12.80	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	137.34	
<i>For 3/8" Thickness, Add</i>	16.80	
<i>For 7/16" Thickness, Add</i>	25.20	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	125.26	
<i>For 3/8" Thickness, Add</i>	16.80	
<i>For 7/16" Thickness, Add</i>	25.20	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	108.64	
<i>For 3/8" Thickness, Add</i>	16.80	
<i>For 7/16" Thickness, Add</i>	25.20	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement	97.03	
<i>For 3/8" Thickness, Add</i>	16.80	
<i>For 7/16" Thickness, Add</i>	25.20	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	150.84	
<i>For 3/8" Thickness, Add</i>	19.20	
<i>For 7/16" Thickness, Add</i>	28.79	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	137.93	
<i>For 3/8" Thickness, Add</i>	19.20	
<i>For 7/16" Thickness, Add</i>	28.79	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	120.05	
<i>For 3/8" Thickness, Add</i>	19.20	
<i>For 7/16" Thickness, Add</i>	28.79	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement	108.21	
<i>For 3/8" Thickness, Add</i>	19.20	
<i>For 7/16" Thickness, Add</i>	28.79	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement.....	157.73	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	144.54	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	126.25	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	114.87	
For 3/8" Thickness, Add	21.60	
For 7/16" Thickness, Add	32.39	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement.....	164.63	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	151.21	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	132.57	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement.....	121.53	
For 3/8" Thickness, Add	24.00	
For 7/16" Thickness, Add	36.00	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement.....	171.87	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	158.16	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	139.23	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement.....	129.01	
For 3/8" Thickness, Add	26.40	
For 7/16" Thickness, Add	39.60	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement.....	179.58	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	165.64	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	146.23	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement.....	136.60	
For 3/8" Thickness, Add	28.80	
For 7/16" Thickness, Add	43.20	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	852.08	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,704.14	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,556.22	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert.....	426.03	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	852.08	

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.16	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.22	
For >1,000 To 5,000, Deduct	-0.54	
For >5,000, Deduct	-0.76	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.88	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.29	
For >1,000 To 5,000, Deduct	-0.72	
For >5,000, Deduct	-1.01	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.60	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.36	
For >1,000 To 5,000, Deduct	-0.90	
For >5,000, Deduct	-1.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	4.80	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 5,000, Deduct	-1.20	
For >5,000, Deduct	-1.68	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	6.75	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.68	
For >1,000 To 5,000, Deduct	-1.69	
For >5,000, Deduct	-2.36	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	9.00	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 5,000, Deduct	-2.25	
For >5,000, Deduct	-3.15	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	12.71	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.27	
For >1,000 To 5,000, Deduct	-3.18	
For >5,000, Deduct	-4.45	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	18.00	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.80	
For >1,000 To 5,000, Deduct	-4.50	
For >5,000, Deduct	-6.30	
33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase.....	3.19	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.32	
For >1,000 To 5,000, Deduct	-0.80	
For >5,000, Deduct	-1.12	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.26	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.43	
For >1,000 To 5,000, Deduct	-1.07	
For >5,000, Deduct	-1.49	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	5.33	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.53	
For >1,000 To 5,000, Deduct	-1.33	
For >5,000, Deduct	-1.87	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	7.10	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 5,000, Deduct	-1.78	
For >5,000, Deduct	-2.49	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	9.99	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.00	
For >1,000 To 5,000, Deduct	-2.50	
For >5,000, Deduct	-3.50	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	13.31	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.33	
For >1,000 To 5,000, Deduct	-3.33	
For >5,000, Deduct	-4.66	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	18.80	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.88	
For >1,000 To 5,000, Deduct	-4.70	
For >5,000, Deduct	-6.58	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	26.63	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.66	
For >1,000 To 5,000, Deduct	-6.66	
For >5,000, Deduct	-9.32	
33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.28	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.23	
For >1,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-0.80	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.04	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.30	
For >1,000 To 5,000, Deduct	-0.76	
For >5,000, Deduct	-1.06	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.81	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.38	
For >1,000 To 5,000, Deduct	-0.95	
For >5,000, Deduct	-1.33	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.07	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.51	
For >1,000 To 5,000, Deduct	-1.27	
For >5,000, Deduct	-1.77	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.13	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.71	
For >1,000 To 5,000, Deduct	-1.78	
For >5,000, Deduct	-2.50	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	9.51	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 5,000, Deduct	-2.38	
For >5,000, Deduct	-3.33	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	13.43	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.34	
For >1,000 To 5,000, Deduct	-3.36	
For >5,000, Deduct	-4.70	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	19.02	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.90	
For >1,000 To 5,000, Deduct	-4.76	
For >5,000, Deduct	-6.66	
33 01 30 23 Pipe Bursting (33 01 30)		
33 01 30 23-0001 Pipe Bursting (33 01 30 23)		
Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control.		
33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)		
Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....	379.04	
33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....	444.99	
33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....	556.21	
33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)		
Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0047 for PE piping.		
33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)		
33 01 30 23-0008 EA Initial Set-up Pipe Bursting Equipment.....	7,329.89	
33 01 30 23-0009 EA Re-Set Up/Move Pipe Bursting Equipment.....	3,664.95	
33 01 30 23-0010 EA Set Up/Move Pipe Bursting Equipment For Laterals.....	1,832.47	
33 01 30 23-0011 Pneumatic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0012 LF 4" Diameter, Pneumatic Head Pipe Bursting.....	24.42	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.28	
For >150 To 200, Add	0.83	
For >100 To 150, Add	1.67	
For >75 To 100, Add	2.50	
For >50 To 75, Add	3.33	
For >25 To 50, Add	5.00	
For Up To 25, Add	7.49	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	1.67	
For Bursting Ductile Iron Pipe, Add	4.16	
33 01 30 23-0013 LF 6" Diameter, Pneumatic Head Pipe Bursting.....	28.42	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.59	
For >150 To 200, Add	1.03	
For >100 To 150, Add	2.07	
For >75 To 100, Add	3.10	
For >50 To 75, Add	4.13	
For >25 To 50, Add	6.20	
For Up To 25, Add	9.29	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.07	
For Bursting Ductile Iron Pipe, Add	5.16	
33 01 30 23-0014 LF 8" Diameter, Pneumatic Head Pipe Bursting.....	32.19	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.88	
For >150 To 200, Add	1.22	
For >100 To 150, Add	2.44	
For >75 To 100, Add	3.66	
For >50 To 75, Add	4.88	
For >25 To 50, Add	7.33	
For Up To 25, Add	10.99	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.44	
For Bursting Ductile Iron Pipe, Add	6.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0015 LF 10" Diameter, Pneumatic Head Pipe Bursting	37.03	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.25	
For >150 To 200, Add	1.46	
For >100 To 150, Add	2.93	
For >75 To 100, Add	4.39	
For >50 To 75, Add	5.85	
For >25 To 50, Add	8.78	
For Up To 25, Add	13.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.93	
For Bursting Ductile Iron Pipe, Add	7.32	
33 01 30 23-0016 LF 12" Diameter, Pneumatic Head Pipe Bursting	42.61	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.68	
For >150 To 200, Add	1.74	
For >100 To 150, Add	3.48	
For >75 To 100, Add	5.23	
For >50 To 75, Add	6.97	
For >25 To 50, Add	10.45	
For Up To 25, Add	15.68	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.48	
For Bursting Ductile Iron Pipe, Add	8.71	
33 01 30 23-0017 LF 15" Diameter, Pneumatic Head Pipe Bursting	46.71	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.77	
For >150 To 200, Add	1.80	
For >100 To 150, Add	3.60	
For >75 To 100, Add	5.40	
For >50 To 75, Add	7.19	
For >25 To 50, Add	10.79	
For Up To 25, Add	16.19	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.60	
For Bursting Ductile Iron Pipe, Add	8.99	
33 01 30 23-0018 LF 18" Diameter, Pneumatic Head Pipe Bursting	52.31	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.20	
For >150 To 200, Add	2.08	
For >100 To 150, Add	4.16	
For >75 To 100, Add	6.24	
For >50 To 75, Add	8.31	
For >25 To 50, Add	12.47	
For Up To 25, Add	18.71	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.16	
For Bursting Ductile Iron Pipe, Add	10.39	
33 01 30 23-0019 LF 21"/22" Diameter, Pneumatic Head Pipe Bursting	65.57	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.81	
For >150 To 200, Add	2.47	
For >100 To 150, Add	4.95	
For >75 To 100, Add	7.42	
For >50 To 75, Add	9.89	
For >25 To 50, Add	14.84	
For Up To 25, Add	22.25	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.95	
For Bursting Ductile Iron Pipe, Add	12.36	
33 01 30 23-0020 LF 24" Diameter, Pneumatic Head Pipe Bursting	81.46	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.03	
For >150 To 200, Add	3.27	
For >100 To 150, Add	6.53	
For >75 To 100, Add	9.80	
For >50 To 75, Add	13.07	
For >25 To 50, Add	19.60	
For Up To 25, Add	29.40	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.53	
For Bursting Ductile Iron Pipe, Add	16.34	
33 01 30 23-0021 LF 30" Diameter, Pneumatic Head Pipe Bursting	89.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.22	
For >150 To 200, Add	3.39	
For >100 To 150, Add	6.78	
For >75 To 100, Add	10.17	
For >50 To 75, Add	13.56	
For >25 To 50, Add	20.34	
For Up To 25, Add	30.51	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.78	
For Bursting Ductile Iron Pipe, Add	16.95	
33 01 30 23-0022 LF 36" Diameter, Pneumatic Head Pipe Bursting	115.81	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.26	
For >150 To 200, Add	4.72	
For >100 To 150, Add	9.43	
For >75 To 100, Add	14.15	
For >50 To 75, Add	18.87	
For >25 To 50, Add	28.30	
For Up To 25, Add	42.45	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.43	
For Bursting Ductile Iron Pipe, Add	23.59	

33 01 30 23-0023 Static Head Pipe Bursting (33 01 30 23-0006)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0024 LF 4" Diameter, Static Head Pipe Bursting	32.53	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.91	
For >150 To 200, Add	1.24	
For >100 To 150, Add	2.48	
For >75 To 100, Add	3.71	
For >50 To 75, Add	4.95	
For >25 To 50, Add	7.43	
For Up To 25, Add	11.14	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.48	
For Bursting Ductile Iron Pipe, Add	6.19	
33 01 30 23-0025 LF 6" Diameter, Static Head Pipe Bursting	36.56	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.22	
For >150 To 200, Add	1.44	
For >100 To 150, Add	2.88	
For >75 To 100, Add	4.32	
For >50 To 75, Add	5.76	
For >25 To 50, Add	8.64	
For Up To 25, Add	12.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.88	
For Bursting Ductile Iron Pipe, Add	7.20	
33 01 30 23-0026 LF 8" Diameter, Static Head Pipe Bursting	41.22	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.58	
For >150 To 200, Add	1.67	
For >100 To 150, Add	3.35	
For >75 To 100, Add	5.02	
For >50 To 75, Add	6.69	
For >25 To 50, Add	10.04	
For Up To 25, Add	15.05	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.35	
For Bursting Ductile Iron Pipe, Add	8.36	
33 01 30 23-0027 LF 10" Diameter, Static Head Pipe Bursting	47.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.04	
For >150 To 200, Add	1.97	
For >100 To 150, Add	3.95	
For >75 To 100, Add	5.92	
For >50 To 75, Add	7.90	
For >25 To 50, Add	11.85	
For Up To 25, Add	17.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.95	
For Bursting Ductile Iron Pipe, Add	9.87	
33 01 30 23-0028 LF 12" Diameter, Static Head Pipe Bursting	54.25	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.58	
For >150 To 200, Add	2.32	
For >100 To 150, Add	4.65	
For >75 To 100, Add	6.97	
For >50 To 75, Add	9.30	
For >25 To 50, Add	13.94	
For Up To 25, Add	20.92	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.65	
For Bursting Ductile Iron Pipe, Add	11.62	
33 01 30 23-0029 LF 15" Diameter, Static Head Pipe Bursting	61.72	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.93	
For >150 To 200, Add	2.55	
For >100 To 150, Add	5.10	
For >75 To 100, Add	7.65	
For >50 To 75, Add	10.20	
For >25 To 50, Add	15.29	
For Up To 25, Add	22.94	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.10	
For Bursting Ductile Iron Pipe, Add	12.75	
33 01 30 23-0030 LF 18" Diameter, Static Head Pipe Bursting	68.43	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.44	
For >150 To 200, Add	2.88	
For >100 To 150, Add	5.77	
For >75 To 100, Add	8.65	
For >50 To 75, Add	11.54	
For >25 To 50, Add	17.31	
For Up To 25, Add	25.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.77	
For Bursting Ductile Iron Pipe, Add	14.42	
33 01 30 23-0031 LF 21"/22" Diameter, Static Head Pipe Bursting	85.21	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.32	
For >150 To 200, Add	3.45	
For >100 To 150, Add	6.91	
For >75 To 100, Add	10.36	
For >50 To 75, Add	13.82	
For >25 To 50, Add	20.73	
For Up To 25, Add	31.09	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.91	
For Bursting Ductile Iron Pipe, Add	17.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0032 LF 24" Diameter, Static Head Pipe Bursting	110.57	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.27	
For >150 To 200, Add	4.72	
For >100 To 150, Add	9.45	
For >75 To 100, Add	14.17	
For >50 To 75, Add	18.89	
For >25 To 50, Add	28.34	
For Up To 25, Add	42.50	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.45	
For Bursting Ductile Iron Pipe, Add	23.61	
33 01 30 23-0033 LF 30" Diameter, Static Head Pipe Bursting	134.33	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.69	
For >150 To 200, Add	5.64	
For >100 To 150, Add	11.29	
For >75 To 100, Add	16.93	
For >50 To 75, Add	22.57	
For >25 To 50, Add	33.86	
For Up To 25, Add	50.79	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.29	
For Bursting Ductile Iron Pipe, Add	28.22	
33 01 30 23-0034 LF 36" Diameter, Static Head Pipe Bursting	162.95	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	10.89	
For >150 To 200, Add	7.07	
For >100 To 150, Add	14.15	
For >75 To 100, Add	21.22	
For >50 To 75, Add	28.30	
For >25 To 50, Add	42.44	
For Up To 25, Add	63.67	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	14.15	
For Bursting Ductile Iron Pipe, Add	35.37	
33 01 30 23-0035 Hydraulic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0036 LF 4" Diameter, Hydraulic Head Pipe Bursting	28.14	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.57	
For >150 To 200, Add	1.02	
For >100 To 150, Add	2.04	
For >75 To 100, Add	3.06	
For >50 To 75, Add	4.07	
For >25 To 50, Add	6.11	
For Up To 25, Add	9.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.04	
For Bursting Ductile Iron Pipe, Add	5.09	
33 01 30 23-0037 LF 6" Diameter, Hydraulic Head Pipe Bursting	31.70	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	1.84	
For >150 To 200, Add	1.20	
For >100 To 150, Add	2.39	
For >75 To 100, Add	3.59	
For >50 To 75, Add	4.79	
For >25 To 50, Add	7.18	
For Up To 25, Add	10.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.39	
For Bursting Ductile Iron Pipe, Add	5.98	
33 01 30 23-0038 LF 8" Diameter, Hydraulic Head Pipe Bursting	35.80	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.16	
For >150 To 200, Add	1.40	
For >100 To 150, Add	2.80	
For >75 To 100, Add	4.20	
For >50 To 75, Add	5.61	
For >25 To 50, Add	8.41	
For Up To 25, Add	12.61	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.80	
For Bursting Ductile Iron Pipe, Add	7.01	
33 01 30 23-0039 LF 10" Diameter, Hydraulic Head Pipe Bursting	41.13	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.57	
For >150 To 200, Add	1.67	
For >100 To 150, Add	3.34	
For >75 To 100, Add	5.00	
For >50 To 75, Add	6.67	
For >25 To 50, Add	10.01	
For Up To 25, Add	15.01	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.34	
For Bursting Ductile Iron Pipe, Add	8.34	
33 01 30 23-0040 LF 12" Diameter, Hydraulic Head Pipe Bursting	47.26	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.04	
For >150 To 200, Add	1.97	
For >100 To 150, Add	3.95	
For >75 To 100, Add	5.92	
For >50 To 75, Add	7.90	
For >25 To 50, Add	11.85	
For Up To 25, Add	17.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.95	
For Bursting Ductile Iron Pipe, Add	9.87	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0041 LF 15" Diameter, Hydraulic Head Pipe Bursting	53.58	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.30	
For >150 To 200, Add	2.14	
For >100 To 150, Add	4.28	
For >75 To 100, Add	6.43	
For >50 To 75, Add	8.57	
For >25 To 50, Add	12.85	
For Up To 25, Add	19.28	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.28	
For Bursting Ductile Iron Pipe, Add	10.71	
33 01 30 23-0042 LF 18" Diameter, Hydraulic Head Pipe Bursting	60.17	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.81	
For >150 To 200, Add	2.47	
For >100 To 150, Add	4.94	
For >75 To 100, Add	7.41	
For >50 To 75, Add	9.89	
For >25 To 50, Add	14.83	
For Up To 25, Add	22.24	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.94	
For Bursting Ductile Iron Pipe, Add	12.36	
33 01 30 23-0043 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting	75.32	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.56	
For >150 To 200, Add	2.96	
For >100 To 150, Add	5.92	
For >75 To 100, Add	8.88	
For >50 To 75, Add	11.84	
For >25 To 50, Add	17.76	
For Up To 25, Add	26.64	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.92	
For Bursting Ductile Iron Pipe, Add	14.80	
33 01 30 23-0044 LF 24" Diameter, Hydraulic Head Pipe Bursting	98.64	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.35	
For >150 To 200, Add	4.13	
For >100 To 150, Add	8.25	
For >75 To 100, Add	12.38	
For >50 To 75, Add	16.50	
For >25 To 50, Add	24.76	
For Up To 25, Add	37.13	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.25	
For Bursting Ductile Iron Pipe, Add	20.63	
33 01 30 23-0045 LF 30" Diameter, Hydraulic Head Pipe Bursting	120.96	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.66	
For >150 To 200, Add	4.97	
For >100 To 150, Add	9.95	
For >75 To 100, Add	14.92	
For >50 To 75, Add	19.90	
For >25 To 50, Add	29.85	
For Up To 25, Add	44.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.95	
For Bursting Ductile Iron Pipe, Add	24.87	
33 01 30 23-0046 LF 36" Diameter, Hydraulic Head Pipe Bursting	148.17	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.76	
For >150 To 200, Add	6.34	
For >100 To 150, Add	12.67	
For >75 To 100, Add	19.01	
For >50 To 75, Add	25.34	
For >25 To 50, Add	38.01	
For Up To 25, Add	57.02	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.67	
For Bursting Ductile Iron Pipe, Add	31.68	
33 01 30 23-0047 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0048 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0047)		
Note: Per each joint.		
33 01 30 23-0049 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	119.25	
33 01 30 23-0050 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	136.83	
33 01 30 23-0051 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	163.19	
33 01 30 23-0052 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0047)		
Note: Material only, to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0048 for pipe joint fusion.		
33 01 30 23-0053 LF 4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	3.98	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.45	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.22	
For White Interior Pipe, Add	0.82	
For Gray Interior Pipe, Add	0.62	
33 01 30 23-0054 LF 5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining	5.31	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.68	
For DR 11 Polyethylene Pipe, 160 PSI, Add	1.85	
For White Interior Pipe, Add	1.25	
For Gray Interior Pipe, Add	0.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0055 LF 6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	7.63	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.09	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	2.96	
<i>For White Interior Pipe, Add</i>	2.00	
<i>For Gray Interior Pipe, Add</i>	1.52	
33 01 30 23-0056 LF 7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	8.61	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.26	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	3.42	
<i>For White Interior Pipe, Add</i>	2.31	
<i>For Gray Interior Pipe, Add</i>	1.75	
33 01 30 23-0057 LF 8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	11.88	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.84	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	5.00	
<i>For White Interior Pipe, Add</i>	3.38	
<i>For Gray Interior Pipe, Add</i>	2.56	
33 01 30 23-0058 LF 10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	17.60	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-2.86	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	7.78	
<i>For White Interior Pipe, Add</i>	5.25	
<i>For Gray Interior Pipe, Add</i>	3.98	
33 01 30 23-0059 LF 12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	24.11	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.03	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	10.94	
<i>For White Interior Pipe, Add</i>	7.38	
<i>For Gray Interior Pipe, Add</i>	5.59	
33 01 30 23-0060 LF 13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	26.40	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.43	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	12.03	
<i>For White Interior Pipe, Add</i>	8.12	
<i>For Gray Interior Pipe, Add</i>	6.15	
33 01 30 23-0061 LF 14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	28.83	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-4.86	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	13.19	
<i>For White Interior Pipe, Add</i>	8.90	
<i>For Gray Interior Pipe, Add</i>	6.75	
33 01 30 23-0062 LF 16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	37.19	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-6.34	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	17.23	
<i>For White Interior Pipe, Add</i>	11.63	
<i>For Gray Interior Pipe, Add</i>	8.81	
33 01 30 23-0063 LF 18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	46.70	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-8.03	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	21.81	
<i>For White Interior Pipe, Add</i>	14.72	
<i>For Gray Interior Pipe, Add</i>	11.15	
33 01 30 23-0064 LF 20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	57.30	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-9.91	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	26.92	
<i>For White Interior Pipe, Add</i>	18.17	
<i>For Gray Interior Pipe, Add</i>	13.77	
33 01 30 23-0065 LF 22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	69.04	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-11.99	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	32.58	
<i>For White Interior Pipe, Add</i>	21.98	
<i>For Gray Interior Pipe, Add</i>	16.66	
33 01 30 23-0066 LF 24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	81.92	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-14.28	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	38.78	
<i>For White Interior Pipe, Add</i>	26.17	
<i>For Gray Interior Pipe, Add</i>	19.83	
33 01 30 23-0067 LF 26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	95.86	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-16.74	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	45.48	
<i>For White Interior Pipe, Add</i>	30.69	
<i>For Gray Interior Pipe, Add</i>	23.25	
33 01 30 23-0068 LF 28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	111.03	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-19.42	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	52.76	
<i>For White Interior Pipe, Add</i>	35.61	
<i>For Gray Interior Pipe, Add</i>	26.98	
33 01 30 23-0069 LF 30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	127.35	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-22.30	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	60.57	
<i>For White Interior Pipe, Add</i>	40.88	
<i>For Gray Interior Pipe, Add</i>	30.97	
33 01 30 23-0070 LF 32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	144.83	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-25.36	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	68.90	
<i>For White Interior Pipe, Add</i>	46.50	
<i>For Gray Interior Pipe, Add</i>	35.23	
33 01 30 23-0071 LF 34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	178.35	
<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-31.30	
<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	85.02	
<i>For White Interior Pipe, Add</i>	57.38	
<i>For Gray Interior Pipe, Add</i>	43.47	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0072 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	183.58	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-32.10	
For DR 11 Polyethylene Pipe, 160 PSI, Add	87.21	
For White Interior Pipe, Add	58.86	
For Gray Interior Pipe, Add	44.59	
33 01 30 23-0073 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)		
33 01 30 23-0074 Re-Connection Of Non-Renewed Laterals; Insert-A-Tee (33 01 30 23-0073)		
Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0039 for hauling.		
33 01 30 23-0075 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	1,185.87	
For No Excavation, Deduct	-774.38	
33 01 30 23-0076 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,331.38	
For No Excavation, Deduct	-871.16	
33 01 30 23-0077 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee	1,405.35	
For No Excavation, Deduct	-919.56	
33 01 30 23-0078 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee	1,479.31	
For No Excavation, Deduct	-967.96	
33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee	1,599.13	
For No Excavation, Deduct	-1,016.37	
33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee	1,496.20	
For No Excavation, Deduct	-967.96	
33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee	1,572.59	
For No Excavation, Deduct	-1,016.37	
33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee	1,682.75	
For No Excavation, Deduct	-1,064.76	
33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee	1,956.98	
For No Excavation, Deduct	-1,113.16	
33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee	2,059.89	
For No Excavation, Deduct	-1,161.56	
33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee	2,481.30	
For No Excavation, Deduct	-1,209.96	
33 01 30 23-0086 Re-Connection Of Non-Renewed Laterals; Saddle Style (33 01 30 23-0073)		
Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0039 for hauling.		
33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,609.97	
For No Excavation, Deduct	-864.26	
For Strap-On Saddle Type Instead Of Fusion Weld	-213.48	
33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,880.30	
For No Excavation, Deduct	-898.83	
For Strap-On Saddle Type Instead Of Fusion Weld	-197.13	
33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,008.09	
For No Excavation, Deduct	-933.40	
For Strap-On Saddle Type Instead Of Fusion Weld	-52.16	
33 01 30 23-0090 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,215.50	
For No Excavation, Deduct	-1,037.10	
For Strap-On Saddle Type Instead Of Fusion Weld	-93.65	
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,444.69	
For No Excavation, Deduct	-1,106.25	
For Strap-On Saddle Type Instead Of Fusion Weld	342.33	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,068.02	
For No Excavation, Deduct	-1,227.24	
For Strap-On Saddle Type Instead Of Fusion Weld	351.14	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,848.27	
For No Excavation, Deduct	-1,348.24	
For Strap-On Saddle Type Instead Of Fusion Weld	683.48	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,334.90	
For No Excavation, Deduct	-1,521.09	
For Strap-On Saddle Type Instead Of Fusion Weld	485.48	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	12,553.75	
For No Excavation, Deduct	-1,797.65	
For Strap-On Saddle Type Instead Of Fusion Weld	624.71	
33 01 30 41 Cleaning of Sewers (33 01 30)		
33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)		
Note: Includes flushing. Owner provided water.		
33 01 30 41-0002 Pipe Line Cleaning (33 01 30 41-0001)		
Note: Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0003 Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)		
33 01 30 41-0004 EA Initial Set Up And Final Equipment Removal For Jet Cleaning.....	2,470.78	
33 01 30 41-0005 EA Move And Reset Up At Different Access/Location For Jet Cleaning.....	617.70	
33 01 30 41-0006 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0007 LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	3.32	
<i>For >250 To 500, Deduct</i>	-0.17	
<i>For >500 To 1,000, Deduct</i>	-0.33	
<i>For >1,000 To 2,000, Deduct</i>	-0.50	
<i>For >2,000 To 5,000, Deduct</i>	-0.66	
<i>For >5,000, Deduct</i>	-0.83	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	2.49	
33 01 30 41-0008 LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	3.81	
<i>For >250 To 500, Deduct</i>	-0.19	
<i>For >500 To 1,000, Deduct</i>	-0.38	
<i>For >1,000 To 2,000, Deduct</i>	-0.57	
<i>For >2,000 To 5,000, Deduct</i>	-0.76	
<i>For >5,000, Deduct</i>	-0.95	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	2.86	
33 01 30 41-0009 LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.48	
<i>For >250 To 500, Deduct</i>	-0.22	
<i>For >500 To 1,000, Deduct</i>	-0.45	
<i>For >1,000 To 2,000, Deduct</i>	-0.67	
<i>For >2,000 To 5,000, Deduct</i>	-0.90	
<i>For >5,000, Deduct</i>	-1.12	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	3.36	
33 01 30 41-0010 LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.53	
<i>For >250 To 500, Deduct</i>	-0.28	
<i>For >500 To 1,000, Deduct</i>	-0.55	
<i>For >1,000 To 2,000, Deduct</i>	-0.83	
<i>For >2,000 To 5,000, Deduct</i>	-1.11	
<i>For >5,000, Deduct</i>	-1.38	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	4.15	
33 01 30 41-0011 LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.28	
<i>For >250 To 500, Deduct</i>	-0.31	
<i>For >500 To 1,000, Deduct</i>	-0.63	
<i>For >1,000 To 2,000, Deduct</i>	-0.94	
<i>For >2,000 To 5,000, Deduct</i>	-1.26	
<i>For >5,000, Deduct</i>	-1.57	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	4.71	
33 01 30 41-0012 LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	7.25	
<i>For >250 To 500, Deduct</i>	-0.36	
<i>For >500 To 1,000, Deduct</i>	-0.73	
<i>For >1,000 To 2,000, Deduct</i>	-1.09	
<i>For >2,000 To 5,000, Deduct</i>	-1.45	
<i>For >5,000, Deduct</i>	-1.81	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	5.44	
33 01 30 41-0013 LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	8.73	
<i>For >250 To 500, Deduct</i>	-0.44	
<i>For >500 To 1,000, Deduct</i>	-0.87	
<i>For >1,000 To 2,000, Deduct</i>	-1.31	
<i>For >2,000 To 5,000, Deduct</i>	-1.75	
<i>For >5,000, Deduct</i>	-2.18	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	6.55	
33 01 30 41-0014 LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	9.89	
<i>For >250 To 500, Deduct</i>	-0.49	
<i>For >500 To 1,000, Deduct</i>	-0.99	
<i>For >1,000 To 2,000, Deduct</i>	-1.48	
<i>For >2,000 To 5,000, Deduct</i>	-1.98	
<i>For >5,000, Deduct</i>	-2.47	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	7.42	
33 01 30 41-0015 LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	11.70	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500 To 1,000, Deduct</i>	-1.17	
<i>For >1,000 To 2,000, Deduct</i>	-1.76	
<i>For >2,000 To 5,000, Deduct</i>	-2.34	
<i>For >5,000, Deduct</i>	-2.93	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	8.78	
33 01 30 41-0016 LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....	14.71	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500 To 1,000, Deduct</i>	-1.47	
<i>For >1,000 To 2,000, Deduct</i>	-2.21	
<i>For >2,000 To 5,000, Deduct</i>	-2.94	
<i>For >5,000, Deduct</i>	-3.68	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	11.03	
33 01 30 41-0017 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	17.16	
<i>For >250 To 500, Deduct</i>	-0.86	
<i>For >500 To 1,000, Deduct</i>	-1.72	
<i>For >1,000 To 2,000, Deduct</i>	-2.57	
<i>For >2,000 To 5,000, Deduct</i>	-3.43	
<i>For >5,000, Deduct</i>	-4.29	
<i>For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add</i>	12.87	
33 01 30 41-0018 Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0019 LF 12" To 16" Diameter Pipe Line Flushing	1.28	
<i>For >250 To 500, Deduct</i>	-0.06	
<i>For >500 To 1,000, Deduct</i>	-0.13	
<i>For >1,000 To 2,000, Deduct</i>	-0.19	
<i>For >2,000 To 5,000, Deduct</i>	-0.26	
<i>For >5,000, Deduct</i>	-0.32	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0020 LF >16" To 24" Diameter Pipe Line Flushing	1.47	
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.15	
For >1,000 To 2,000, Deduct	-0.22	
For >2,000 To 5,000, Deduct	-0.29	
For >5,000, Deduct	-0.37	
33 01 30 41-0021 LF >24" To 30" Diameter Pipe Line Flushing	1.72	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.17	
For >1,000 To 2,000, Deduct	-0.26	
For >2,000 To 5,000, Deduct	-0.34	
For >5,000, Deduct	-0.43	
33 01 30 41-0022 LF >30" To 42" Diameter Pipe Line Flushing	1.97	
For >250 To 500, Deduct	-0.10	
For >500 To 1,000, Deduct	-0.20	
For >1,000 To 2,000, Deduct	-0.30	
For >2,000 To 5,000, Deduct	-0.39	
For >5,000, Deduct	-0.49	
33 01 30 41-0023 LF >42" To 60" Diameter Pipe Line Flushing	2.63	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 2,000, Deduct	-0.39	
For >2,000 To 5,000, Deduct	-0.53	
For >5,000, Deduct	-0.66	
33 01 30 41-0024 Hydro Jet Cleaning Of Culverts <small>(33 01 30 41-0002)</small>		
33 01 30 41-0025 LF Jet Cleaning Of Culvert, 0-250 LF	15.36	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.54	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000 To 5,000, Deduct	-3.07	
For >5,000, Deduct	-3.84	
33 01 30 41-0026 Pipe Line Cleaning, Mechanical Method <small>(33 01 30 41-0001)</small>		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0027 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning	1,091.72	
33 01 30 41-0028 EA Move And Reset Up At Different Access/Location	363.91	
33 01 30 41-0029 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.31	
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.61	
For >1,000 To 2,000, Deduct	-0.91	
For >2,000 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-1.52	
33 01 30 41-0030 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	8.28	
For >250 To 500, Deduct	-0.39	
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 2,000, Deduct	-1.17	
For >2,000 To 5,000, Deduct	-1.56	
For >5,000, Deduct	-1.95	
33 01 30 41-0031 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	9.69	
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.91	
For >1,000 To 2,000, Deduct	-1.36	
For >2,000 To 5,000, Deduct	-1.82	
For >5,000, Deduct	-2.27	
33 01 30 41-0032 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	11.22	
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-1.58	
For >2,000 To 5,000, Deduct	-2.10	
For >5,000, Deduct	-2.63	
33 01 30 41-0033 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	12.22	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-1.71	
For >2,000 To 5,000, Deduct	-2.28	
For >5,000, Deduct	-2.85	
33 01 30 41-0034 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	14.08	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.30	
For >1,000 To 2,000, Deduct	-1.95	
For >2,000 To 5,000, Deduct	-2.60	
For >5,000, Deduct	-3.25	
33 01 30 41-0035 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	17.74	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-2.41	
For >2,000 To 5,000, Deduct	-3.21	
For >5,000, Deduct	-4.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0036 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	20.31	
<i>For >250 To 500, Deduct</i>	-0.90	
<i>For >500 To 1,000, Deduct</i>	-1.79	
<i>For >1,000 To 2,000, Deduct</i>	-2.69	
<i>For >2,000 To 5,000, Deduct</i>	-3.58	
<i>For >5,000, Deduct</i>	-4.48	
33 01 30 41-0037 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	23.61	
<i>For >250 To 500, Deduct</i>	-1.03	
<i>For >500 To 1,000, Deduct</i>	-2.06	
<i>For >1,000 To 2,000, Deduct</i>	-3.09	
<i>For >2,000 To 5,000, Deduct</i>	-4.12	
<i>For >5,000, Deduct</i>	-5.15	
33 01 30 41-0038 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....	30.91	
<i>For >250 To 500, Deduct</i>	-1.36	
<i>For >500 To 1,000, Deduct</i>	-2.73	
<i>For >1,000 To 2,000, Deduct</i>	-4.09	
<i>For >2,000 To 5,000, Deduct</i>	-5.46	
<i>For >5,000, Deduct</i>	-6.82	
33 01 30 41-0039 LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....	35.16	
<i>For >250 To 500, Deduct</i>	-1.52	
<i>For >500 To 1,000, Deduct</i>	-3.03	
<i>For >1,000 To 2,000, Deduct</i>	-4.55	
<i>For >2,000 To 5,000, Deduct</i>	-6.07	
<i>For >5,000, Deduct</i>	-7.58	
33 01 30 41-0040 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0041 EA Initial Set Up And Final Equipment Removal For Auguring	1,091.72	
33 01 30 41-0042 EA Move And Reset Up At Different Location	363.91	
33 01 30 41-0043 LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.64	
<i>For >250 To 500, Deduct</i>	-0.18	
<i>For >500 To 1,000, Deduct</i>	-0.36	
<i>For >1,000 To 2,000, Deduct</i>	-0.55	
<i>For >2,000 To 5,000, Deduct</i>	-0.73	
<i>For >5,000, Deduct</i>	-0.91	
33 01 30 41-0044 LF 6" Diameter Pipe Line Auguring/Rod Out	4.71	
<i>For >250 To 500, Deduct</i>	-0.24	
<i>For >500 To 1,000, Deduct</i>	-0.47	
<i>For >1,000 To 2,000, Deduct</i>	-0.71	
<i>For >2,000 To 5,000, Deduct</i>	-0.94	
<i>For >5,000, Deduct</i>	-1.18	
33 01 30 41-0045 LF 8" Diameter Pipe Line Auguring/Rod Out	5.46	
<i>For >250 To 500, Deduct</i>	-0.27	
<i>For >500 To 1,000, Deduct</i>	-0.55	
<i>For >1,000 To 2,000, Deduct</i>	-0.82	
<i>For >2,000 To 5,000, Deduct</i>	-1.09	
<i>For >5,000, Deduct</i>	-1.37	
33 01 30 41-0046 LF 10" Diameter Pipe Line Auguring/Rod Out	6.35	
<i>For >250 To 500, Deduct</i>	-0.32	
<i>For >500 To 1,000, Deduct</i>	-0.64	
<i>For >1,000 To 2,000, Deduct</i>	-0.95	
<i>For >2,000 To 5,000, Deduct</i>	-1.27	
<i>For >5,000, Deduct</i>	-1.59	
33 01 30 41-0047 LF 12" Diameter Pipe Line Auguring/Rod Out	6.82	
<i>For >250 To 500, Deduct</i>	-0.34	
<i>For >500 To 1,000, Deduct</i>	-0.68	
<i>For >1,000 To 2,000, Deduct</i>	-1.02	
<i>For >2,000 To 5,000, Deduct</i>	-1.36	
<i>For >5,000, Deduct</i>	-1.71	
33 01 30 41-0048 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....	7.80	
<i>For >250 To 500, Deduct</i>	-0.39	
<i>For >500 To 1,000, Deduct</i>	-0.78	
<i>For >1,000 To 2,000, Deduct</i>	-1.17	
<i>For >2,000 To 5,000, Deduct</i>	-1.56	
<i>For >5,000, Deduct</i>	-1.95	
33 01 30 41-0049 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	9.57	
<i>For >250 To 500, Deduct</i>	-0.48	
<i>For >500 To 1,000, Deduct</i>	-0.96	
<i>For >1,000 To 2,000, Deduct</i>	-1.44	
<i>For >2,000 To 5,000, Deduct</i>	-1.91	
<i>For >5,000, Deduct</i>	-2.39	
33 01 30 41-0050 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	10.70	
<i>For >250 To 500, Deduct</i>	-0.54	
<i>For >500 To 1,000, Deduct</i>	-1.07	
<i>For >1,000 To 2,000, Deduct</i>	-1.61	
<i>For >2,000 To 5,000, Deduct</i>	-2.14	
<i>For >5,000, Deduct</i>	-2.68	
33 01 30 41-0051 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	12.41	
<i>For >250 To 500, Deduct</i>	-0.62	
<i>For >500 To 1,000, Deduct</i>	-1.24	
<i>For >1,000 To 2,000, Deduct</i>	-1.86	
<i>For >2,000 To 5,000, Deduct</i>	-2.48	
<i>For >5,000, Deduct</i>	-3.10	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0052 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out	17.06	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.71	
For >1,000 To 2,000, Deduct	-2.56	
For >2,000 To 5,000, Deduct	-3.41	
For >5,000, Deduct	-4.27	
33 01 30 41-0053 LF >60" Diameter Pipe Line Auguring/Rod Out	18.20	
For >250 To 500, Deduct	-0.91	
For >500 To 1,000, Deduct	-1.82	
For >1,000 To 2,000, Deduct	-2.73	
For >2,000 To 5,000, Deduct	-3.64	
For >5,000, Deduct	-4.55	
33 01 30 42 Cleaning of Manholes (33 01 30)		
33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)		
Note: Includes flushing. Owner provided water.		
33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)		
33 01 30 42-0003 EA Rod Out Waste Water Drain	58.08	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	116.16	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	23.23	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	25.56	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	29.04	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	33.69	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage	39.50	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage	46.47	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage	54.60	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage	62.73	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage	73.19	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage	87.12	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	290.42	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	789.14	
For >10 To 100, Deduct	-118.37	
For >100 To 250, Deduct	-177.56	
For >250, Deduct	-236.74	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	946.95	
For >10 To 100, Deduct	-142.04	
For >100 To 250, Deduct	-213.06	
For >250, Deduct	-284.09	
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand	473.48	
For >10 To 100, Deduct	-71.02	
For >100 To 250, Deduct	-106.53	
For >250, Deduct	-142.04	
33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)		
Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.		
33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	267.22	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	248.21	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	229.21	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	210.20	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	191.19	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	172.18	
33 01 30 43 Removal of Protruding Service Connection (33 01 30)		
33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)		
33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic	694.43	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic	763.87	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic	833.32	
33 01 30 51 Maintenance of Utilities (33 01 30)		
33 01 30 51-0001 Pipe Repair (33 01 30 51)		
33 01 30 51-0002 Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)		
Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0003 EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	132.13	
For Stainless Steel Nuts And Bolts, Add	19.70	
33 01 30 51-0004 EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	185.41	
For Stainless Steel Nuts And Bolts, Add	29.69	
33 01 30 51-0005 EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	213.28	
For Stainless Steel Nuts And Bolts, Add	34.96	
33 01 30 51-0006 EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	242.47	
For Stainless Steel Nuts And Bolts, Add	40.22	
33 01 30 51-0007 EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	142.31	
For Stainless Steel Nuts And Bolts, Add	21.39	
33 01 30 51-0008 EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	196.89	
For Stainless Steel Nuts And Bolts, Add	31.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0009 EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	224.93 36.83	
33 01 30 51-0010 EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	259.21 43.10	
33 01 30 51-0011 EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	152.47 23.40	
33 01 30 51-0012 EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	204.57 33.12	
33 01 30 51-0013 EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	235.74 38.83	
33 01 30 51-0014 EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	273.69 46.10	
33 01 30 51-0015 EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	171.45 26.61	
33 01 30 51-0016 EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	225.51 35.82	
33 01 30 51-0017 EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	273.24 43.61	
33 01 30 51-0018 EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	329.07 52.60	
33 01 30 51-0019 EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	427.64 70.65	
33 01 30 51-0020 EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	530.89 88.70	
33 01 30 51-0021 EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	646.85 108.81	
33 01 30 51-0022 EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	201.37 31.40	
33 01 30 51-0023 EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	266.25 42.60	
33 01 30 51-0024 EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	315.65 50.23	
33 01 30 51-0025 EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	370.48 58.37	
33 01 30 51-0026 EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	507.79 84.58	
33 01 30 51-0027 EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	617.01 103.14	
33 01 30 51-0028 EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	736.86 123.25	
33 01 30 51-0029 EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	267.08 37.57	
33 01 30 51-0030 EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	345.80 49.71	
33 01 30 51-0031 EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	417.18 60.16	
33 01 30 51-0032 EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	498.40 71.68	
33 01 30 51-0033 EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	656.12 99.31	
33 01 30 51-0034 EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	784.76 118.75	
33 01 30 51-0035 EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	930.59 139.77	
33 01 30 51-0036 EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	310.33 45.73	
33 01 30 51-0037 EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	414.38 63.25	
33 01 30 51-0038 EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	488.79 73.95	
33 01 30 51-0039 EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	598.67 91.46	
33 01 30 51-0040 EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	780.58 124.06	
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	892.04 138.66	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,141.59 182.93	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	353.91 51.58	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	460.33 68.59	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	555.39 83.00	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	681.85 103.14	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	872.40 136.23	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,027.54 159.09	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,300.13 206.28	

33 Utilities

33 01 Operation and Maintenance of Utilities

33 01 30 Operation and Maintenance of Sewer Utilities



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 51-0050		Pipe Repair Clamp, Full Circle, Double Bands <small>(33 01 30 51-0001)</small>			
		Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.			
33 01 30 51-0051	EA	14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	759.99		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	198.43		
33 01 30 51-0052	EA	14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,072.46		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	286.46		
33 01 30 51-0053	EA	14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,441.49		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	388.48		
33 01 30 51-0054	EA	14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,110.50		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	585.52		
33 01 30 51-0055	EA	15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	797.78		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	208.20		
33 01 30 51-0056	EA	15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,122.78		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	299.74		
33 01 30 51-0057	EA	15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,505.70		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	405.25		
33 01 30 51-0058	EA	15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,212.74		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	613.46		
33 01 30 51-0059	EA	15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	819.22		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	212.40		
33 01 30 51-0060	EA	15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,150.92		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	305.34		
33 01 30 51-0061	EA	15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,546.71		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	414.33		
33 01 30 51-0062	EA	15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,271.23		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	626.73		
33 01 30 51-0063	EA	16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	841.92		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	216.59		
33 01 30 51-0064	EA	16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,183.04		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	311.63		
33 01 30 51-0065	EA	16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,587.46		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	422.01		
33 01 30 51-0066	EA	16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,330.28		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	639.31		
33 01 30 51-0067	EA	17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	862.60		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	220.09		
33 01 30 51-0068	EA	17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,211.01		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	316.51		
33 01 30 51-0069	EA	17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,628.20		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	429.70		
33 01 30 51-0070	EA	17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,384.48		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	649.79		
33 01 30 51-0071	EA	17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	881.96		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	223.59		
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,239.13		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	322.10		
33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,664.34		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	436.69		
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	2,420.59		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	655.03		
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	903.83		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	227.94		
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,271.99		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	329.09		
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)	1,702.47		
		<i>For Stainless Steel Nuts And Bolts, Add</i>	444.37		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0078 EA 18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,494.54 673.55	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling.....	104.02	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling.....	120.91	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling.....	142.17	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling.....	159.84	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling.....	248.44	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow.....	125.61	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow.....	145.25	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow.....	297.52	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....	116.35	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....	104.73	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	122.60	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	152.05	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee.....	231.45	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee.....	177.51	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee.....	211.01	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee.....	172.74	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter.....	108.88	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter.....	86.89	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter.....	98.67	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter.....	119.58	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter.....	143.86	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter.....	156.70	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter.....	127.89	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter.....	135.01	
33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
33 01 30 51-0112 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	70.11	
33 01 30 51-0113 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	71.99	
33 01 30 51-0114 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring.....	81.33	
33 01 30 51-0115 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	90.75	
33 01 30 51-0116 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	112.28	
33 01 30 51-0117 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring.....	136.43	
33 01 30 51-0118 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	71.91	
33 01 30 51-0119 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	73.98	
33 01 30 51-0120 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	81.62	
33 01 30 51-0121 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	91.67	
33 01 30 51-0122 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	115.31	
33 01 30 51-0123 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	137.77	
33 01 30 51-0124 EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	133.91	
33 01 30 51-0125 EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	156.64	
33 01 30 51-0126 EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	163.71	
33 01 30 51-0127 EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	185.08	
33 01 30 51-0128 EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket.....	225.06	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0130 EA 3/4" x 1/2" Reducing Coupling (Compression).....	78.01	
33 01 30 51-0131 EA 1" x 3/4" Reducing Coupling (Compression).....	83.29	
33 01 30 51-0132 EA 1-1/4" x 3/4" Reducing Coupling (Compression).....	94.04	
33 01 30 51-0133 EA 1-1/4" x 1" Reducing Coupling (Compression).....	97.37	
33 01 30 51-0134 EA 1-1/2" x 3/4" Reducing Coupling (Compression).....	181.76	
33 01 30 51-0135 EA 1-1/2" x 1" Reducing Coupling (Compression).....	117.44	
33 01 30 51-0136 EA 1-1/2" x 1-1/4" Reducing Coupling (Compression).....	117.91	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0137 EA 2" x 3/4" Reducing Coupling (Compression).....	217.14	
33 01 30 51-0138 EA 2" x 1" Reducing Coupling (Compression).....	198.66	
33 01 30 51-0139 EA 2" x 1-1/4" Reducing Coupling (Compression).....	154.70	
33 01 30 51-0140 EA 2" x 1-1/2" Reducing Coupling (Compression).....	154.22	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" 45 Degree Elbow (Compression).....	125.69	
33 01 30 51-0143 EA 1-1/4" 45 Degree Elbow (Compression).....	131.73	
33 01 30 51-0144 EA 1-1/2" 45 Degree Elbow (Compression).....	169.81	
33 01 30 51-0145 EA 2" 45 Degree Elbow (Compression).....	213.69	
33 01 30 51-0146 EA 3/4" 90 Degree Elbow (Compression).....	85.68	
33 01 30 51-0147 EA 1" 90 Degree Elbow (Compression).....	89.70	
33 01 30 51-0148 EA 1-1/4" 90 Degree Elbow (Compression).....	104.85	
33 01 30 51-0149 EA 1-1/2" 90 Degree Elbow (Compression).....	148.01	
33 01 30 51-0150 EA 2" 90 Degree Elbow (Compression).....	163.28	
33 01 30 51-0151 EA 3/4" Plain End 90 Degree Street Elbow (Compression).....	85.93	
33 01 30 51-0152 EA 1" Plain End 90 Degree Street Elbow (Compression).....	77.72	
33 01 30 51-0153 EA 1-1/4" Plain End 90 Degree Street Elbow (Compression).....	87.89	
33 01 30 51-0154 EA 1-1/2" Plain End 90 Degree Street Elbow (Compression).....	111.04	
33 01 30 51-0155 EA 2" Plain End 90 Degree Street Elbow (Compression).....	142.38	
33 01 30 51-0156 EA 3/4" Threaded End 90 Degree Street Elbow (Compression).....	88.54	
33 01 30 51-0157 EA 1" Threaded End 90 Degree Street Elbow (Compression).....	82.60	
33 01 30 51-0158 EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression).....	106.01	
33 01 30 51-0159 EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression).....	128.33	
33 01 30 51-0160 EA 2" Threaded End 90 Degree Street Elbow (Compression).....	179.34	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Street Tee (Compression).....	97.09	
33 01 30 51-0163 EA 1" Street Tee (Compression).....	114.17	
33 01 30 51-0164 EA 1-1/4" Street Tee (Compression).....	117.03	
33 01 30 51-0165 EA 1-1/2" Street Tee (Compression).....	136.48	
33 01 30 51-0166 EA 2" Street Tee (Compression).....	200.93	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression).....	116.09	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression).....	120.81	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression).....	151.27	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression).....	172.60	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression).....	173.54	
33 01 30 51-0172 EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression).....	149.27	
33 01 30 51-0173 EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression).....	196.32	
33 01 30 51-0174 EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression).....	220.02	
33 01 30 51-0175 EA 3/4" Welding Street Tee (Compression).....	168.18	
33 01 30 51-0176 EA 1" Welding Street Tee (Compression).....	170.44	
33 01 30 51-0177 EA 1-1/4" Welding Street Tee (Compression).....	183.72	
33 01 30 51-0178 EA 1-1/2" Welding Street Tee (Compression).....	221.78	
33 01 30 51-0179 EA 2" Welding Street Tee (Compression).....	296.08	
33 01 30 51-0180 EA 3/4" Regular Tee (Compression).....	126.82	
33 01 30 51-0181 EA 1" Regular Tee (Compression).....	215.56	
33 01 30 51-0182 EA 1-1/4" Regular Tee (Compression).....	228.75	
33 01 30 51-0183 EA 1-1/2" Regular Tee (Compression).....	248.20	
33 01 30 51-0184 EA 2" Regular Tee (Compression).....	276.88	
33 01 30 51-0185 EA 2" x 2" x 1-1/4" Regular Reducing Tee (Compression).....	273.09	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0187 EA 3/4" Male Adapter (Compression).....	85.46	
33 01 30 51-0188 EA 1" Male Adapter (Compression).....	95.61	
33 01 30 51-0189 EA 1-1/4" Male Adapter (Compression).....	123.32	
33 01 30 51-0190 EA 1-1/2" Male Adapter (Compression).....	140.43	
33 01 30 51-0191 EA 2" Male Adapter (Compression).....	159.32	
33 01 30 51-0192 EA 1" x 1-1/4" Male Adapter (Compression).....	122.71	
33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0194 EA 3/4" Line Caps (Compression).....	45.64	
33 01 30 51-0195 EA 1" Line Caps (Compression).....	53.16	
33 01 30 51-0196 EA 1-1/4" Line Caps (Compression).....	60.77	
33 01 30 51-0197 EA 1-1/2" Line Caps (Compression).....	71.86	
33 01 30 51-0198 EA 2" Line Caps (Compression).....	88.54	
33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)		
Note: Includes Buna S gasket, Dresser style 38		
33 01 30 51-0200 EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	51.93	
33 01 30 51-0201 EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	66.78	
33 01 30 51-0202 EA 1" Coupling, 5" Middle Ring With Buna S Gasket.....	80.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	100.46	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	123.89	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	141.15	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	136.86	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	188.13	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	190.73	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	193.33	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	228.33	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	232.74	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	238.27	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	284.37	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	286.11	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	292.45	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	315.10	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	319.81	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	325.83	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	369.05	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	376.02	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	381.74	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	432.95	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	465.84	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	491.04	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	560.76	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	633.51	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	726.83	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	794.33	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	856.64	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,006.04	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,064.45	

33 01 30 51-0232**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna S gasket, protected, Dresser style 38.

33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	52.68	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	66.68	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	80.23	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	100.12	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	133.81	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	132.44	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	133.13	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	193.33	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	195.93	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	198.53	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	235.41	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	230.83	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	233.24	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	293.49	
33 01 30 51-0247	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	294.77	
33 01 30 51-0248	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	353.74	
33 01 30 51-0249	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	317.89	
33 01 30 51-0250	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	324.66	
33 01 30 51-0251	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	327.27	
33 01 30 51-0252	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	384.18	
33 01 30 51-0253	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	386.75	
33 01 30 51-0254	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	390.89	
33 01 30 51-0255	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	439.19	
33 01 30 51-0256	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	472.34	
33 01 30 51-0257	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	497.54	
33 01 30 51-0258	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	567.12	
33 01 30 51-0259	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	640.01	
33 01 30 51-0260	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	736.58	
33 01 30 51-0261	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	807.33	
33 01 30 51-0262	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	869.64	
33 01 30 51-0263	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,019.04	
33 01 30 51-0264	EA	24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,077.45	

33 01 30 51-0265**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	57.30	
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	71.38	
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	85.75	
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	107.29	
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	133.81	
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	145.42	
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	149.28	
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	193.33	
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	195.93	
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	198.53	
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	235.41	
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	244.68	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0278	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	248.21	
33 01 30 51-0279	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	293.49	
33 01 30 51-0280	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	294.77	
33 01 30 51-0281	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	309.65	
33 01 30 51-0282	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	317.89	
33 01 30 51-0283	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	324.66	
33 01 30 51-0284	EA	6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	327.27	
33 01 30 51-0285	EA	8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	384.18	
33 01 30 51-0286	EA	8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	386.75	
33 01 30 51-0287	EA	8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	390.89	
33 01 30 51-0288	EA	10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	439.19	
33 01 30 51-0289	EA	10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	472.34	
33 01 30 51-0290	EA	12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	497.54	
33 01 30 51-0291	EA	12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	567.12	
33 01 30 51-0292	EA	14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	640.01	
33 01 30 51-0293	EA	16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	726.83	
33 01 30 51-0294	EA	18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	807.33	
33 01 30 51-0295	EA	20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	869.64	
33 01 30 51-0296	EA	22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,019.04	
33 01 30 51-0297	EA	24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,077.45	

33 01 30 51-0298**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	87.69	
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	100.66	
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	116.38	
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	161.30	
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	168.42	
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	172.04	
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	218.39	
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	217.57	
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	257.68	
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	261.21	
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	335.13	
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	339.81	
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	368.76	
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	371.87	
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	406.48	
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	453.00	
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	471.97	
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	503.92	
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	503.86	
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	608.26	
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	622.55	
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	705.30	
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	837.21	
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	851.53	
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	936.59	
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,010.59	
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,090.45	

33 01 30 51-0326**Grind Offset Joint (33 01 30 51-0001)**

33 01 30 51-0327	EA	6" To 10", Grind Drop Offset Joint.....	416.65	
33 01 30 51-0328	EA	>10" To 15", Grind Drop Offset Joint.....	555.54	
33 01 30 51-0329	EA	>15" To 24", Grind Drop Offset Joint.....	694.43	
33 01 30 51-0330	EA	>24" To 30", Grind Drop Offset Joint.....	833.32	

33 01 30 51-0331**Temporary Pipe Plugging (33 01 30 51-0001)****33 01 30 51-0332****Gravity Bladder Pipe Plugging (33 01 30 51-0331)**

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0333	EA	3/4" Bladder Type Pipe Plug.....	73.43	
33 01 30 51-0334	EA	1" Bladder Type Pipe Plug.....	78.75	
33 01 30 51-0335	EA	1-1/4" Bladder Type Pipe Plug.....	86.00	
33 01 30 51-0336	EA	1-1/2" Bladder Type Pipe Plug.....	92.48	
33 01 30 51-0337	EA	2" Bladder Type Pipe Plug.....	98.58	
33 01 30 51-0338	EA	2-1/2" Bladder Type Pipe Plug.....	105.80	
33 01 30 51-0339	EA	3" Bladder Type Pipe Plug.....	115.90	
33 01 30 51-0340	EA	4" Bladder Type Pipe Plug.....	127.88	
33 01 30 51-0341	EA	5" Bladder Type Pipe Plug.....	138.30	
33 01 30 51-0342	EA	6" Bladder Type Pipe Plug.....	153.88	
33 01 30 51-0343	EA	8" Bladder Type Pipe Plug.....	171.15	
33 01 30 51-0344	EA	10" Bladder Type Pipe Plug.....	198.11	
33 01 30 51-0345	EA	12" Bladder Type Pipe Plug.....	239.47	
33 01 30 51-0346	EA	14" Bladder Type Pipe Plug.....	283.58	
33 01 30 51-0347	EA	16" Bladder Type Pipe Plug.....	340.99	
33 01 30 51-0348	EA	18" Bladder Type Pipe Plug.....	410.04	
33 01 30 51-0349	EA	20" Bladder Type Pipe Plug.....	493.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0350 EA 24" Bladder Type Pipe Plug.....	572.29	
33 01 30 51-0351 Hydra Stop, Hot Tapping Of Pressure Pipe <small>(33 01 30 51-0331)</small>		
<small>Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.</small>		
33 01 30 51-0352 EA 2" Hydra Stop, Line Stopper	2,301.82	
33 01 30 51-0353 EA 2-1/2" Hydra Stop, Line Stopper	2,888.01	
33 01 30 51-0354 EA 3" Hydra Stop, Line Stopper	3,538.64	
33 01 30 51-0355 EA 4" Hydra Stop, Line Stopper	4,281.47	
33 01 30 51-0356 EA 5" Hydra Stop, Line Stopper	4,841.75	
33 01 30 51-0357 EA 6" Hydra Stop, Line Stopper	5,747.49	
33 01 30 51-0358 EA 8" Hydra Stop, Line Stopper	6,307.76	
33 01 30 51-0359 EA 10" Hydra Stop, Line Stopper	7,213.49	
33 01 30 51-0360 EA 12" Hydra Stop, Line Stopper	8,119.25	
33 01 30 51-0361 EA 14" Hydra Stop, Line Stopper	9,078.68	
33 01 30 51-0362 EA 16" Hydra Stop, Line Stopper	10,360.34	
33 01 30 51-0363 EA 18" Hydra Stop, Line Stopper	11,803.05	
33 01 30 51-0364 EA 20" Hydra Stop, Line Stopper	13,997.41	
33 01 30 51-0365 Aluminum Expansion Plugs <small>(33 01 30 51-0331)</small>		
<small>Note: For use with PVC, clay Or cast iron drainage pipe.</small>		
33 01 30 51-0366 EA 3" Pipe Aluminum Expansion Plug.....	69.17	
33 01 30 51-0367 EA 4" Pipe Aluminum Expansion Plug.....	97.32	
33 01 30 51-0368 EA 5" Pipe Aluminum Expansion Plug.....	109.44	
33 01 30 51-0369 EA 6" Pipe Aluminum Expansion Plug.....	163.23	
33 01 30 51-0370 EA 8" Pipe Aluminum Expansion Plug.....	168.05	
33 01 30 51-0371 EA 10" Pipe Aluminum Expansion Plug.....	208.78	
33 01 30 51-0372 EA 12" Pipe Aluminum Expansion Plug.....	279.77	
33 01 30 51-0373 EA 14" Pipe Aluminum Expansion Plug.....	446.72	
33 01 30 51-0374 EA 15" Pipe Aluminum Expansion Plug.....	483.34	
33 01 30 51-0375 Pipe Repair Clamp, Stainless Steel, 3" Long <small>(33 01 30 51-0001)</small>		
33 01 30 51-0376 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	181.83	
33 01 30 51-0377 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	182.01	
33 01 30 51-0378 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	182.45	
33 01 30 51-0379 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long	182.89	
33 01 30 51-0380 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	183.11	
33 01 30 51-0381 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	183.77	
33 01 30 51-0382 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long	184.43	
33 01 30 51-0383 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	185.31	
33 01 30 51-0384 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	334.56	
33 01 30 51-0385 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	337.42	
33 01 30 51-0386 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	339.41	
33 01 30 51-0387 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	360.36	
33 01 30 51-0388 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	363.01	
33 01 30 51-0389 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	364.78	
33 01 30 51-0390 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	367.42	
33 01 30 51-0391 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	370.07	
33 01 30 51-0392 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	373.60	
33 01 30 51-0393 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	379.77	
33 01 30 51-0394 Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small>		
33 01 30 51-0395 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	367.29	
33 01 30 51-0396 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	415.31	
33 01 30 63 Sewer and Pipe Joint Sealing <small>(33 01 30)</small>		
33 01 30 63-0001 Joint Air Test <small>(33 01 30 63)</small>		
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	102.95	
33 01 30 63-0003 EA 10" To 15", Joint Air Test	120.11	
33 01 30 63-0004 EA >15" To 21", Joint Air Test	137.26	
33 01 30 63-0005 EA >21" To 24", Joint Air Test	171.58	
33 01 30 63-0006 EA >24" To 27", Joint Air Test.....	205.90	
33 01 30 63-0007 EA >27" To 36", Joint Air Test.....	240.21	
33 01 30 63-0008 Joint Seal And Joint Air Retest <small>(33 01 30 63)</small>		
<small>Note: Includes grout.</small>		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest	303.48	
<small>Note: Includes up to 1 gallon of grout.</small>		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest	337.80	
<small>Note: Includes 1 gallon of grout.</small>		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest	401.07	
<small>Note: Includes 2 gallons of grout.</small>		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest	449.86	
<small>Note: Includes 2.5 gallons of grout.</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest Note: Includes 3 gallons of grout.	498.65	
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest Note: Includes 3.75 gallons of grout.	589.01	
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest Note: Includes 4.5 gallons of grout.	679.35	
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest Note: Includes 5.25 gallons of grout.	769.71	
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest Note: Includes 6 gallons of grout.	894.37	
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest Note: Includes 6.75 gallons of grout.	1,019.04	
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest Note: Includes 7.5 gallons of grout.	1,178.01	
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest Note: Includes 9 gallons of grout.	1,358.71	
33 01 30 63-0021 GAL Extra Grout Per Joint Note: For extra grout per joint required over listed amount.	166.21	

33 01 30 71 Relining Sewer Utilities Pipelines (33 01 30)**33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)**

Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 71-0002 Lining Pipe With Rib Loc (33 01 30 71-0001)

33 01 30 71-0003 LF Lining 6" Pipe With Rib Loc.....	40.98	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-2.05	
For >2,000 To 5,000, Deduct	-3.16	
For >5,000, Deduct	-4.68	
33 01 30 71-0004 LF Lining 8" Pipe With Rib Loc.....	45.58	
For >500 To 1,000, Deduct	-1.16	
For >1,000 To 2,000, Deduct	-2.26	
For >2,000 To 5,000, Deduct	-3.49	
For >5,000, Deduct	-5.19	
33 01 30 71-0005 LF Lining 10" Pipe With Rib Loc.....	63.01	
For >500 To 1,000, Deduct	-1.54	
For >1,000 To 2,000, Deduct	-3.00	
For >2,000 To 5,000, Deduct	-4.61	
For >5,000, Deduct	-6.99	
33 01 30 71-0006 LF Lining 12" Pipe With Rib Loc.....	80.13	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.73	
For >2,000 To 5,000, Deduct	-5.72	
For >5,000, Deduct	-8.77	
33 01 30 71-0007 LF Lining 15" Pipe With Rib Loc.....	106.57	
For >500 To 1,000, Deduct	-2.48	
For >1,000 To 2,000, Deduct	-4.86	
For >2,000 To 5,000, Deduct	-7.43	
For >5,000, Deduct	-11.52	
33 01 30 71-0008 LF Lining 18" Pipe With Rib Loc.....	137.39	
For >500 To 1,000, Deduct	-3.14	
For >1,000 To 2,000, Deduct	-6.17	
For >2,000 To 5,000, Deduct	-9.41	
For >5,000, Deduct	-14.71	
33 01 30 71-0009 LF Lining 21" Pipe With Rib Loc.....	172.44	
For >500 To 1,000, Deduct	-3.87	
For >1,000 To 2,000, Deduct	-7.63	
For >2,000 To 5,000, Deduct	-11.61	
For >5,000, Deduct	-18.29	
33 01 30 71-0010 LF Lining 24" Pipe With Rib Loc.....	213.29	
For >500 To 1,000, Deduct	-4.72	
For >1,000 To 2,000, Deduct	-9.33	
For >2,000 To 5,000, Deduct	-14.17	
For >5,000, Deduct	-22.48	
33 01 30 71-0011 LF Lining 27" Pipe With Rib Loc.....	255.44	
For >500 To 1,000, Deduct	-5.61	
For >1,000 To 2,000, Deduct	-11.10	
For >2,000 To 5,000, Deduct	-16.84	
For >5,000, Deduct	-26.80	
33 01 30 71-0012 LF Lining 30" Pipe With Rib Loc.....	303.00	
For >500 To 1,000, Deduct	-6.62	
For >1,000 To 2,000, Deduct	-13.10	
For >2,000 To 5,000, Deduct	-19.86	
For >5,000, Deduct	-31.70	
33 01 30 71-0013 LF Lining 36" Pipe With Rib Loc.....	386.26	
For >500 To 1,000, Deduct	-8.36	
For >1,000 To 2,000, Deduct	-16.55	
For >2,000 To 5,000, Deduct	-25.07	
For >5,000, Deduct	-40.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0014 LF Lining 42" Pipe With Rib Loc	480.92	
For >500 To 1,000, Deduct	-10.34	
For >1,000 To 2,000, Deduct	-20.50	
For >2,000 To 5,000, Deduct	-31.02	
For >5,000, Deduct	-49.89	
33 01 30 71-0015 LF Lining 48" Pipe With Rib Loc	588.61	
For >500 To 1,000, Deduct	-12.61	
For >1,000 To 2,000, Deduct	-25.02	
For >2,000 To 5,000, Deduct	-37.84	
For >5,000, Deduct	-60.96	
33 01 30 71-0016 LF Lining 54" Pipe With Rib Loc	696.08	
For >500 To 1,000, Deduct	-14.93	
For >1,000 To 2,000, Deduct	-29.61	
For >2,000 To 5,000, Deduct	-44.79	
For >5,000, Deduct	-72.13	
33 01 30 71-0017 LF Lining 60" Pipe With Rib Loc	822.04	
For >500 To 1,000, Deduct	-17.82	
For >1,000 To 2,000, Deduct	-35.29	
For >2,000 To 5,000, Deduct	-53.45	
For >5,000, Deduct	-85.64	
33 01 30 71-0018 LF Lining 66" Pipe With Rib Loc	978.10	
For >500 To 1,000, Deduct	-21.72	
For >1,000 To 2,000, Deduct	-42.91	
For >2,000 To 5,000, Deduct	-65.17	
For >5,000, Deduct	-103.21	
33 01 30 71-0019 LF Lining 72" Pipe With Rib Loc	1,185.67	
For >500 To 1,000, Deduct	-27.50	
For >1,000 To 2,000, Deduct	-54.05	
For >2,000 To 5,000, Deduct	-82.49	
For >5,000, Deduct	-128.02	
33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane <small>(33 01 30 71-0001)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0021 Mobilization And Setup For Spray Applied Structural Polyurethane Lining <small>(33 01 30 71-0020)</small>		
33 01 30 71-0022 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,657.18	
33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0024 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	49.42	
For Up To 75, Add	10.78	
For >75 To 150, Add	4.94	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.60	
For >2,000 To 5,000, Deduct	-4.04	
For >5,000, Deduct	-5.84	
33 01 30 71-0025 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	57.66	
For Up To 75, Add	12.58	
For >75 To 150, Add	5.77	
For >500 To 1,000, Deduct	-1.57	
For >1,000 To 2,000, Deduct	-3.04	
For >2,000 To 5,000, Deduct	-4.71	
For >5,000, Deduct	-6.81	
33 01 30 71-0026 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	65.90	
For Up To 75, Add	14.37	
For >75 To 150, Add	6.59	
For >500 To 1,000, Deduct	-1.79	
For >1,000 To 2,000, Deduct	-3.47	
For >2,000 To 5,000, Deduct	-5.38	
For >5,000, Deduct	-7.78	
33 01 30 71-0027 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.14	
For Up To 75, Add	16.17	
For >75 To 150, Add	7.41	
For >500 To 1,000, Deduct	-2.02	
For >1,000 To 2,000, Deduct	-3.90	
For >2,000 To 5,000, Deduct	-6.06	
For >5,000, Deduct	-8.76	
33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	82.37	
For Up To 75, Add	17.96	
For >75 To 150, Add	8.24	
For >500 To 1,000, Deduct	-2.24	
For >1,000 To 2,000, Deduct	-4.34	
For >2,000 To 5,000, Deduct	-6.73	
For >5,000, Deduct	-9.73	
33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	90.61	
For Up To 75, Add	19.76	
For >75 To 150, Add	9.06	
For >500 To 1,000, Deduct	-2.47	
For >1,000 To 2,000, Deduct	-4.77	
For >2,000 To 5,000, Deduct	-7.40	
For >5,000, Deduct	-10.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	98.84	
For Up To 75, Add	21.56	
For >75 To 150, Add	9.88	
For >500 To 1,000, Deduct	-2.69	
For >1,000 To 2,000, Deduct	-5.20	
For >2,000 To 5,000, Deduct	-8.08	
For >5,000, Deduct	-11.67	
33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	107.08	
For Up To 75, Add	23.35	
For >75 To 150, Add	10.71	
For >500 To 1,000, Deduct	-2.92	
For >1,000 To 2,000, Deduct	-5.64	
For >2,000 To 5,000, Deduct	-8.75	
For >5,000, Deduct	-12.64	
33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	115.32	
For Up To 75, Add	25.15	
For >75 To 150, Add	11.53	
For >500 To 1,000, Deduct	-3.14	
For >1,000 To 2,000, Deduct	-6.07	
For >2,000 To 5,000, Deduct	-9.42	
For >5,000, Deduct	-13.62	
33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	123.56	
For Up To 75, Add	26.95	
For >75 To 150, Add	12.36	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-6.51	
For >2,000 To 5,000, Deduct	-10.10	
For >5,000, Deduct	-14.59	
33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	131.79	
For Up To 75, Add	28.74	
For >75 To 150, Add	13.18	
For >500 To 1,000, Deduct	-3.59	
For >1,000 To 2,000, Deduct	-6.94	
For >2,000 To 5,000, Deduct	-10.77	
For >5,000, Deduct	-15.56	
33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.03	
For Up To 75, Add	30.54	
For >75 To 150, Add	14.00	
For >500 To 1,000, Deduct	-3.81	
For >1,000 To 2,000, Deduct	-7.37	
For >2,000 To 5,000, Deduct	-11.44	
For >5,000, Deduct	-16.54	
33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	148.26	
For Up To 75, Add	32.33	
For >75 To 150, Add	14.83	
For >500 To 1,000, Deduct	-4.04	
For >1,000 To 2,000, Deduct	-7.81	
For >2,000 To 5,000, Deduct	-12.11	
For >5,000, Deduct	-17.51	
33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	156.51	
For Up To 75, Add	34.13	
For >75 To 150, Add	15.65	
For >500 To 1,000, Deduct	-4.26	
For >1,000 To 2,000, Deduct	-8.24	
For >2,000 To 5,000, Deduct	-12.79	
For >5,000, Deduct	-18.48	
33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	164.74	
For Up To 75, Add	35.93	
For >75 To 150, Add	16.47	
For >500 To 1,000, Deduct	-4.49	
For >1,000 To 2,000, Deduct	-8.67	
For >2,000 To 5,000, Deduct	-13.46	
For >5,000, Deduct	-19.45	
33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane.....	5.25	
33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0041 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	66.17	
For Up To 75, Add	14.18	
For >75 To 150, Add	6.62	
For >500 To 1,000, Deduct	-1.70	
For >1,000 To 2,000, Deduct	-3.31	
For >2,000 To 5,000, Deduct	-5.10	
For >5,000, Deduct	-7.56	
33 01 30 71-0042 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	77.19	
For Up To 75, Add	16.54	
For >75 To 150, Add	7.72	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-3.86	
For >2,000 To 5,000, Deduct	-5.95	
For >5,000, Deduct	-8.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0043 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	88.22	
For Up To 75, Add	18.90	
For >75 To 150, Add	8.82	
For >500 To 1,000, Deduct	-2.27	
For >1,000 To 2,000, Deduct	-4.41	
For >2,000 To 5,000, Deduct	-6.80	
For >5,000, Deduct	-10.08	
33 01 30 71-0044 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	99.24	
For Up To 75, Add	21.26	
For >75 To 150, Add	9.92	
For >500 To 1,000, Deduct	-2.55	
For >1,000 To 2,000, Deduct	-4.96	
For >2,000 To 5,000, Deduct	-7.65	
For >5,000, Deduct	-11.34	
33 01 30 71-0045 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	110.28	
For Up To 75, Add	23.62	
For >75 To 150, Add	11.03	
For >500 To 1,000, Deduct	-2.83	
For >1,000 To 2,000, Deduct	-5.51	
For >2,000 To 5,000, Deduct	-8.50	
For >5,000, Deduct	-12.60	
33 01 30 71-0046 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	121.30	
For Up To 75, Add	25.98	
For >75 To 150, Add	12.13	
For >500 To 1,000, Deduct	-3.12	
For >1,000 To 2,000, Deduct	-6.06	
For >2,000 To 5,000, Deduct	-9.35	
For >5,000, Deduct	-13.85	
33 01 30 71-0047 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	132.33	
For Up To 75, Add	28.35	
For >75 To 150, Add	13.23	
For >500 To 1,000, Deduct	-3.40	
For >1,000 To 2,000, Deduct	-6.61	
For >2,000 To 5,000, Deduct	-10.20	
For >5,000, Deduct	-15.11	
33 01 30 71-0048 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	143.36	
For Up To 75, Add	30.71	
For >75 To 150, Add	14.34	
For >500 To 1,000, Deduct	-3.68	
For >1,000 To 2,000, Deduct	-7.16	
For >2,000 To 5,000, Deduct	-11.05	
For >5,000, Deduct	-16.37	
33 01 30 71-0049 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	154.39	
For Up To 75, Add	33.07	
For >75 To 150, Add	15.44	
For >500 To 1,000, Deduct	-3.97	
For >1,000 To 2,000, Deduct	-7.71	
For >2,000 To 5,000, Deduct	-11.90	
For >5,000, Deduct	-17.63	
33 01 30 71-0050 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	165.41	
For Up To 75, Add	35.43	
For >75 To 150, Add	16.54	
For >500 To 1,000, Deduct	-4.25	
For >1,000 To 2,000, Deduct	-8.26	
For >2,000 To 5,000, Deduct	-12.75	
For >5,000, Deduct	-18.89	
33 01 30 71-0051 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	176.45	
For Up To 75, Add	37.80	
For >75 To 150, Add	17.65	
For >500 To 1,000, Deduct	-4.53	
For >1,000 To 2,000, Deduct	-8.81	
For >2,000 To 5,000, Deduct	-13.60	
For >5,000, Deduct	-20.15	
33 01 30 71-0052 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	187.48	
For Up To 75, Add	40.16	
For >75 To 150, Add	18.75	
For >500 To 1,000, Deduct	-4.82	
For >1,000 To 2,000, Deduct	-9.37	
For >2,000 To 5,000, Deduct	-14.45	
For >5,000, Deduct	-21.41	
33 01 30 71-0053 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	198.50	
For Up To 75, Add	42.52	
For >75 To 150, Add	19.85	
For >500 To 1,000, Deduct	-5.10	
For >1,000 To 2,000, Deduct	-9.92	
For >2,000 To 5,000, Deduct	-15.30	
For >5,000, Deduct	-22.67	
33 01 30 71-0054 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	209.52	
For Up To 75, Add	44.88	
For >75 To 150, Add	20.95	
For >500 To 1,000, Deduct	-5.38	
For >1,000 To 2,000, Deduct	-10.47	
For >2,000 To 5,000, Deduct	-16.15	
For >5,000, Deduct	-23.93	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	220.56	
For Up To 75, Add	47.25	
For >75 To 150, Add	22.06	
For >500 To 1,000, Deduct	-5.67	
For >1,000 To 2,000, Deduct	-11.02	
For >2,000 To 5,000, Deduct	-17.00	
For >5,000, Deduct	-25.19	
33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane.....	7.02	
33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	82.89	
For Up To 75, Add	17.57	
For >75 To 150, Add	8.29	
For >500 To 1,000, Deduct	-2.05	
For >1,000 To 2,000, Deduct	-4.01	
For >2,000 To 5,000, Deduct	-6.16	
For >5,000, Deduct	-9.28	
33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	96.72	
For Up To 75, Add	20.50	
For >75 To 150, Add	9.67	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,000, Deduct	-4.68	
For >2,000 To 5,000, Deduct	-7.19	
For >5,000, Deduct	-10.83	
33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	110.52	
For Up To 75, Add	23.42	
For >75 To 150, Add	11.05	
For >500 To 1,000, Deduct	-2.74	
For >1,000 To 2,000, Deduct	-5.34	
For >2,000 To 5,000, Deduct	-8.22	
For >5,000, Deduct	-12.37	
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	124.35	
For Up To 75, Add	26.36	
For >75 To 150, Add	12.44	
For >500 To 1,000, Deduct	-3.08	
For >1,000 To 2,000, Deduct	-6.01	
For >2,000 To 5,000, Deduct	-9.24	
For >5,000, Deduct	-13.92	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	138.18	
For Up To 75, Add	29.29	
For >75 To 150, Add	13.82	
For >500 To 1,000, Deduct	-3.42	
For >1,000 To 2,000, Deduct	-6.68	
For >2,000 To 5,000, Deduct	-10.27	
For >5,000, Deduct	-15.47	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	151.98	
For Up To 75, Add	32.21	
For >75 To 150, Add	15.20	
For >500 To 1,000, Deduct	-3.77	
For >1,000 To 2,000, Deduct	-7.35	
For >2,000 To 5,000, Deduct	-11.30	
For >5,000, Deduct	-17.01	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	165.81	
For Up To 75, Add	35.14	
For >75 To 150, Add	16.58	
For >500 To 1,000, Deduct	-4.11	
For >1,000 To 2,000, Deduct	-8.02	
For >2,000 To 5,000, Deduct	-12.33	
For >5,000, Deduct	-18.56	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	179.61	
For Up To 75, Add	38.07	
For >75 To 150, Add	17.96	
For >500 To 1,000, Deduct	-4.45	
For >1,000 To 2,000, Deduct	-8.69	
For >2,000 To 5,000, Deduct	-13.35	
For >5,000, Deduct	-20.11	
33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	193.44	
For Up To 75, Add	41.00	
For >75 To 150, Add	19.34	
For >500 To 1,000, Deduct	-4.79	
For >1,000 To 2,000, Deduct	-9.36	
For >2,000 To 5,000, Deduct	-14.38	
For >5,000, Deduct	-21.66	
33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	207.24	
For Up To 75, Add	43.92	
For >75 To 150, Add	20.72	
For >500 To 1,000, Deduct	-5.14	
For >1,000 To 2,000, Deduct	-10.02	
For >2,000 To 5,000, Deduct	-15.41	
For >5,000, Deduct	-23.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0068 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	221.07	
<i>For Up To 75, Add</i>	46.86	
<i>For >75 To 150, Add</i>	22.11	
<i>For >500 To 1,000, Deduct</i>	-5.48	
<i>For >1,000 To 2,000, Deduct</i>	-10.69	
<i>For >2,000 To 5,000, Deduct</i>	-16.43	
<i>For >5,000, Deduct</i>	-24.75	
33 01 30 71-0069 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	234.90	
<i>For Up To 75, Add</i>	49.79	
<i>For >75 To 150, Add</i>	23.49	
<i>For >500 To 1,000, Deduct</i>	-5.82	
<i>For >1,000 To 2,000, Deduct</i>	-11.36	
<i>For >2,000 To 5,000, Deduct</i>	-17.46	
<i>For >5,000, Deduct</i>	-26.30	
33 01 30 71-0070 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	248.70	
<i>For Up To 75, Add</i>	52.71	
<i>For >75 To 150, Add</i>	24.87	
<i>For >500 To 1,000, Deduct</i>	-6.16	
<i>For >1,000 To 2,000, Deduct</i>	-12.03	
<i>For >2,000 To 5,000, Deduct</i>	-18.49	
<i>For >5,000, Deduct</i>	-27.84	
33 01 30 71-0071 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	262.53	
<i>For Up To 75, Add</i>	55.64	
<i>For >75 To 150, Add</i>	26.25	
<i>For >500 To 1,000, Deduct</i>	-6.51	
<i>For >1,000 To 2,000, Deduct</i>	-12.70	
<i>For >2,000 To 5,000, Deduct</i>	-19.52	
<i>For >5,000, Deduct</i>	-29.39	
33 01 30 71-0072 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	276.33	
<i>For Up To 75, Add</i>	58.57	
<i>For >75 To 150, Add</i>	27.63	
<i>For >500 To 1,000, Deduct</i>	-6.85	
<i>For >1,000 To 2,000, Deduct</i>	-13.36	
<i>For >2,000 To 5,000, Deduct</i>	-20.54	
<i>For >5,000, Deduct</i>	-30.93	
33 01 30 71-0073 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane	8.79	
33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0075 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	99.72	
<i>For Up To 75, Add</i>	20.99	
<i>For >75 To 150, Add</i>	9.97	
<i>For >500 To 1,000, Deduct</i>	-2.41	
<i>For >1,000 To 2,000, Deduct</i>	-4.72	
<i>For >2,000 To 5,000, Deduct</i>	-7.23	
<i>For >5,000, Deduct</i>	-11.01	
33 01 30 71-0076 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	116.33	
<i>For Up To 75, Add</i>	24.48	
<i>For >75 To 150, Add</i>	11.63	
<i>For >500 To 1,000, Deduct</i>	-2.81	
<i>For >1,000 To 2,000, Deduct</i>	-5.50	
<i>For >2,000 To 5,000, Deduct</i>	-8.44	
<i>For >5,000, Deduct</i>	-12.85	
33 01 30 71-0077 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	132.96	
<i>For Up To 75, Add</i>	27.98	
<i>For >75 To 150, Add</i>	13.30	
<i>For >500 To 1,000, Deduct</i>	-3.22	
<i>For >1,000 To 2,000, Deduct</i>	-6.29	
<i>For >2,000 To 5,000, Deduct</i>	-9.65	
<i>For >5,000, Deduct</i>	-14.69	
33 01 30 71-0078 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	149.57	
<i>For Up To 75, Add</i>	31.48	
<i>For >75 To 150, Add</i>	14.96	
<i>For >500 To 1,000, Deduct</i>	-3.62	
<i>For >1,000 To 2,000, Deduct</i>	-7.08	
<i>For >2,000 To 5,000, Deduct</i>	-10.85	
<i>For >5,000, Deduct</i>	-16.52	
33 01 30 71-0079 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	166.20	
<i>For Up To 75, Add</i>	34.98	
<i>For >75 To 150, Add</i>	16.62	
<i>For >500 To 1,000, Deduct</i>	-4.02	
<i>For >1,000 To 2,000, Deduct</i>	-7.86	
<i>For >2,000 To 5,000, Deduct</i>	-12.06	
<i>For >5,000, Deduct</i>	-18.36	
33 01 30 71-0080 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	182.81	
<i>For Up To 75, Add</i>	38.47	
<i>For >75 To 150, Add</i>	18.28	
<i>For >500 To 1,000, Deduct</i>	-4.42	
<i>For >1,000 To 2,000, Deduct</i>	-8.65	
<i>For >2,000 To 5,000, Deduct</i>	-13.26	
<i>For >5,000, Deduct</i>	-20.19	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	199.43	
For Up To 75, Add	41.97	
For >75 To 150, Add	19.94	
For >500 To 1,000, Deduct	-4.82	
For >1,000 To 2,000, Deduct	-9.44	
For >2,000 To 5,000, Deduct	-14.47	
For >5,000, Deduct	-22.03	
33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	216.05	
For Up To 75, Add	45.47	
For >75 To 150, Add	21.61	
For >500 To 1,000, Deduct	-5.22	
For >1,000 To 2,000, Deduct	-10.22	
For >2,000 To 5,000, Deduct	-15.67	
For >5,000, Deduct	-23.86	
33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	232.67	
For Up To 75, Add	48.97	
For >75 To 150, Add	23.27	
For >500 To 1,000, Deduct	-5.63	
For >1,000 To 2,000, Deduct	-11.01	
For >2,000 To 5,000, Deduct	-16.88	
For >5,000, Deduct	-25.70	
33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	249.29	
For Up To 75, Add	52.46	
For >75 To 150, Add	24.93	
For >500 To 1,000, Deduct	-6.03	
For >1,000 To 2,000, Deduct	-11.80	
For >2,000 To 5,000, Deduct	-18.08	
For >5,000, Deduct	-27.54	
33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	265.91	
For Up To 75, Add	55.96	
For >75 To 150, Add	26.59	
For >500 To 1,000, Deduct	-6.43	
For >1,000 To 2,000, Deduct	-12.58	
For >2,000 To 5,000, Deduct	-19.29	
For >5,000, Deduct	-29.37	
33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	282.53	
For Up To 75, Add	59.46	
For >75 To 150, Add	28.25	
For >500 To 1,000, Deduct	-6.83	
For >1,000 To 2,000, Deduct	-13.37	
For >2,000 To 5,000, Deduct	-20.50	
For >5,000, Deduct	-31.21	
33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	299.15	
For Up To 75, Add	62.96	
For >75 To 150, Add	29.92	
For >500 To 1,000, Deduct	-7.23	
For >1,000 To 2,000, Deduct	-14.16	
For >2,000 To 5,000, Deduct	-21.70	
For >5,000, Deduct	-33.04	
33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	315.77	
For Up To 75, Add	66.46	
For >75 To 150, Add	31.58	
For >500 To 1,000, Deduct	-7.64	
For >1,000 To 2,000, Deduct	-14.94	
For >2,000 To 5,000, Deduct	-22.91	
For >5,000, Deduct	-34.88	
33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	332.39	
For Up To 75, Add	69.95	
For >75 To 150, Add	33.24	
For >500 To 1,000, Deduct	-8.04	
For >1,000 To 2,000, Deduct	-15.73	
For >2,000 To 5,000, Deduct	-24.11	
For >5,000, Deduct	-36.71	
33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane.....	10.58	
33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0092 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	116.65	
For Up To 75, Add	24.43	
For >75 To 150, Add	11.67	
For >500 To 1,000, Deduct	-2.77	
For >1,000 To 2,000, Deduct	-5.43	
For >2,000 To 5,000, Deduct	-8.32	
For >5,000, Deduct	-12.76	
33 01 30 71-0093 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	136.08	
For Up To 75, Add	28.50	
For >75 To 150, Add	13.61	
For >500 To 1,000, Deduct	-3.23	
For >1,000 To 2,000, Deduct	-6.34	
For >2,000 To 5,000, Deduct	-9.70	
For >5,000, Deduct	-14.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0094 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	155.54	
<i>For Up To 75, Add</i>	32.57	
<i>For >75 To 150, Add</i>	15.55	
<i>For >500 To 1,000, Deduct</i>	-3.70	
<i>For >1,000 To 2,000, Deduct</i>	-7.25	
<i>For >2,000 To 5,000, Deduct</i>	-11.09	
<i>For >5,000, Deduct</i>	-17.02	
33 01 30 71-0095 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	174.97	
<i>For Up To 75, Add</i>	36.64	
<i>For >75 To 150, Add</i>	17.50	
<i>For >500 To 1,000, Deduct</i>	-4.16	
<i>For >1,000 To 2,000, Deduct</i>	-8.15	
<i>For >2,000 To 5,000, Deduct</i>	-12.47	
<i>For >5,000, Deduct</i>	-19.14	
33 01 30 71-0096 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	194.42	
<i>For Up To 75, Add</i>	40.71	
<i>For >75 To 150, Add</i>	19.44	
<i>For >500 To 1,000, Deduct</i>	-4.62	
<i>For >1,000 To 2,000, Deduct</i>	-9.06	
<i>For >2,000 To 5,000, Deduct</i>	-13.86	
<i>For >5,000, Deduct</i>	-21.27	
33 01 30 71-0097 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	213.86	
<i>For Up To 75, Add</i>	44.78	
<i>For >75 To 150, Add</i>	21.39	
<i>For >500 To 1,000, Deduct</i>	-5.08	
<i>For >1,000 To 2,000, Deduct</i>	-9.96	
<i>For >2,000 To 5,000, Deduct</i>	-15.25	
<i>For >5,000, Deduct</i>	-23.40	
33 01 30 71-0098 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	233.29	
<i>For Up To 75, Add</i>	48.85	
<i>For >75 To 150, Add</i>	23.33	
<i>For >500 To 1,000, Deduct</i>	-5.54	
<i>For >1,000 To 2,000, Deduct</i>	-10.87	
<i>For >2,000 To 5,000, Deduct</i>	-16.63	
<i>For >5,000, Deduct</i>	-25.52	
33 01 30 71-0099 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	252.73	
<i>For Up To 75, Add</i>	52.92	
<i>For >75 To 150, Add</i>	25.27	
<i>For >500 To 1,000, Deduct</i>	-6.01	
<i>For >1,000 To 2,000, Deduct</i>	-11.77	
<i>For >2,000 To 5,000, Deduct</i>	-18.02	
<i>For >5,000, Deduct</i>	-27.65	
33 01 30 71-0100 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	272.17	
<i>For Up To 75, Add</i>	56.99	
<i>For >75 To 150, Add</i>	27.22	
<i>For >500 To 1,000, Deduct</i>	-6.47	
<i>For >1,000 To 2,000, Deduct</i>	-12.68	
<i>For >2,000 To 5,000, Deduct</i>	-19.40	
<i>For >5,000, Deduct</i>	-29.78	
33 01 30 71-0101 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	291.62	
<i>For Up To 75, Add</i>	61.07	
<i>For >75 To 150, Add</i>	29.16	
<i>For >500 To 1,000, Deduct</i>	-6.93	
<i>For >1,000 To 2,000, Deduct</i>	-13.59	
<i>For >2,000 To 5,000, Deduct</i>	-20.79	
<i>For >5,000, Deduct</i>	-31.91	
33 01 30 71-0102 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	311.05	
<i>For Up To 75, Add</i>	65.14	
<i>For >75 To 150, Add</i>	31.11	
<i>For >500 To 1,000, Deduct</i>	-7.39	
<i>For >1,000 To 2,000, Deduct</i>	-14.49	
<i>For >2,000 To 5,000, Deduct</i>	-22.17	
<i>For >5,000, Deduct</i>	-34.03	
33 01 30 71-0103 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	330.51	
<i>For Up To 75, Add</i>	69.21	
<i>For >75 To 150, Add</i>	33.05	
<i>For >500 To 1,000, Deduct</i>	-7.85	
<i>For >1,000 To 2,000, Deduct</i>	-15.40	
<i>For >2,000 To 5,000, Deduct</i>	-23.56	
<i>For >5,000, Deduct</i>	-36.16	
33 01 30 71-0104 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	349.94	
<i>For Up To 75, Add</i>	73.28	
<i>For >75 To 150, Add</i>	34.99	
<i>For >500 To 1,000, Deduct</i>	-8.32	
<i>For >1,000 To 2,000, Deduct</i>	-16.30	
<i>For >2,000 To 5,000, Deduct</i>	-24.95	
<i>For >5,000, Deduct</i>	-38.29	
33 01 30 71-0105 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	369.38	
<i>For Up To 75, Add</i>	77.35	
<i>For >75 To 150, Add</i>	36.94	
<i>For >500 To 1,000, Deduct</i>	-8.78	
<i>For >1,000 To 2,000, Deduct</i>	-17.21	
<i>For >2,000 To 5,000, Deduct</i>	-26.33	
<i>For >5,000, Deduct</i>	-40.41	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	388.82	
For Up To 75, Add	81.42	
For >75 To 150, Add	38.88	
For >500 To 1,000, Deduct	-9.24	
For >1,000 To 2,000, Deduct	-18.11	
For >2,000 To 5,000, Deduct	-27.72	
For >5,000, Deduct	-42.54	
33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane.....	12.37	
33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	150.58	
For Up To 75, Add	31.34	
For >75 To 150, Add	15.06	
For >500 To 1,000, Deduct	-3.50	
For >1,000 To 2,000, Deduct	-6.88	
For >2,000 To 5,000, Deduct	-10.50	
For >5,000, Deduct	-16.28	
33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	175.67	
For Up To 75, Add	36.56	
For >75 To 150, Add	17.57	
For >500 To 1,000, Deduct	-4.08	
For >1,000 To 2,000, Deduct	-8.02	
For >2,000 To 5,000, Deduct	-12.25	
For >5,000, Deduct	-18.99	
33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	200.76	
For Up To 75, Add	41.78	
For >75 To 150, Add	20.08	
For >500 To 1,000, Deduct	-4.67	
For >1,000 To 2,000, Deduct	-9.17	
For >2,000 To 5,000, Deduct	-14.00	
For >5,000, Deduct	-21.70	
33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	225.87	
For Up To 75, Add	47.00	
For >75 To 150, Add	22.59	
For >500 To 1,000, Deduct	-5.25	
For >1,000 To 2,000, Deduct	-10.32	
For >2,000 To 5,000, Deduct	-15.75	
For >5,000, Deduct	-24.42	
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	250.95	
For Up To 75, Add	52.22	
For >75 To 150, Add	25.10	
For >500 To 1,000, Deduct	-5.83	
For >1,000 To 2,000, Deduct	-11.46	
For >2,000 To 5,000, Deduct	-17.50	
For >5,000, Deduct	-27.13	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	276.05	
For Up To 75, Add	57.45	
For >75 To 150, Add	27.61	
For >500 To 1,000, Deduct	-6.42	
For >1,000 To 2,000, Deduct	-12.61	
For >2,000 To 5,000, Deduct	-19.25	
For >5,000, Deduct	-29.84	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	301.15	
For Up To 75, Add	62.67	
For >75 To 150, Add	30.12	
For >500 To 1,000, Deduct	-7.00	
For >1,000 To 2,000, Deduct	-13.75	
For >2,000 To 5,000, Deduct	-21.00	
For >5,000, Deduct	-32.55	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	326.25	
For Up To 75, Add	67.89	
For >75 To 150, Add	32.63	
For >500 To 1,000, Deduct	-7.58	
For >1,000 To 2,000, Deduct	-14.90	
For >2,000 To 5,000, Deduct	-22.75	
For >5,000, Deduct	-35.27	
33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	351.34	
For Up To 75, Add	73.11	
For >75 To 150, Add	35.13	
For >500 To 1,000, Deduct	-8.16	
For >1,000 To 2,000, Deduct	-16.05	
For >2,000 To 5,000, Deduct	-24.49	
For >5,000, Deduct	-37.98	
33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	376.43	
For Up To 75, Add	78.33	
For >75 To 150, Add	37.64	
For >500 To 1,000, Deduct	-8.75	
For >1,000 To 2,000, Deduct	-17.19	
For >2,000 To 5,000, Deduct	-26.24	
For >5,000, Deduct	-40.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0119 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	401.53	
<i>For Up To 75, Add</i>	83.56	
<i>For >75 To 150, Add</i>	40.15	
<i>For >500 To 1,000, Deduct</i>	-9.33	
<i>For >1,000 To 2,000, Deduct</i>	-18.34	
<i>For >2,000 To 5,000, Deduct</i>	-27.99	
<i>For >5,000, Deduct</i>	-43.40	
33 01 30 71-0120 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	426.63	
<i>For Up To 75, Add</i>	88.78	
<i>For >75 To 150, Add</i>	42.66	
<i>For >500 To 1,000, Deduct</i>	-9.91	
<i>For >1,000 To 2,000, Deduct</i>	-19.48	
<i>For >2,000 To 5,000, Deduct</i>	-29.74	
<i>For >5,000, Deduct</i>	-46.12	
33 01 30 71-0121 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	451.71	
<i>For Up To 75, Add</i>	94.00	
<i>For >75 To 150, Add</i>	45.17	
<i>For >500 To 1,000, Deduct</i>	-10.50	
<i>For >1,000 To 2,000, Deduct</i>	-20.63	
<i>For >2,000 To 5,000, Deduct</i>	-31.49	
<i>For >5,000, Deduct</i>	-48.83	
33 01 30 71-0122 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	476.82	
<i>For Up To 75, Add</i>	99.23	
<i>For >75 To 150, Add</i>	47.68	
<i>For >500 To 1,000, Deduct</i>	-11.08	
<i>For >1,000 To 2,000, Deduct</i>	-21.78	
<i>For >2,000 To 5,000, Deduct</i>	-33.24	
<i>For >5,000, Deduct</i>	-51.54	
33 01 30 71-0123 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	501.91	
<i>For Up To 75, Add</i>	104.45	
<i>For >75 To 150, Add</i>	50.19	
<i>For >500 To 1,000, Deduct</i>	-11.66	
<i>For >1,000 To 2,000, Deduct</i>	-22.92	
<i>For >2,000 To 5,000, Deduct</i>	-34.99	
<i>For >5,000, Deduct</i>	-54.26	
33 01 30 71-0124 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	15.98	
33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane <small>(33 01 30 71-0020)</small>		
<i>Note: Two part structural polyurethane.</i>		
33 01 30 71-0126 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	184.82	
<i>For Up To 75, Add</i>	38.32	
<i>For >75 To 150, Add</i>	18.48	
<i>For >500 To 1,000, Deduct</i>	-4.24	
<i>For >1,000 To 2,000, Deduct</i>	-8.34	
<i>For >2,000 To 5,000, Deduct</i>	-12.71	
<i>For >5,000, Deduct</i>	-19.84	
33 01 30 71-0127 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	215.63	
<i>For Up To 75, Add</i>	44.71	
<i>For >75 To 150, Add</i>	21.56	
<i>For >500 To 1,000, Deduct</i>	-4.94	
<i>For >1,000 To 2,000, Deduct</i>	-9.73	
<i>For >2,000 To 5,000, Deduct</i>	-14.83	
<i>For >5,000, Deduct</i>	-23.14	
33 01 30 71-0128 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	246.43	
<i>For Up To 75, Add</i>	51.09	
<i>For >75 To 150, Add</i>	24.64	
<i>For >500 To 1,000, Deduct</i>	-5.65	
<i>For >1,000 To 2,000, Deduct</i>	-11.12	
<i>For >2,000 To 5,000, Deduct</i>	-16.95	
<i>For >5,000, Deduct</i>	-26.45	
33 01 30 71-0129 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	277.24	
<i>For Up To 75, Add</i>	57.48	
<i>For >75 To 150, Add</i>	27.72	
<i>For >500 To 1,000, Deduct</i>	-6.36	
<i>For >1,000 To 2,000, Deduct</i>	-12.51	
<i>For >2,000 To 5,000, Deduct</i>	-19.07	
<i>For >5,000, Deduct</i>	-29.76	
33 01 30 71-0130 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	308.05	
<i>For Up To 75, Add</i>	63.87	
<i>For >75 To 150, Add</i>	30.81	
<i>For >500 To 1,000, Deduct</i>	-7.06	
<i>For >1,000 To 2,000, Deduct</i>	-13.90	
<i>For >2,000 To 5,000, Deduct</i>	-21.19	
<i>For >5,000, Deduct</i>	-33.06	
33 01 30 71-0131 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	338.85	
<i>For Up To 75, Add</i>	70.25	
<i>For >75 To 150, Add</i>	33.89	
<i>For >500 To 1,000, Deduct</i>	-7.77	
<i>For >1,000 To 2,000, Deduct</i>	-15.29	
<i>For >2,000 To 5,000, Deduct</i>	-23.31	
<i>For >5,000, Deduct</i>	-36.37	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	369.66	
For Up To 75, Add	76.64	
For >75 To 150, Add	36.97	
For >500 To 1,000, Deduct	-8.48	
For >1,000 To 2,000, Deduct	-16.68	
For >2,000 To 5,000, Deduct	-25.43	
For >5,000, Deduct	-39.68	
33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	400.46	
For Up To 75, Add	83.03	
For >75 To 150, Add	40.05	
For >500 To 1,000, Deduct	-9.18	
For >1,000 To 2,000, Deduct	-18.07	
For >2,000 To 5,000, Deduct	-27.55	
For >5,000, Deduct	-42.98	
33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	431.27	
For Up To 75, Add	89.42	
For >75 To 150, Add	43.13	
For >500 To 1,000, Deduct	-9.89	
For >1,000 To 2,000, Deduct	-19.46	
For >2,000 To 5,000, Deduct	-29.67	
For >5,000, Deduct	-46.29	
33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	462.07	
For Up To 75, Add	95.80	
For >75 To 150, Add	46.21	
For >500 To 1,000, Deduct	-10.60	
For >1,000 To 2,000, Deduct	-20.85	
For >2,000 To 5,000, Deduct	-31.79	
For >5,000, Deduct	-49.59	
33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	492.88	
For Up To 75, Add	102.19	
For >75 To 150, Add	49.29	
For >500 To 1,000, Deduct	-11.30	
For >1,000 To 2,000, Deduct	-22.24	
For >2,000 To 5,000, Deduct	-33.91	
For >5,000, Deduct	-52.90	
33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	523.68	
For Up To 75, Add	108.57	
For >75 To 150, Add	52.37	
For >500 To 1,000, Deduct	-12.01	
For >1,000 To 2,000, Deduct	-23.63	
For >2,000 To 5,000, Deduct	-36.03	
For >5,000, Deduct	-56.21	
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	554.48	
For Up To 75, Add	114.96	
For >75 To 150, Add	55.45	
For >500 To 1,000, Deduct	-12.72	
For >1,000 To 2,000, Deduct	-25.02	
For >2,000 To 5,000, Deduct	-38.15	
For >5,000, Deduct	-59.51	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	585.29	
For Up To 75, Add	121.35	
For >75 To 150, Add	58.53	
For >500 To 1,000, Deduct	-13.42	
For >1,000 To 2,000, Deduct	-26.41	
For >2,000 To 5,000, Deduct	-40.27	
For >5,000, Deduct	-62.82	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	616.09	
For Up To 75, Add	127.73	
For >75 To 150, Add	61.61	
For >500 To 1,000, Deduct	-14.13	
For >1,000 To 2,000, Deduct	-27.80	
For >2,000 To 5,000, Deduct	-42.38	
For >5,000, Deduct	-66.12	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane.....	19.61	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)
 Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)

33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,512.85
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,521.42
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,782.13
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	5,042.84
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	756.43
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,260.71
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,575.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining Underground Pipelines Cured In-Place Pipe (CIPP).....	2,017.14	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP) Note: Need to mix wet material in bag prior to installation.	1,260.71	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	3,025.71	
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	5,042.84	
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" To 72" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	7,564.26	
 33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) <small>(33 01 30 72-0001)</small> Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	19.08	
For Vinylster Resin, Add	4.09	
For Epoxy Resin, Add	0.48	
For Up To >10, Add	42.64	
For >10 To 25, Add	34.56	
For >25 To 50, Add	21.03	
For >50 To 100, Add	10.51	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.09	
For >2,000 To 5,000, Deduct	-4.01	
For >5,000, Deduct	-6.46	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	22.29	
For Vinylster Resin, Add	6.34	
For Epoxy Resin, Add	0.75	
For Up To >10, Add	44.25	
For >10 To 25, Add	35.36	
For >25 To 50, Add	21.67	
For >50 To 100, Add	10.84	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.33	
For >2,000 To 5,000, Deduct	-4.40	
For >5,000, Deduct	-7.11	
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	25.50	
For Vinylster Resin, Add	8.58	
For Epoxy Resin, Add	1.01	
For Up To >10, Add	45.85	
For >10 To 25, Add	36.17	
For >25 To 50, Add	22.31	
For >50 To 100, Add	11.16	
For >500 To 1,000, Deduct	-1.61	
For >1,000 To 2,000, Deduct	-2.57	
For >2,000 To 5,000, Deduct	-4.78	
For >5,000, Deduct	-7.75	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.17	
For Vinylster Resin, Add	13.07	
For Epoxy Resin, Add	1.54	
For Up To >10, Add	52.84	
For >10 To 25, Add	40.92	
For >25 To 50, Add	25.48	
For >50 To 100, Add	12.74	
For >500 To 1,000, Deduct	-2.02	
For >1,000 To 2,000, Deduct	-3.21	
For >2,000 To 5,000, Deduct	-5.87	
For >5,000, Deduct	-9.53	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	40.84	
For Vinylster Resin, Add	17.56	
For Epoxy Resin, Add	2.07	
For Up To >10, Add	59.82	
For >10 To 25, Add	45.67	
For >25 To 50, Add	28.66	
For >50 To 100, Add	14.33	
For >500 To 1,000, Deduct	-2.44	
For >1,000 To 2,000, Deduct	-3.85	
For >2,000 To 5,000, Deduct	-6.95	
For >5,000, Deduct	-11.32	
 33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	25.05	
For Vinylster Resin, Add	8.27	
For Epoxy Resin, Add	0.97	
For Up To >10, Add	45.63	
For >10 To 25, Add	36.05	
For >25 To 50, Add	22.22	
For >50 To 100, Add	11.11	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-2.54	
For >2,000 To 5,000, Deduct	-4.73	
For >5,000, Deduct	-7.66	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	29.33	
For Vinylster Resin, Add	11.26	
For Epoxy Resin, Add	1.33	
For Up To >10, Add	47.77	
For >10 To 25, Add	37.12	
For >25 To 50, Add	23.08	
For >50 To 100, Add	11.54	
For >500 To 1,000, Deduct	-1.80	
For >1,000 To 2,000, Deduct	-2.86	
For >2,000 To 5,000, Deduct	-5.24	
For >5,000, Deduct	-8.51	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	39.14	
For Vinylster Resin, Add	17.25	
For Epoxy Resin, Add	2.03	
For Up To >10, Add	55.82	
For >10 To 25, Add	42.41	
For >25 To 50, Add	26.68	
For >50 To 100, Add	13.34	
For >500 To 1,000, Deduct	-2.32	
For >1,000 To 2,000, Deduct	-3.66	
For >2,000 To 5,000, Deduct	-6.58	
For >5,000, Deduct	-10.73	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	48.95	
For Vinylster Resin, Add	23.23	
For Epoxy Resin, Add	2.74	
For Up To >10, Add	63.88	
For >10 To 25, Add	47.70	
For >25 To 50, Add	30.28	
For >50 To 100, Add	15.14	
For >500 To 1,000, Deduct	-2.84	
For >1,000 To 2,000, Deduct	-4.46	
For >2,000 To 5,000, Deduct	-7.92	
For >5,000, Deduct	-12.94	
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	58.88	
For Vinylster Resin, Add	29.22	
For Epoxy Resin, Add	3.44	
For Up To >10, Add	72.29	
For >10 To 25, Add	53.29	
For >25 To 50, Add	34.06	
For >50 To 100, Add	17.03	
For >500 To 1,000, Deduct	-3.37	
For >1,000 To 2,000, Deduct	-5.27	
For >2,000 To 5,000, Deduct	-9.29	
For >5,000, Deduct	-15.20	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	69.19	
For Vinylster Resin, Add	35.20	
For Epoxy Resin, Add	4.15	
For Up To >10, Add	81.87	
For >10 To 25, Add	59.85	
For >25 To 50, Add	38.42	
For >50 To 100, Add	19.21	
For >500 To 1,000, Deduct	-3.93	
For >1,000 To 2,000, Deduct	-6.13	
For >2,000 To 5,000, Deduct	-10.76	
For >5,000, Deduct	-17.62	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	33.04	
For Vinylster Resin, Add	13.86	
For Epoxy Resin, Add	1.63	
For Up To >10, Add	49.62	
For >10 To 25, Add	38.05	
For >25 To 50, Add	23.82	
For >50 To 100, Add	11.91	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-3.14	
For >2,000 To 5,000, Deduct	-5.69	
For >5,000, Deduct	-9.26	
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	44.98	
For Vinylster Resin, Add	21.34	
For Epoxy Resin, Add	2.51	
For Up To >10, Add	58.74	
For >10 To 25, Add	43.87	
For >25 To 50, Add	27.85	
For >50 To 100, Add	13.92	
For >500 To 1,000, Deduct	-2.61	
For >1,000 To 2,000, Deduct	-4.10	
For >2,000 To 5,000, Deduct	-7.28	
For >5,000, Deduct	-11.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	56.93	
For Vinylster Resin, Add	28.82	
For Epoxy Resin, Add	3.40	
For Up To >10, Add	67.87	
For >10 To 25, Add	49.69	
For >25 To 50, Add	31.87	
For >50 To 100, Add	15.94	
For >500 To 1,000, Deduct	-3.24	
For >1,000 To 2,000, Deduct	-5.06	
For >2,000 To 5,000, Deduct	-8.88	
For >5,000, Deduct	-14.54	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	68.99	
For Vinylster Resin, Add	36.30	
For Epoxy Resin, Add	4.28	
For Up To >10, Add	77.35	
For >10 To 25, Add	55.81	
For >25 To 50, Add	36.08	
For >50 To 100, Add	18.04	
For >500 To 1,000, Deduct	-3.88	
For >1,000 To 2,000, Deduct	-6.03	
For >2,000 To 5,000, Deduct	-10.51	
For >5,000, Deduct	-17.23	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	81.45	
For Vinylster Resin, Add	43.78	
For Epoxy Resin, Add	5.16	
For Up To >10, Add	88.00	
For >10 To 25, Add	62.91	
For >25 To 50, Add	40.87	
For >50 To 100, Add	20.44	
For >500 To 1,000, Deduct	-4.55	
For >1,000 To 2,000, Deduct	-7.05	
For >2,000 To 5,000, Deduct	-12.23	
For >5,000, Deduct	-20.07	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	100.00	
For Vinylster Resin, Add	55.00	
For Epoxy Resin, Add	6.48	
For Up To >10, Add	103.58	
For >10 To 25, Add	73.22	
For >25 To 50, Add	47.86	
For >50 To 100, Add	23.93	
For >500 To 1,000, Deduct	-5.54	
For >1,000 To 2,000, Deduct	-8.57	
For >2,000 To 5,000, Deduct	-14.79	
For >5,000, Deduct	-24.29	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	118.81	
For Vinylster Resin, Add	66.22	
For Epoxy Resin, Add	7.80	
For Up To >10, Add	119.93	
For >10 To 25, Add	84.18	
For >25 To 50, Add	55.24	
For >50 To 100, Add	27.62	
For >500 To 1,000, Deduct	-6.55	
For >1,000 To 2,000, Deduct	-10.12	
For >2,000 To 5,000, Deduct	-17.40	
For >5,000, Deduct	-28.60	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	50.70	
For Vinylster Resin, Add	25.34	
For Epoxy Resin, Add	2.99	
For Up To >10, Add	61.60	
For >10 To 25, Add	45.30	
For >25 To 50, Add	28.99	
For >50 To 100, Add	14.50	
For >500 To 1,000, Deduct	-2.90	
For >1,000 To 2,000, Deduct	-4.53	
For >2,000 To 5,000, Deduct	-7.97	
For >5,000, Deduct	-13.04	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	64.78	
For Vinylster Resin, Add	34.31	
For Epoxy Resin, Add	4.04	
For Up To >10, Add	71.79	
For >10 To 25, Add	51.66	
For >25 To 50, Add	33.44	
For >50 To 100, Add	16.72	
For >500 To 1,000, Deduct	-3.63	
For >1,000 To 2,000, Deduct	-5.65	
For >2,000 To 5,000, Deduct	-9.82	
For >5,000, Deduct	-16.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	78.99	
For Vinlyester Resin, Add	43.30	
For Epoxy Resin, Add	5.10	
For Up To >10, Add	82.35	
For >10 To 25, Add	58.31	
For >25 To 50, Add	38.08	
For >50 To 100, Add	19.04	
For >500 To 1,000, Deduct	-4.38	
For >1,000 To 2,000, Deduct	-6.78	
For >2,000 To 5,000, Deduct	-11.71	
For >5,000, Deduct	-19.23	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	93.58	
For Vinlyester Resin, Add	52.27	
For Epoxy Resin, Add	6.16	
For Up To >10, Add	94.07	
For >10 To 25, Add	65.94	
For >25 To 50, Add	43.30	
For >50 To 100, Add	21.65	
For >500 To 1,000, Deduct	-5.15	
For >1,000 To 2,000, Deduct	-7.96	
For >2,000 To 5,000, Deduct	-13.69	
For >5,000, Deduct	-22.50	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	115.34	
For Vinlyester Resin, Add	65.74	
For Epoxy Resin, Add	7.75	
For Up To >10, Add	111.25	
For >10 To 25, Add	77.05	
For >25 To 50, Add	50.93	
For >50 To 100, Add	25.46	
For >500 To 1,000, Deduct	-6.30	
For >1,000 To 2,000, Deduct	-9.72	
For >2,000 To 5,000, Deduct	-16.63	
For >5,000, Deduct	-27.35	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	137.35	
For Vinlyester Resin, Add	79.20	
For Epoxy Resin, Add	9.33	
For Up To >10, Add	129.20	
For >10 To 25, Add	88.81	
For >25 To 50, Add	58.94	
For >50 To 100, Add	29.47	
For >500 To 1,000, Deduct	-7.47	
For >1,000 To 2,000, Deduct	-11.51	
For >2,000 To 5,000, Deduct	-19.63	
For >5,000, Deduct	-32.31	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	158.60	
For Vinlyester Resin, Add	92.66	
For Epoxy Resin, Add	10.92	
For Up To >10, Add	144.88	
For >10 To 25, Add	98.67	
For >25 To 50, Add	65.82	
For >50 To 100, Add	32.91	
For >500 To 1,000, Deduct	-8.59	
For >1,000 To 2,000, Deduct	-13.21	
For >2,000 To 5,000, Deduct	-22.44	
For >5,000, Deduct	-36.97	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.23	
For Vinlyester Resin, Add	106.13	
For Epoxy Resin, Add	12.51	
For Up To >10, Add	161.67	
For >10 To 25, Add	109.45	
For >25 To 50, Add	73.25	
For >50 To 100, Add	36.63	
For >500 To 1,000, Deduct	-9.73	
For >1,000 To 2,000, Deduct	-14.95	
For >2,000 To 5,000, Deduct	-25.35	
For >5,000, Deduct	-41.77	
33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	130.54	
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	130.54	
For Vinlyester Resin, Add	76.38	
For Epoxy Resin, Add	9.00	
For Up To >10, Add	118.85	
For >10 To 25, Add	80.85	
For >25 To 50, Add	53.97	
For >50 To 100, Add	26.98	
For >500 To 1,000, Deduct	-7.06	
For >1,000 To 2,000, Deduct	-10.86	
For >2,000 To 5,000, Deduct	-18.45	
For >5,000, Deduct	-30.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	155.76	
For Vinylster Resin, Add	92.09	
For Epoxy Resin, Add	10.85	
For Up To >10, Add	138.41	
For >10 To 25, Add	93.41	
For >25 To 50, Add	62.63	
For >50 To 100, Add	31.31	
For >500 To 1,000, Deduct	-8.39	
For >1,000 To 2,000, Deduct	-12.89	
For >2,000 To 5,000, Deduct	-21.84	
For >5,000, Deduct	-35.99	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	180.23	
For Vinylster Resin, Add	107.80	
For Epoxy Resin, Add	12.71	
For Up To >10, Add	155.69	
For >10 To 25, Add	104.08	
For >25 To 50, Add	70.15	
For >50 To 100, Add	35.07	
For >500 To 1,000, Deduct	-9.67	
For >1,000 To 2,000, Deduct	-14.83	
For >2,000 To 5,000, Deduct	-25.04	
For >5,000, Deduct	-41.29	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	205.06	
For Vinylster Resin, Add	123.51	
For Epoxy Resin, Add	14.56	
For Up To >10, Add	174.08	
For >10 To 25, Add	115.66	
For >25 To 50, Add	78.22	
For >50 To 100, Add	39.11	
For >500 To 1,000, Deduct	-10.97	
For >1,000 To 2,000, Deduct	-16.81	
For >2,000 To 5,000, Deduct	-28.33	
For >5,000, Deduct	-46.74	
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	230.40	
For Vinylster Resin, Add	139.22	
For Epoxy Resin, Add	16.41	
For Up To >10, Add	194.00	
For >10 To 25, Add	128.52	
For >25 To 50, Add	87.06	
For >50 To 100, Add	43.53	
For >500 To 1,000, Deduct	-12.31	
For >1,000 To 2,000, Deduct	-18.86	
For >2,000 To 5,000, Deduct	-31.75	
For >5,000, Deduct	-52.38	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	256.36	
For Vinylster Resin, Add	154.92	
For Epoxy Resin, Add	18.26	
For Up To >10, Add	215.78	
For >10 To 25, Add	142.93	
For >25 To 50, Add	96.82	
For >50 To 100, Add	48.41	
For >500 To 1,000, Deduct	-13.69	
For >1,000 To 2,000, Deduct	-20.98	
For >2,000 To 5,000, Deduct	-35.32	
For >5,000, Deduct	-58.28	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	305.66	
For Vinylster Resin, Add	186.34	
For Epoxy Resin, Add	21.96	
For Up To >10, Add	251.48	
For >10 To 25, Add	165.20	
For >25 To 50, Add	112.43	
For >50 To 100, Add	56.22	
For >500 To 1,000, Deduct	-16.27	
For >1,000 To 2,000, Deduct	-24.90	
For >2,000 To 5,000, Deduct	-41.81	
For >5,000, Deduct	-69.02	
33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	145.63	
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	86.94	
For Vinylster Resin, Add	10.25	
For Epoxy Resin, Add	126.39	
For Up To >10, Add	84.63	
For >10 To 25, Add	56.99	
For >25 To 50, Add	28.49	
For >50 To 100, Add	-7.82	
For >500 To 1,000, Deduct	-11.99	
For >1,000 To 2,000, Deduct	-20.26	
For >2,000 To 5,000, Deduct	-33.41	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	174.06	
For Vinlyester Resin, Add	104.90	
For Epoxy Resin, Add	12.36	
For Up To >10, Add	147.56	
For >10 To 25, Add	97.99	
For >25 To 50, Add	66.29	
For >50 To 100, Add	33.14	
For >500 To 1,000, Deduct	-9.31	
For >1,000 To 2,000, Deduct	-14.27	
For >2,000 To 5,000, Deduct	-24.03	
For >5,000, Deduct	-39.65	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	201.72	
For Vinlyester Resin, Add	122.84	
For Epoxy Resin, Add	14.48	
For Up To >10, Add	166.44	
For >10 To 25, Add	109.45	
For >25 To 50, Add	74.44	
For >50 To 100, Add	37.22	
For >500 To 1,000, Deduct	-10.74	
For >1,000 To 2,000, Deduct	-16.44	
For >2,000 To 5,000, Deduct	-27.62	
For >5,000, Deduct	-45.59	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	229.76	
For Vinlyester Resin, Add	140.80	
For Epoxy Resin, Add	16.59	
For Up To >10, Add	186.43	
For >10 To 25, Add	121.84	
For >25 To 50, Add	83.16	
For >50 To 100, Add	41.58	
For >500 To 1,000, Deduct	-12.20	
For >1,000 To 2,000, Deduct	-18.66	
For >2,000 To 5,000, Deduct	-31.29	
For >5,000, Deduct	-51.68	
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	258.31	
For Vinlyester Resin, Add	158.75	
For Epoxy Resin, Add	18.71	
For Up To >10, Add	207.96	
For >10 To 25, Add	135.50	
For >25 To 50, Add	92.64	
For >50 To 100, Add	46.32	
For >500 To 1,000, Deduct	-13.70	
For >1,000 To 2,000, Deduct	-20.95	
For >2,000 To 5,000, Deduct	-35.09	
For >5,000, Deduct	-57.97	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	287.47	
For Vinlyester Resin, Add	176.70	
For Epoxy Resin, Add	20.83	
For Up To >10, Add	231.34	
For >10 To 25, Add	150.71	
For >25 To 50, Add	103.05	
For >50 To 100, Add	51.52	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,000, Deduct	-23.31	
For >2,000 To 5,000, Deduct	-39.05	
For >5,000, Deduct	-64.50	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	343.19	
For Vinlyester Resin, Add	212.61	
For Epoxy Resin, Add	25.06	
For Up To >10, Add	270.25	
For >10 To 25, Add	174.58	
For >25 To 50, Add	119.94	
For >50 To 100, Add	59.97	
For >500 To 1,000, Deduct	-18.15	
For >1,000 To 2,000, Deduct	-27.71	
For >2,000 To 5,000, Deduct	-46.31	
For >5,000, Deduct	-76.53	
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	400.03	
For Vinlyester Resin, Add	248.51	
For Epoxy Resin, Add	29.29	
For Up To >10, Add	312.54	
For >10 To 25, Add	201.28	
For >25 To 50, Add	138.52	
For >50 To 100, Add	69.26	
For >500 To 1,000, Deduct	-21.13	
For >1,000 To 2,000, Deduct	-32.25	
For >2,000 To 5,000, Deduct	-53.85	
For >5,000, Deduct	-89.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	458.88	
For Vinylster Resin, Add	284.42	
For Epoxy Resin, Add	33.52	
For Up To >10, Add	360.87	
For >10 To 25, Add	233.00	
For >25 To 50, Add	160.12	
For >50 To 100, Add	80.06	
For >500 To 1,000, Deduct	-24.26	
For >1,000 To 2,000, Deduct	-37.04	
For >2,000 To 5,000, Deduct	-61.90	
For >5,000, Deduct	-102.29	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	160.58	
For Vinylster Resin, Add	97.41	
For Epoxy Resin, Add	11.48	
For Up To >10, Add	133.87	
For >10 To 25, Add	88.36	
For >25 To 50, Add	59.98	
For >50 To 100, Add	29.99	
For >500 To 1,000, Deduct	-8.56	
For >1,000 To 2,000, Deduct	-13.12	
For >2,000 To 5,000, Deduct	-22.06	
For >5,000, Deduct	-36.40	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	192.22	
For Vinylster Resin, Add	117.61	
For Epoxy Resin, Add	13.86	
For Up To >10, Add	156.64	
For >10 To 25, Add	102.53	
For >25 To 50, Add	69.92	
For >50 To 100, Add	34.96	
For >500 To 1,000, Deduct	-10.22	
For >1,000 To 2,000, Deduct	-15.63	
For >2,000 To 5,000, Deduct	-26.21	
For >5,000, Deduct	-43.29	
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	223.09	
For Vinylster Resin, Add	137.80	
For Epoxy Resin, Add	16.24	
For Up To >10, Add	177.12	
For >10 To 25, Add	114.79	
For >25 To 50, Add	78.72	
For >50 To 100, Add	39.36	
For >500 To 1,000, Deduct	-11.81	
For >1,000 To 2,000, Deduct	-18.04	
For >2,000 To 5,000, Deduct	-30.18	
For >5,000, Deduct	-49.86	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.33	
For Vinylster Resin, Add	158.00	
For Epoxy Resin, Add	18.62	
For Up To >10, Add	198.72	
For >10 To 25, Add	127.98	
For >25 To 50, Add	88.07	
For >50 To 100, Add	44.04	
For >500 To 1,000, Deduct	-13.43	
For >1,000 To 2,000, Deduct	-20.51	
For >2,000 To 5,000, Deduct	-34.24	
For >5,000, Deduct	-56.59	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	286.09	
For Vinylster Resin, Add	178.20	
For Epoxy Resin, Add	21.00	
For Up To >10, Add	221.85	
For >10 To 25, Add	142.44	
For >25 To 50, Add	98.19	
For >50 To 100, Add	49.10	
For >500 To 1,000, Deduct	-15.09	
For >1,000 To 2,000, Deduct	-23.03	
For >2,000 To 5,000, Deduct	-38.43	
For >5,000, Deduct	-63.52	
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	318.46	
For Vinylster Resin, Add	198.39	
For Epoxy Resin, Add	23.38	
For Up To >10, Add	246.83	
For >10 To 25, Add	158.46	
For >25 To 50, Add	109.24	
For >50 To 100, Add	54.62	
For >500 To 1,000, Deduct	-16.80	
For >1,000 To 2,000, Deduct	-25.64	
For >2,000 To 5,000, Deduct	-42.77	
For >5,000, Deduct	-70.70	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	380.59	
For Vinlyester Resin, Add	238.79	
For Epoxy Resin, Add	28.14	
For Up To >10, Add	288.95	
For >10 To 25, Add	183.93	
For >25 To 50, Add	127.42	
For >50 To 100, Add	63.71	
For >500 To 1,000, Deduct	-20.02	
For >1,000 To 2,000, Deduct	-30.52	
For >2,000 To 5,000, Deduct	-50.80	
For >5,000, Deduct	-84.01	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.84	
For Vinlyester Resin, Add	279.18	
For Epoxy Resin, Add	32.90	
For Up To >10, Add	334.45	
For >10 To 25, Add	212.23	
For >25 To 50, Add	147.28	
For >50 To 100, Add	73.64	
For >500 To 1,000, Deduct	-23.32	
For >1,000 To 2,000, Deduct	-35.54	
For >2,000 To 5,000, Deduct	-59.11	
For >5,000, Deduct	-97.77	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	509.11	
For Vinlyester Resin, Add	319.58	
For Epoxy Resin, Add	37.66	
For Up To >10, Add	385.98	
For >10 To 25, Add	245.56	
For >25 To 50, Add	170.16	
For >50 To 100, Add	85.08	
For >500 To 1,000, Deduct	-26.77	
For >1,000 To 2,000, Deduct	-40.81	
For >2,000 To 5,000, Deduct	-67.93	
For >5,000, Deduct	-112.34	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	175.41	
For Vinlyester Resin, Add	107.79	
For Epoxy Resin, Add	12.70	
For Up To >10, Add	141.28	
For >10 To 25, Add	92.07	
For >25 To 50, Add	62.94	
For >50 To 100, Add	31.47	
For >500 To 1,000, Deduct	-9.31	
For >1,000 To 2,000, Deduct	-14.23	
For >2,000 To 5,000, Deduct	-23.84	
For >5,000, Deduct	-39.37	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	210.25	
For Vinlyester Resin, Add	130.23	
For Epoxy Resin, Add	15.35	
For Up To >10, Add	165.65	
For >10 To 25, Add	107.04	
For >25 To 50, Add	73.52	
For >50 To 100, Add	36.76	
For >500 To 1,000, Deduct	-11.12	
For >1,000 To 2,000, Deduct	-16.98	
For >2,000 To 5,000, Deduct	-28.38	
For >5,000, Deduct	-46.89	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	244.33	
For Vinlyester Resin, Add	152.67	
For Epoxy Resin, Add	17.99	
For Up To >10, Add	187.74	
For >10 To 25, Add	120.10	
For >25 To 50, Add	82.97	
For >50 To 100, Add	41.48	
For >500 To 1,000, Deduct	-12.87	
For >1,000 To 2,000, Deduct	-19.64	
For >2,000 To 5,000, Deduct	-32.73	
For >5,000, Deduct	-54.11	
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	278.78	
For Vinlyester Resin, Add	175.11	
For Epoxy Resin, Add	20.64	
For Up To >10, Add	210.94	
For >10 To 25, Add	134.09	
For >25 To 50, Add	92.96	
For >50 To 100, Add	46.48	
For >500 To 1,000, Deduct	-14.65	
For >1,000 To 2,000, Deduct	-22.34	
For >2,000 To 5,000, Deduct	-37.17	
For >5,000, Deduct	-61.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.74	
For Vinylster Resin, Add	197.55	
For Epoxy Resin, Add	23.28	
For Up To >10, Add	235.67	
For >10 To 25, Add	149.36	
For >25 To 50, Add	103.72	
For >50 To 100, Add	51.86	
For >500 To 1,000, Deduct	-16.48	
For >1,000 To 2,000, Deduct	-25.11	
For >2,000 To 5,000, Deduct	-41.75	
For >5,000, Deduct	-69.05	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	349.32	
For Vinylster Resin, Add	220.00	
For Epoxy Resin, Add	25.93	
For Up To >10, Add	262.26	
For >10 To 25, Add	166.17	
For >25 To 50, Add	115.42	
For >50 To 100, Add	57.71	
For >500 To 1,000, Deduct	-18.34	
For >1,000 To 2,000, Deduct	-27.95	
For >2,000 To 5,000, Deduct	-46.47	
For >5,000, Deduct	-76.87	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	417.86	
For Vinylster Resin, Add	264.88	
For Epoxy Resin, Add	31.22	
For Up To >10, Add	307.58	
For >10 To 25, Add	193.25	
For >25 To 50, Add	134.87	
For >50 To 100, Add	67.44	
For >500 To 1,000, Deduct	-21.88	
For >1,000 To 2,000, Deduct	-33.31	
For >2,000 To 5,000, Deduct	-55.27	
For >5,000, Deduct	-91.46	
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	487.53	
For Vinylster Resin, Add	309.76	
For Epoxy Resin, Add	36.51	
For Up To >10, Add	356.29	
For >10 To 25, Add	223.16	
For >25 To 50, Add	156.02	
For >50 To 100, Add	78.01	
For >500 To 1,000, Deduct	-25.50	
For >1,000 To 2,000, Deduct	-38.82	
For >2,000 To 5,000, Deduct	-64.35	
For >5,000, Deduct	-106.51	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	559.20	
For Vinylster Resin, Add	354.64	
For Epoxy Resin, Add	41.80	
For Up To >10, Add	411.03	
For >10 To 25, Add	258.08	
For >25 To 50, Add	180.18	
For >50 To 100, Add	90.09	
For >500 To 1,000, Deduct	-29.27	
For >1,000 To 2,000, Deduct	-44.57	
For >2,000 To 5,000, Deduct	-73.94	
For >5,000, Deduct	-122.35	
33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	228.16	
For Vinylster Resin, Add	142.77	
For Epoxy Resin, Add	16.83	
For Up To >10, Add	174.61	
For >10 To 25, Add	111.51	
For >25 To 50, Add	77.11	
For >50 To 100, Add	38.55	
For >500 To 1,000, Deduct	-12.01	
For >1,000 To 2,000, Deduct	-18.32	
For >2,000 To 5,000, Deduct	-30.53	
For >5,000, Deduct	-50.47	
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.45	
For Vinylster Resin, Add	167.45	
For Epoxy Resin, Add	19.74	
For Up To >10, Add	198.30	
For >10 To 25, Add	125.38	
For >25 To 50, Add	87.19	
For >50 To 100, Add	43.59	
For >500 To 1,000, Deduct	-13.93	
For >1,000 To 2,000, Deduct	-21.22	
For >2,000 To 5,000, Deduct	-35.26	
For >5,000, Deduct	-58.34	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	303.10	
For Vinlyester Resin, Add	192.14	
For Epoxy Resin, Add	22.64	
For Up To >10, Add	223.10	
For >10 To 25, Add	140.17	
For >25 To 50, Add	97.83	
For >50 To 100, Add	48.91	
For >500 To 1,000, Deduct	-15.87	
For >1,000 To 2,000, Deduct	-24.16	
For >2,000 To 5,000, Deduct	-40.09	
For >5,000, Deduct	-66.34	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	341.27	
For Vinlyester Resin, Add	216.83	
For Epoxy Resin, Add	25.55	
For Up To >10, Add	249.44	
For >10 To 25, Add	156.24	
For >25 To 50, Add	109.23	
For >50 To 100, Add	54.62	
For >500 To 1,000, Deduct	-17.85	
For >1,000 To 2,000, Deduct	-27.17	
For >2,000 To 5,000, Deduct	-45.05	
For >5,000, Deduct	-74.56	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	380.05	
For Vinlyester Resin, Add	241.51	
For Epoxy Resin, Add	28.46	
For Up To >10, Add	277.63	
For >10 To 25, Add	173.85	
For >25 To 50, Add	121.56	
For >50 To 100, Add	60.78	
For >500 To 1,000, Deduct	-19.88	
For >1,000 To 2,000, Deduct	-30.26	
For >2,000 To 5,000, Deduct	-50.16	
For >5,000, Deduct	-83.02	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	455.00	
For Vinlyester Resin, Add	290.88	
For Epoxy Resin, Add	34.28	
For Up To >10, Add	326.15	
For >10 To 25, Add	202.54	
For >25 To 50, Add	142.30	
For >50 To 100, Add	71.15	
For >500 To 1,000, Deduct	-23.74	
For >1,000 To 2,000, Deduct	-36.10	
For >2,000 To 5,000, Deduct	-59.73	
For >5,000, Deduct	-98.89	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	531.08	
For Vinlyester Resin, Add	340.25	
For Epoxy Resin, Add	40.10	
For Up To >10, Add	378.07	
For >10 To 25, Add	234.04	
For >25 To 50, Add	164.73	
For >50 To 100, Add	82.36	
For >500 To 1,000, Deduct	-27.68	
For >1,000 To 2,000, Deduct	-42.08	
For >2,000 To 5,000, Deduct	-69.58	
For >5,000, Deduct	-115.22	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	609.17	
For Vinlyester Resin, Add	389.62	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	436.01	
For >10 To 25, Add	270.58	
For >25 To 50, Add	190.18	
For >50 To 100, Add	95.09	
For >500 To 1,000, Deduct	-31.77	
For >1,000 To 2,000, Deduct	-48.32	
For >2,000 To 5,000, Deduct	-79.93	
For >5,000, Deduct	-132.35	
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	686.38	
For Vinlyester Resin, Add	438.99	
For Epoxy Resin, Add	51.74	
For Up To >10, Add	491.32	
For >10 To 25, Add	304.91	
For >25 To 50, Add	214.30	
For >50 To 100, Add	107.15	
For >500 To 1,000, Deduct	-35.80	
For >1,000 To 2,000, Deduct	-54.44	
For >2,000 To 5,000, Deduct	-90.07	
For >5,000, Deduct	-149.13	

33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	246.58	
For Vinyl ester Resin, Add	155.22	
For Epoxy Resin, Add	18.29	
For Up To >10, Add	185.39	
For >10 To 25, Add	117.54	
For >25 To 50, Add	81.61	
For >50 To 100, Add	40.80	
For >500 To 1,000, Deduct	-12.95	
For >1,000 To 2,000, Deduct	-19.74	
For >2,000 To 5,000, Deduct	-32.82	
For >5,000, Deduct	-54.28	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	287.19	
For Vinyl ester Resin, Add	182.15	
For Epoxy Resin, Add	21.47	
For Up To >10, Add	211.05	
For >10 To 25, Add	132.50	
For >25 To 50, Add	92.51	
For >50 To 100, Add	46.26	
For >500 To 1,000, Deduct	-15.03	
For >1,000 To 2,000, Deduct	-22.89	
For >2,000 To 5,000, Deduct	-37.97	
For >5,000, Deduct	-62.83	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	328.05	
For Vinyl ester Resin, Add	209.08	
For Epoxy Resin, Add	24.64	
For Up To >10, Add	237.45	
For >10 To 25, Add	148.10	
For >25 To 50, Add	103.79	
For >50 To 100, Add	51.90	
For >500 To 1,000, Deduct	-17.14	
For >1,000 To 2,000, Deduct	-26.07	
For >2,000 To 5,000, Deduct	-43.18	
For >5,000, Deduct	-71.48	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	369.55	
For Vinyl ester Resin, Add	236.01	
For Epoxy Resin, Add	27.81	
For Up To >10, Add	265.78	
For >10 To 25, Add	165.29	
For >25 To 50, Add	116.03	
For >50 To 100, Add	58.02	
For >500 To 1,000, Deduct	-19.29	
For >1,000 To 2,000, Deduct	-29.34	
For >2,000 To 5,000, Deduct	-48.56	
For >5,000, Deduct	-80.39	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	411.55	
For Vinyl ester Resin, Add	262.93	
For Epoxy Resin, Add	30.99	
For Up To >10, Add	295.60	
For >10 To 25, Add	183.73	
For >25 To 50, Add	129.02	
For >50 To 100, Add	64.51	
For >500 To 1,000, Deduct	-21.48	
For >1,000 To 2,000, Deduct	-32.66	
For >2,000 To 5,000, Deduct	-54.06	
For >5,000, Deduct	-89.50	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	493.91	
For Vinyl ester Resin, Add	316.79	
For Epoxy Resin, Add	37.34	
For Up To >10, Add	350.33	
For >10 To 25, Add	216.52	
For >25 To 50, Add	152.54	
For >50 To 100, Add	76.27	
For >500 To 1,000, Deduct	-25.73	
For >1,000 To 2,000, Deduct	-39.11	
For >2,000 To 5,000, Deduct	-64.64	
For >5,000, Deduct	-107.05	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.79	
For Vinyl ester Resin, Add	370.66	
For Epoxy Resin, Add	43.68	
For Up To >10, Add	406.60	
For >10 To 25, Add	250.58	
For >25 To 50, Add	176.82	
For >50 To 100, Add	88.41	
For >500 To 1,000, Deduct	-30.02	
For >1,000 To 2,000, Deduct	-45.62	
For >2,000 To 5,000, Deduct	-75.36	
For >5,000, Deduct	-124.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	661.67	
For Vinlyester Resin, Add	424.52	
For Epoxy Resin, Add	50.03	
For Up To >10, Add	468.89	
For >10 To 25, Add	289.66	
For >25 To 50, Add	204.12	
For >50 To 100, Add	102.06	
For >500 To 1,000, Deduct	-34.46	
For >1,000 To 2,000, Deduct	-52.39	
For >2,000 To 5,000, Deduct	-86.58	
For >5,000, Deduct	-143.38	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	745.67	
For Vinlyester Resin, Add	478.37	
For Epoxy Resin, Add	56.38	
For Up To >10, Add	528.54	
For >10 To 25, Add	326.55	
For >25 To 50, Add	230.10	
For >50 To 100, Add	115.05	
For >500 To 1,000, Deduct	-38.84	
For >1,000 To 2,000, Deduct	-59.04	
For >2,000 To 5,000, Deduct	-97.58	
For >5,000, Deduct	-161.59	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	829.54	
For Vinlyester Resin, Add	532.23	
For Epoxy Resin, Add	62.73	
For Up To >10, Add	587.80	
For >10 To 25, Add	363.11	
For >25 To 50, Add	255.88	
For >50 To 100, Add	127.94	
For >500 To 1,000, Deduct	-43.21	
For >1,000 To 2,000, Deduct	-65.68	
For >2,000 To 5,000, Deduct	-108.54	
For >5,000, Deduct	-179.75	
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	913.92	
For Vinlyester Resin, Add	586.09	
For Epoxy Resin, Add	69.07	
For Up To >10, Add	648.59	
For >10 To 25, Add	400.94	
For >25 To 50, Add	282.43	
For >50 To 100, Add	141.21	
For >500 To 1,000, Deduct	-47.61	
For >1,000 To 2,000, Deduct	-72.38	
For >2,000 To 5,000, Deduct	-119.63	
For >5,000, Deduct	-198.11	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	997.92	
For Vinlyester Resin, Add	639.95	
For Epoxy Resin, Add	75.42	
For Up To >10, Add	708.24	
For >10 To 25, Add	437.83	
For >25 To 50, Add	308.41	
For >50 To 100, Add	154.20	
For >500 To 1,000, Deduct	-51.99	
For >1,000 To 2,000, Deduct	-79.03	
For >2,000 To 5,000, Deduct	-130.63	
For >5,000, Deduct	-216.33	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	265.23	
For Vinlyester Resin, Add	167.57	
For Epoxy Resin, Add	19.75	
For Up To >10, Add	197.22	
For >10 To 25, Add	124.45	
For >25 To 50, Add	86.64	
For >50 To 100, Add	43.32	
For >500 To 1,000, Deduct	-13.91	
For >1,000 To 2,000, Deduct	-21.18	
For >2,000 To 5,000, Deduct	-35.19	
For >5,000, Deduct	-58.21	
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	309.06	
For Vinlyester Resin, Add	196.75	
For Epoxy Resin, Add	23.19	
For Up To >10, Add	224.51	
For >10 To 25, Add	140.24	
For >25 To 50, Add	98.20	
For >50 To 100, Add	49.10	
For >500 To 1,000, Deduct	-16.15	
For >1,000 To 2,000, Deduct	-24.58	
For >2,000 To 5,000, Deduct	-40.73	
For >5,000, Deduct	-67.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	353.26	
For Vinylster Resin, Add	225.93	
For Epoxy Resin, Add	26.63	
For Up To >10, Add	252.91	
For >10 To 25, Add	156.96	
For >25 To 50, Add	110.32	
For >50 To 100, Add	55.16	
For >500 To 1,000, Deduct	-18.43	
For >1,000 To 2,000, Deduct	-28.02	
For >2,000 To 5,000, Deduct	-46.36	
For >5,000, Deduct	-76.75	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	397.70	
For Vinylster Resin, Add	255.09	
For Epoxy Resin, Add	30.06	
For Up To >10, Add	282.05	
For >10 To 25, Add	174.31	
For >25 To 50, Add	122.80	
For >50 To 100, Add	61.40	
For >500 To 1,000, Deduct	-20.72	
For >1,000 To 2,000, Deduct	-31.49	
For >2,000 To 5,000, Deduct	-52.05	
For >5,000, Deduct	-86.20	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.16	
For Vinylster Resin, Add	284.27	
For Epoxy Resin, Add	33.50	
For Up To >10, Add	314.23	
For >10 To 25, Add	194.18	
For >25 To 50, Add	136.81	
For >50 To 100, Add	68.41	
For >500 To 1,000, Deduct	-23.08	
For >1,000 To 2,000, Deduct	-35.09	
For >2,000 To 5,000, Deduct	-58.00	
For >5,000, Deduct	-96.04	
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	533.08	
For Vinylster Resin, Add	342.62	
For Epoxy Resin, Add	40.38	
For Up To >10, Add	375.59	
For >10 To 25, Add	231.42	
For >25 To 50, Add	163.32	
For >50 To 100, Add	81.66	
For >500 To 1,000, Deduct	-27.74	
For >1,000 To 2,000, Deduct	-42.16	
For >2,000 To 5,000, Deduct	-69.64	
For >5,000, Deduct	-115.34	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	623.36	
For Vinylster Resin, Add	400.97	
For Epoxy Resin, Add	47.26	
For Up To >10, Add	438.06	
For >10 To 25, Add	269.58	
For >25 To 50, Add	190.39	
For >50 To 100, Add	95.19	
For >500 To 1,000, Deduct	-32.43	
For >1,000 To 2,000, Deduct	-49.28	
For >2,000 To 5,000, Deduct	-81.37	
For >5,000, Deduct	-134.78	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	714.53	
For Vinylster Resin, Add	459.31	
For Epoxy Resin, Add	54.13	
For Up To >10, Add	503.19	
For >10 To 25, Add	309.97	
For >25 To 50, Add	218.79	
For >50 To 100, Add	109.39	
For >500 To 1,000, Deduct	-37.19	
For >1,000 To 2,000, Deduct	-56.51	
For >2,000 To 5,000, Deduct	-93.33	
For >5,000, Deduct	-154.58	
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.33	
For Vinylster Resin, Add	517.66	
For Epoxy Resin, Add	61.01	
For Up To >10, Add	567.19	
For >10 To 25, Add	349.41	
For >25 To 50, Add	246.62	
For >50 To 100, Add	123.31	
For >500 To 1,000, Deduct	-41.91	
For >1,000 To 2,000, Deduct	-63.69	
For >2,000 To 5,000, Deduct	-105.19	
For >5,000, Deduct	-174.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	896.12	
For Vinlyester Resin, Add	576.01	
For Epoxy Resin, Add	67.89	
For Up To >10, Add	631.19	
For >10 To 25, Add	388.84	
For >25 To 50, Add	274.45	
For >50 To 100, Add	137.22	
For >500 To 1,000, Deduct	-46.64	
For >1,000 To 2,000, Deduct	-70.87	
For >2,000 To 5,000, Deduct	-117.06	
For >5,000, Deduct	-193.87	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	988.42	
For Vinlyester Resin, Add	634.35	
For Epoxy Resin, Add	74.76	
For Up To >10, Add	699.71	
For >10 To 25, Add	432.06	
For >25 To 50, Add	304.54	
For >50 To 100, Add	152.27	
For >500 To 1,000, Deduct	-51.48	
For >1,000 To 2,000, Deduct	-78.24	
For >2,000 To 5,000, Deduct	-129.30	
For >5,000, Deduct	-214.12	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,079.33	
For Vinlyester Resin, Add	692.70	
For Epoxy Resin, Add	81.64	
For Up To >10, Add	764.07	
For >10 To 25, Add	471.79	
For >25 To 50, Add	332.55	
For >50 To 100, Add	166.28	
For >500 To 1,000, Deduct	-56.21	
For >1,000 To 2,000, Deduct	-85.44	
For >2,000 To 5,000, Deduct	-141.19	
For >5,000, Deduct	-233.82	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	283.65	
For Vinlyester Resin, Add	179.84	
For Epoxy Resin, Add	21.20	
For Up To >10, Add	208.65	
For >10 To 25, Add	131.06	
For >25 To 50, Add	91.48	
For >50 To 100, Add	45.74	
For >500 To 1,000, Deduct	-14.85	
For >1,000 To 2,000, Deduct	-22.61	
For >2,000 To 5,000, Deduct	-37.51	
For >5,000, Deduct	-62.08	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	330.81	
For Vinlyester Resin, Add	211.27	
For Epoxy Resin, Add	24.90	
For Up To >10, Add	237.91	
For >10 To 25, Add	147.95	
For >25 To 50, Add	103.86	
For >50 To 100, Add	51.93	
For >500 To 1,000, Deduct	-17.27	
For >1,000 To 2,000, Deduct	-26.26	
For >2,000 To 5,000, Deduct	-43.47	
For >5,000, Deduct	-71.96	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	378.34	
For Vinlyester Resin, Add	242.68	
For Epoxy Resin, Add	28.60	
For Up To >10, Add	268.30	
For >10 To 25, Add	165.80	
For >25 To 50, Add	116.81	
For >50 To 100, Add	58.41	
For >500 To 1,000, Deduct	-19.71	
For >1,000 To 2,000, Deduct	-29.96	
For >2,000 To 5,000, Deduct	-49.52	
For >5,000, Deduct	-82.00	
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	425.74	
For Vinlyester Resin, Add	274.10	
For Epoxy Resin, Add	32.30	
For Up To >10, Add	298.30	
For >10 To 25, Add	183.32	
For >25 To 50, Add	129.57	
For >50 To 100, Add	64.78	
For >500 To 1,000, Deduct	-22.14	
For >1,000 To 2,000, Deduct	-33.64	
For >2,000 To 5,000, Deduct	-55.53	
For >5,000, Deduct	-91.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	474.53	
For Vinylster Resin, Add	305.52	
For Epoxy Resin, Add	36.01	
For Up To >10, Add	332.44	
For >10 To 25, Add	204.29	
For >25 To 50, Add	144.40	
For >50 To 100, Add	72.20	
For >500 To 1,000, Deduct	-24.68	
For >1,000 To 2,000, Deduct	-37.49	
For >2,000 To 5,000, Deduct	-61.89	
For >5,000, Deduct	-102.52	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	572.11	
For Vinylster Resin, Add	368.35	
For Epoxy Resin, Add	43.41	
For Up To >10, Add	400.78	
For >10 To 25, Add	246.28	
For >25 To 50, Add	174.08	
For >50 To 100, Add	87.04	
For >500 To 1,000, Deduct	-29.75	
For >1,000 To 2,000, Deduct	-45.20	
For >2,000 To 5,000, Deduct	-74.62	
For >5,000, Deduct	-123.60	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	669.69	
For Vinylster Resin, Add	431.19	
For Epoxy Resin, Add	50.82	
For Up To >10, Add	469.10	
For >10 To 25, Add	288.25	
For >25 To 50, Add	203.75	
For >50 To 100, Add	101.87	
For >500 To 1,000, Deduct	-34.83	
For >1,000 To 2,000, Deduct	-52.91	
For >2,000 To 5,000, Deduct	-87.34	
For >5,000, Deduct	-144.68	
33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	767.27	
For Vinylster Resin, Add	494.03	
For Epoxy Resin, Add	58.22	
For Up To >10, Add	537.44	
For >10 To 25, Add	330.24	
For >25 To 50, Add	233.43	
For >50 To 100, Add	116.72	
For >500 To 1,000, Deduct	-39.90	
For >1,000 To 2,000, Deduct	-60.62	
For >2,000 To 5,000, Deduct	-100.07	
For >5,000, Deduct	-165.76	
33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	864.86	
For Vinylster Resin, Add	556.86	
For Epoxy Resin, Add	65.63	
For Up To >10, Add	605.78	
For >10 To 25, Add	372.23	
For >25 To 50, Add	263.11	
For >50 To 100, Add	131.56	
For >500 To 1,000, Deduct	-44.98	
For >1,000 To 2,000, Deduct	-68.33	
For >2,000 To 5,000, Deduct	-112.80	
For >5,000, Deduct	-186.84	
33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	962.43	
For Vinylster Resin, Add	619.70	
For Epoxy Resin, Add	73.04	
For Up To >10, Add	674.09	
For >10 To 25, Add	414.20	
For >25 To 50, Add	292.78	
For >50 To 100, Add	146.39	
For >500 To 1,000, Deduct	-50.05	
For >1,000 To 2,000, Deduct	-76.04	
For >2,000 To 5,000, Deduct	-125.52	
For >5,000, Deduct	-207.92	
33 01 30 72-0131 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,062.79	
For Vinylster Resin, Add	682.54	
For Epoxy Resin, Add	80.44	
For Up To >10, Add	750.75	
For >10 To 25, Add	463.11	
For >25 To 50, Add	326.62	
For >50 To 100, Add	163.31	
For >500 To 1,000, Deduct	-55.33	
For >1,000 To 2,000, Deduct	-84.10	
For >2,000 To 5,000, Deduct	-138.94	
For >5,000, Deduct	-230.11	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,160.63	
For Vinlyester Resin, Add	745.37	
For Epoxy Resin, Add	87.85	
For Up To >10, Add	819.84	
For >10 To 25, Add	505.73	
For >25 To 50, Add	356.68	
For >50 To 100, Add	178.34	
For >500 To 1,000, Deduct	-60.43	
For >1,000 To 2,000, Deduct	-91.84	
For >2,000 To 5,000, Deduct	-151.73	
For >5,000, Deduct	-251.29	
33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0134 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	301.82	
For Vinlyester Resin, Add	192.03	
For Epoxy Resin, Add	22.63	
For Up To >10, Add	219.64	
For >10 To 25, Add	137.31	
For >25 To 50, Add	96.10	
For >50 To 100, Add	48.05	
For >500 To 1,000, Deduct	-15.78	
For >1,000 To 2,000, Deduct	-24.01	
For >2,000 To 5,000, Deduct	-39.79	
For >5,000, Deduct	-65.86	
33 01 30 72-0135 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	352.17	
For Vinlyester Resin, Add	225.69	
For Epoxy Resin, Add	26.60	
For Up To >10, Add	250.46	
For >10 To 25, Add	154.98	
For >25 To 50, Add	109.11	
For >50 To 100, Add	54.55	
For >500 To 1,000, Deduct	-18.35	
For >1,000 To 2,000, Deduct	-27.90	
For >2,000 To 5,000, Deduct	-46.13	
For >5,000, Deduct	-76.38	
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	403.29	
For Vinlyester Resin, Add	259.36	
For Epoxy Resin, Add	30.57	
For Up To >10, Add	283.60	
For >10 To 25, Add	174.58	
For >25 To 50, Add	123.27	
For >50 To 100, Add	61.64	
For >500 To 1,000, Deduct	-20.98	
For >1,000 To 2,000, Deduct	-31.89	
For >2,000 To 5,000, Deduct	-52.66	
For >5,000, Deduct	-87.21	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	454.78	
For Vinlyester Resin, Add	293.02	
For Epoxy Resin, Add	34.53	
For Up To >10, Add	317.84	
For >10 To 25, Add	195.10	
For >25 To 50, Add	137.99	
For >50 To 100, Add	69.00	
For >500 To 1,000, Deduct	-23.64	
For >1,000 To 2,000, Deduct	-35.92	
For >2,000 To 5,000, Deduct	-59.28	
For >5,000, Deduct	-98.19	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	507.03	
For Vinlyester Resin, Add	326.68	
For Epoxy Resin, Add	38.50	
For Up To >10, Add	354.39	
For >10 To 25, Add	217.55	
For >25 To 50, Add	153.86	
For >50 To 100, Add	76.93	
For >500 To 1,000, Deduct	-26.36	
For >1,000 To 2,000, Deduct	-40.04	
For >2,000 To 5,000, Deduct	-66.09	
For >5,000, Deduct	-109.48	
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	611.52	
For Vinlyester Resin, Add	394.00	
For Epoxy Resin, Add	46.44	
For Up To >10, Add	427.41	
For >10 To 25, Add	262.37	
For >25 To 50, Add	185.56	
For >50 To 100, Add	92.78	
For >500 To 1,000, Deduct	-31.79	
For >1,000 To 2,000, Deduct	-48.30	
For >2,000 To 5,000, Deduct	-79.71	
For >5,000, Deduct	-132.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	716.03	
For Vinylster Resin, Add	461.33	
For Epoxy Resin, Add	54.37	
For Up To >10, Add	500.49	
For >10 To 25, Add	307.24	
For >25 To 50, Add	217.29	
For >50 To 100, Add	108.65	
For >500 To 1,000, Deduct	-37.23	
For >1,000 To 2,000, Deduct	-56.55	
For >2,000 To 5,000, Deduct	-93.33	
For >5,000, Deduct	-154.60	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	820.52	
For Vinylster Resin, Add	528.65	
For Epoxy Resin, Add	62.31	
For Up To >10, Add	573.51	
For >10 To 25, Add	352.06	
For >25 To 50, Add	248.99	
For >50 To 100, Add	124.50	
For >500 To 1,000, Deduct	-42.66	
For >1,000 To 2,000, Deduct	-64.80	
For >2,000 To 5,000, Deduct	-106.95	
For >5,000, Deduct	-177.16	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	925.02	
For Vinylster Resin, Add	595.97	
For Epoxy Resin, Add	70.24	
For Up To >10, Add	646.59	
For >10 To 25, Add	396.92	
For >25 To 50, Add	280.72	
For >50 To 100, Add	140.36	
For >500 To 1,000, Deduct	-48.09	
For >1,000 To 2,000, Deduct	-73.06	
For >2,000 To 5,000, Deduct	-120.57	
For >5,000, Deduct	-199.73	
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,029.51	
For Vinylster Resin, Add	663.30	
For Epoxy Resin, Add	78.17	
For Up To >10, Add	719.61	
For >10 To 25, Add	441.74	
For >25 To 50, Add	312.42	
For >50 To 100, Add	156.21	
For >500 To 1,000, Deduct	-53.52	
For >1,000 To 2,000, Deduct	-81.31	
For >2,000 To 5,000, Deduct	-134.19	
For >5,000, Deduct	-222.29	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,136.91	
For Vinylster Resin, Add	730.63	
For Epoxy Resin, Add	86.11	
For Up To >10, Add	801.36	
For >10 To 25, Add	493.84	
For >25 To 50, Add	348.49	
For >50 To 100, Add	174.25	
For >500 To 1,000, Deduct	-59.17	
For >1,000 To 2,000, Deduct	-89.93	
For >2,000 To 5,000, Deduct	-148.54	
For >5,000, Deduct	-246.01	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,241.66	
For Vinylster Resin, Add	797.95	
For Epoxy Resin, Add	94.04	
For Up To >10, Add	875.16	
For >10 To 25, Add	539.31	
For >25 To 50, Add	380.58	
For >50 To 100, Add	190.29	
For >500 To 1,000, Deduct	-64.63	
For >1,000 To 2,000, Deduct	-98.21	
For >2,000 To 5,000, Deduct	-162.22	
For >5,000, Deduct	-268.68	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....	319.73	
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	204.13	
For Vinylster Resin, Add	24.06	
For Epoxy Resin, Add	230.17	
For Up To >10, Add	143.20	
For >10 To 25, Add	100.50	
For >25 To 50, Add	50.25	
For >50 To 100, Add	-16.69	
For >500 To 1,000, Deduct	-25.39	
For >1,000 To 2,000, Deduct	-42.02	
For >2,000 To 5,000, Deduct	-69.57	
For >5,000, Deduct		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	373.29	
For Vinlyester Resin, Add	240.04	
For Epoxy Resin, Add	28.29	
For Up To >10, Add	262.60	
For >10 To 25, Add	161.68	
For >25 To 50, Add	114.15	
For >50 To 100, Add	57.08	
For >500 To 1,000, Deduct	-19.42	
For >1,000 To 2,000, Deduct	-29.52	
For >2,000 To 5,000, Deduct	-48.74	
For >5,000, Deduct	-80.73	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	427.98	
For Vinlyester Resin, Add	275.94	
For Epoxy Resin, Add	32.52	
For Up To >10, Add	298.44	
For >10 To 25, Add	183.00	
For >25 To 50, Add	129.51	
For >50 To 100, Add	64.76	
For >500 To 1,000, Deduct	-22.24	
For >1,000 To 2,000, Deduct	-33.79	
For >2,000 To 5,000, Deduct	-55.75	
For >5,000, Deduct	-92.35	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	483.69	
For Vinlyester Resin, Add	311.84	
For Epoxy Resin, Add	36.75	
For Up To >10, Add	337.35	
For >10 To 25, Add	206.87	
For >25 To 50, Add	146.40	
For >50 To 100, Add	73.20	
For >500 To 1,000, Deduct	-25.14	
For >1,000 To 2,000, Deduct	-38.19	
For >2,000 To 5,000, Deduct	-63.01	
For >5,000, Deduct	-104.38	
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	539.40	
For Vinlyester Resin, Add	347.75	
For Epoxy Resin, Add	40.99	
For Up To >10, Add	376.23	
For >10 To 25, Add	230.72	
For >25 To 50, Add	163.27	
For >50 To 100, Add	81.64	
For >500 To 1,000, Deduct	-28.04	
For >1,000 To 2,000, Deduct	-42.59	
For >2,000 To 5,000, Deduct	-70.27	
For >5,000, Deduct	-116.40	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	650.82	
For Vinlyester Resin, Add	419.57	
For Epoxy Resin, Add	49.45	
For Up To >10, Add	454.01	
For >10 To 25, Add	278.45	
For >25 To 50, Add	197.04	
For >50 To 100, Add	98.52	
For >500 To 1,000, Deduct	-33.83	
For >1,000 To 2,000, Deduct	-51.38	
For >2,000 To 5,000, Deduct	-84.79	
For >5,000, Deduct	-140.45	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	790.60	
For Vinlyester Resin, Add	511.32	
For Epoxy Resin, Add	60.26	
For Up To >10, Add	545.65	
For >10 To 25, Add	332.97	
For >25 To 50, Add	236.30	
For >50 To 100, Add	118.15	
For >500 To 1,000, Deduct	-41.03	
For >1,000 To 2,000, Deduct	-62.30	
For >2,000 To 5,000, Deduct	-102.69	
For >5,000, Deduct	-170.15	
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	873.52	
For Vinlyester Resin, Add	563.19	
For Epoxy Resin, Add	66.38	
For Up To >10, Add	609.16	
For >10 To 25, Add	373.54	
For >25 To 50, Add	264.35	
For >50 To 100, Add	132.18	
For >500 To 1,000, Deduct	-45.40	
For >1,000 To 2,000, Deduct	-68.96	
For >2,000 To 5,000, Deduct	-113.79	
For >5,000, Deduct	-188.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	984.93	
For Vinlyester Resin, Add	635.01	
For Epoxy Resin, Add	74.84	
For Up To >10, Add	686.92	
For >10 To 25, Add	421.24	
For >25 To 50, Add	298.10	
For >50 To 100, Add	149.05	
For >500 To 1,000, Deduct	-51.19	
For >1,000 To 2,000, Deduct	-77.76	
For >2,000 To 5,000, Deduct	-128.30	
For >5,000, Deduct	-212.54	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,096.34	
For Vinlyester Resin, Add	706.61	
For Epoxy Resin, Add	83.30	
For Up To >10, Add	764.70	
For >10 To 25, Add	468.96	
For >25 To 50, Add	331.86	
For >50 To 100, Add	165.93	
For >500 To 1,000, Deduct	-56.98	
For >1,000 To 2,000, Deduct	-86.56	
For >2,000 To 5,000, Deduct	-142.82	
For >5,000, Deduct	-236.59	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,210.78	
For Vinlyester Resin, Add	778.62	
For Epoxy Resin, Add	91.77	
For Up To >10, Add	851.54	
For >10 To 25, Add	524.23	
For >25 To 50, Add	370.15	
For >50 To 100, Add	185.08	
For >500 To 1,000, Deduct	-63.00	
For >1,000 To 2,000, Deduct	-95.73	
For >2,000 To 5,000, Deduct	-158.09	
For >5,000, Deduct	-261.85	
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,322.45	
For Vinlyester Resin, Add	850.44	
For Epoxy Resin, Add	100.23	
For Up To >10, Add	930.08	
For >10 To 25, Add	572.58	
For >25 To 50, Add	404.29	
For >50 To 100, Add	202.15	
For >500 To 1,000, Deduct	-68.81	
For >1,000 To 2,000, Deduct	-104.56	
For >2,000 To 5,000, Deduct	-172.67	
For >5,000, Deduct	-286.00	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,434.11	
For Vinlyester Resin, Add	922.25	
For Epoxy Resin, Add	108.69	
For Up To >10, Add	1,008.58	
For >10 To 25, Add	620.90	
For >25 To 50, Add	438.42	
For >50 To 100, Add	219.21	
For >500 To 1,000, Deduct	-74.62	
For >1,000 To 2,000, Deduct	-113.39	
For >2,000 To 5,000, Deduct	-187.25	
For >5,000, Deduct	-310.14	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,545.79	
For Vinlyester Resin, Add	994.06	
For Epoxy Resin, Add	117.16	
For Up To >10, Add	1,087.15	
For >10 To 25, Add	669.27	
For >25 To 50, Add	472.57	
For >50 To 100, Add	236.28	
For >500 To 1,000, Deduct	-80.43	
For >1,000 To 2,000, Deduct	-122.22	
For >2,000 To 5,000, Deduct	-201.84	
For >5,000, Deduct	-334.30	
33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	394.65	
For Vinlyester Resin, Add	254.28	
For Epoxy Resin, Add	29.97	
For Up To >10, Add	275.80	
For >10 To 25, Add	169.29	
For >25 To 50, Add	119.74	
For >50 To 100, Add	59.87	
For >500 To 1,000, Deduct	-20.52	
For >1,000 To 2,000, Deduct	-31.17	
For >2,000 To 5,000, Deduct	-51.44	
For >5,000, Deduct	-85.21	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	453.31	
For Vinylster Resin, Add	292.43	
For Epoxy Resin, Add	34.47	
For Up To >10, Add	315.53	
For >10 To 25, Add	193.32	
For >25 To 50, Add	136.88	
For >50 To 100, Add	68.44	
For >500 To 1,000, Deduct	-23.55	
For >1,000 To 2,000, Deduct	-35.78	
For >2,000 To 5,000, Deduct	-59.02	
For >5,000, Deduct	-97.77	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	512.49	
For Vinylster Resin, Add	330.59	
For Epoxy Resin, Add	38.96	
For Up To >10, Add	356.80	
For >10 To 25, Add	218.62	
For >25 To 50, Add	154.78	
For >50 To 100, Add	77.39	
For >500 To 1,000, Deduct	-26.63	
For >1,000 To 2,000, Deduct	-40.45	
For >2,000 To 5,000, Deduct	-66.73	
For >5,000, Deduct	-110.54	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	571.53	
For Vinylster Resin, Add	368.74	
For Epoxy Resin, Add	43.46	
For Up To >10, Add	397.67	
For >10 To 25, Add	243.59	
For >25 To 50, Add	172.49	
For >50 To 100, Add	86.25	
For >500 To 1,000, Deduct	-29.70	
For >1,000 To 2,000, Deduct	-45.10	
For >2,000 To 5,000, Deduct	-74.40	
For >5,000, Deduct	-123.26	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	689.85	
For Vinylster Resin, Add	445.03	
For Epoxy Resin, Add	52.45	
For Up To >10, Add	480.15	
For >10 To 25, Add	294.17	
For >25 To 50, Add	208.29	
For >50 To 100, Add	104.14	
For >500 To 1,000, Deduct	-35.84	
For >1,000 To 2,000, Deduct	-54.44	
For >2,000 To 5,000, Deduct	-89.81	
For >5,000, Deduct	-148.79	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	808.06	
For Vinylster Resin, Add	521.34	
For Epoxy Resin, Add	61.44	
For Up To >10, Add	562.26	
For >10 To 25, Add	344.42	
For >25 To 50, Add	243.89	
For >50 To 100, Add	121.94	
For >500 To 1,000, Deduct	-41.99	
For >1,000 To 2,000, Deduct	-63.77	
For >2,000 To 5,000, Deduct	-105.19	
For >5,000, Deduct	-174.27	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	926.39	
For Vinylster Resin, Add	597.64	
For Epoxy Resin, Add	70.44	
For Up To >10, Add	644.75	
For >10 To 25, Add	394.99	
For >25 To 50, Add	279.68	
For >50 To 100, Add	139.84	
For >500 To 1,000, Deduct	-48.14	
For >1,000 To 2,000, Deduct	-73.11	
For >2,000 To 5,000, Deduct	-120.61	
For >5,000, Deduct	-199.80	
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,044.59	
For Vinylster Resin, Add	673.94	
For Epoxy Resin, Add	79.43	
For Up To >10, Add	726.85	
For >10 To 25, Add	445.24	
For >25 To 50, Add	315.28	
For >50 To 100, Add	157.64	
For >500 To 1,000, Deduct	-54.28	
For >1,000 To 2,000, Deduct	-82.44	
For >2,000 To 5,000, Deduct	-135.99	
For >5,000, Deduct	-225.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,162.92	
For Vinylster Resin, Add	750.24	
For Epoxy Resin, Add	88.42	
For Up To >10, Add	809.34	
For >10 To 25, Add	495.82	
For >25 To 50, Add	351.08	
For >50 To 100, Add	175.54	
For >500 To 1,000, Deduct	-60.42	
For >1,000 To 2,000, Deduct	-91.78	
For >2,000 To 5,000, Deduct	-151.40	
For >5,000, Deduct	-250.81	
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,285.28	
For Vinylster Resin, Add	826.54	
For Epoxy Resin, Add	97.41	
For Up To >10, Add	903.92	
For >10 To 25, Add	556.47	
For >25 To 50, Add	392.92	
For >50 To 100, Add	196.46	
For >500 To 1,000, Deduct	-66.88	
For >1,000 To 2,000, Deduct	-101.62	
For >2,000 To 5,000, Deduct	-167.82	
For >5,000, Deduct	-277.96	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,403.99	
For Vinylster Resin, Add	902.84	
For Epoxy Resin, Add	106.41	
For Up To >10, Add	987.55	
For >10 To 25, Add	607.99	
For >25 To 50, Add	429.28	
For >50 To 100, Add	214.64	
For >500 To 1,000, Deduct	-73.06	
For >1,000 To 2,000, Deduct	-111.01	
For >2,000 To 5,000, Deduct	-183.33	
For >5,000, Deduct	-303.64	
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,522.57	
For Vinylster Resin, Add	979.14	
For Epoxy Resin, Add	115.40	
For Up To >10, Add	1,070.79	
For >10 To 25, Add	659.19	
For >25 To 50, Add	465.45	
For >50 To 100, Add	232.73	
For >500 To 1,000, Deduct	-79.22	
For >1,000 To 2,000, Deduct	-120.38	
For >2,000 To 5,000, Deduct	-198.80	
For >5,000, Deduct	-329.27	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,641.28	
For Vinylster Resin, Add	1,055.44	
For Epoxy Resin, Add	124.39	
For Up To >10, Add	1,154.42	
For >10 To 25, Add	710.72	
For >25 To 50, Add	501.82	
For >50 To 100, Add	250.91	
For >500 To 1,000, Deduct	-85.40	
For >1,000 To 2,000, Deduct	-129.77	
For >2,000 To 5,000, Deduct	-214.31	
For >5,000, Deduct	-354.96	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	415.78	
For Vinylster Resin, Add	268.45	
For Epoxy Resin, Add	31.64	
For Up To >10, Add	288.59	
For >10 To 25, Add	176.58	
For >25 To 50, Add	125.12	
For >50 To 100, Add	62.56	
For >500 To 1,000, Deduct	-21.60	
For >1,000 To 2,000, Deduct	-32.80	
For >2,000 To 5,000, Deduct	-54.09	
For >5,000, Deduct	-89.61	
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	478.39	
For Vinylster Resin, Add	308.84	
For Epoxy Resin, Add	36.40	
For Up To >10, Add	332.17	
For >10 To 25, Add	203.28	
For >25 To 50, Add	144.03	
For >50 To 100, Add	72.01	
For >500 To 1,000, Deduct	-24.85	
For >1,000 To 2,000, Deduct	-37.74	
For >2,000 To 5,000, Deduct	-62.24	
For >5,000, Deduct	-103.12	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	541.02	
For Vinlyester Resin, Add	349.24	
For Epoxy Resin, Add	41.16	
For Up To >10, Add	375.79	
For >10 To 25, Add	230.00	
For >25 To 50, Add	162.95	
For >50 To 100, Add	81.47	
For >500 To 1,000, Deduct	-28.10	
For >1,000 To 2,000, Deduct	-42.68	
For >2,000 To 5,000, Deduct	-70.40	
For >5,000, Deduct	-116.63	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	603.52	
For Vinlyester Resin, Add	389.63	
For Epoxy Resin, Add	45.92	
For Up To >10, Add	419.01	
For >10 To 25, Add	256.41	
For >25 To 50, Add	181.67	
For >50 To 100, Add	90.84	
For >500 To 1,000, Deduct	-31.35	
For >1,000 To 2,000, Deduct	-47.61	
For >2,000 To 5,000, Deduct	-78.52	
For >5,000, Deduct	-130.08	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.63	
For Vinlyester Resin, Add	470.42	
For Epoxy Resin, Add	55.44	
For Up To >10, Add	505.82	
For >10 To 25, Add	309.51	
For >25 To 50, Add	219.31	
For >50 To 100, Add	109.65	
For >500 To 1,000, Deduct	-37.85	
For >1,000 To 2,000, Deduct	-57.48	
For >2,000 To 5,000, Deduct	-94.79	
For >5,000, Deduct	-157.05	
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	853.88	
For Vinlyester Resin, Add	551.21	
For Epoxy Resin, Add	64.96	
For Up To >10, Add	593.04	
For >10 To 25, Add	362.96	
For >25 To 50, Add	257.15	
For >50 To 100, Add	128.57	
For >500 To 1,000, Deduct	-44.36	
For >1,000 To 2,000, Deduct	-67.36	
For >2,000 To 5,000, Deduct	-111.10	
For >5,000, Deduct	-184.06	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	979.00	
For Vinlyester Resin, Add	632.00	
For Epoxy Resin, Add	74.49	
For Up To >10, Add	679.88	
For >10 To 25, Add	416.09	
For >25 To 50, Add	294.80	
For >50 To 100, Add	147.40	
For >500 To 1,000, Deduct	-50.85	
For >1,000 To 2,000, Deduct	-77.23	
For >2,000 To 5,000, Deduct	-127.38	
For >5,000, Deduct	-211.03	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,104.12	
For Vinlyester Resin, Add	712.79	
For Epoxy Resin, Add	84.01	
For Up To >10, Add	766.69	
For >10 To 25, Add	469.19	
For >25 To 50, Add	332.43	
For >50 To 100, Add	166.21	
For >500 To 1,000, Deduct	-57.35	
For >1,000 To 2,000, Deduct	-87.10	
For >2,000 To 5,000, Deduct	-143.65	
For >5,000, Deduct	-237.99	
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,229.24	
For Vinlyester Resin, Add	793.58	
For Epoxy Resin, Add	93.53	
For Up To >10, Add	853.52	
For >10 To 25, Add	522.32	
For >25 To 50, Add	370.08	
For >50 To 100, Add	185.04	
For >500 To 1,000, Deduct	-63.85	
For >1,000 To 2,000, Deduct	-96.97	
For >2,000 To 5,000, Deduct	-159.93	
For >5,000, Deduct	-264.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,359.65	
<i>For Vinylster Resin, Add</i>	874.36	
<i>For Epoxy Resin, Add</i>	103.05	
<i>For Up To >10, Add</i>	956.23	
<i>For >10 To 25, Add</i>	588.67	
<i>For >25 To 50, Add</i>	415.66	
<i>For >50 To 100, Add</i>	207.83	
<i>For >500 To 1,000, Deduct</i>	-70.75	
<i>For >1,000 To 2,000, Deduct</i>	-107.50	
<i>For >2,000 To 5,000, Deduct</i>	-177.53	
<i>For >5,000, Deduct</i>	-294.04	
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,485.28	
<i>For Vinylster Resin, Add</i>	955.15	
<i>For Epoxy Resin, Add</i>	112.57	
<i>For Up To >10, Add</i>	1,044.59	
<i>For >10 To 25, Add</i>	643.08	
<i>For >25 To 50, Add</i>	454.07	
<i>For >50 To 100, Add</i>	227.04	
<i>For >500 To 1,000, Deduct</i>	-77.28	
<i>For >1,000 To 2,000, Deduct</i>	-117.44	
<i>For >2,000 To 5,000, Deduct</i>	-193.94	
<i>For >5,000, Deduct</i>	-321.21	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,610.91	
<i>For Vinylster Resin, Add</i>	1,035.94	
<i>For Epoxy Resin, Add</i>	122.09	
<i>For Up To >10, Add</i>	1,132.93	
<i>For >10 To 25, Add</i>	697.46	
<i>For >25 To 50, Add</i>	492.47	
<i>For >50 To 100, Add</i>	246.23	
<i>For >500 To 1,000, Deduct</i>	-83.82	
<i>For >1,000 To 2,000, Deduct</i>	-127.37	
<i>For >2,000 To 5,000, Deduct</i>	-210.34	
<i>For >5,000, Deduct</i>	-348.38	
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,736.53	
<i>For Vinylster Resin, Add</i>	1,116.73	
<i>For Epoxy Resin, Add</i>	131.61	
<i>For Up To >10, Add</i>	1,221.27	
<i>For >10 To 25, Add</i>	751.83	
<i>For >25 To 50, Add</i>	530.87	
<i>For >50 To 100, Add</i>	265.43	
<i>For >500 To 1,000, Deduct</i>	-90.36	
<i>For >1,000 To 2,000, Deduct</i>	-137.30	
<i>For >2,000 To 5,000, Deduct</i>	-226.74	
<i>For >5,000, Deduct</i>	-375.55	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	503.09	
<i>For Vinylster Resin, Add</i>	325.16	
<i>For Epoxy Resin, Add</i>	38.32	
<i>For Up To >10, Add</i>	348.00	
<i>For >10 To 25, Add</i>	212.58	
<i>For >25 To 50, Add</i>	150.77	
<i>For >50 To 100, Add</i>	75.39	
<i>For >500 To 1,000, Deduct</i>	-26.12	
<i>For >1,000 To 2,000, Deduct</i>	-39.66	
<i>For >2,000 To 5,000, Deduct</i>	-65.39	
<i>For >5,000, Deduct</i>	-108.33	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	569.17	
<i>For Vinylster Resin, Add</i>	367.80	
<i>For Epoxy Resin, Add</i>	43.35	
<i>For Up To >10, Add</i>	393.94	
<i>For >10 To 25, Add</i>	240.71	
<i>For >25 To 50, Add</i>	170.70	
<i>For >50 To 100, Add</i>	85.35	
<i>For >500 To 1,000, Deduct</i>	-29.55	
<i>For >1,000 To 2,000, Deduct</i>	-44.87	
<i>For >2,000 To 5,000, Deduct</i>	-73.99	
<i>For >5,000, Deduct</i>	-122.58	
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	635.13	
<i>For Vinylster Resin, Add</i>	410.44	
<i>For Epoxy Resin, Add</i>	48.37	
<i>For Up To >10, Add</i>	439.54	
<i>For >10 To 25, Add</i>	268.56	
<i>For >25 To 50, Add</i>	190.45	
<i>For >50 To 100, Add</i>	95.23	
<i>For >500 To 1,000, Deduct</i>	-32.98	
<i>For >1,000 To 2,000, Deduct</i>	-50.07	
<i>For >2,000 To 5,000, Deduct</i>	-82.56	
<i>For >5,000, Deduct</i>	-136.78	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	803.05	
For Vinlyester Resin, Add	520.92	
For Epoxy Resin, Add	61.39	
For Up To >10, Add	548.73	
For >10 To 25, Add	333.24	
For >25 To 50, Add	237.15	
For >50 To 100, Add	118.58	
For >500 To 1,000, Deduct	-41.62	
For >1,000 To 2,000, Deduct	-63.17	
For >2,000 To 5,000, Deduct	-104.02	
For >5,000, Deduct	-172.39	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	899.07	
For Vinlyester Resin, Add	580.99	
For Epoxy Resin, Add	68.47	
For Up To >10, Add	622.24	
For >10 To 25, Add	380.20	
For >25 To 50, Add	269.62	
For >50 To 100, Add	134.81	
For >500 To 1,000, Deduct	-46.68	
For >1,000 To 2,000, Deduct	-70.88	
For >2,000 To 5,000, Deduct	-116.87	
For >5,000, Deduct	-193.63	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,030.98	
For Vinlyester Resin, Add	666.27	
For Epoxy Resin, Add	78.52	
For Up To >10, Add	713.42	
For >10 To 25, Add	435.88	
For >25 To 50, Add	309.12	
For >50 To 100, Add	154.56	
For >500 To 1,000, Deduct	-53.53	
For >1,000 To 2,000, Deduct	-81.28	
For >2,000 To 5,000, Deduct	-134.01	
For >5,000, Deduct	-222.03	
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,162.90	
For Vinlyester Resin, Add	751.55	
For Epoxy Resin, Add	88.58	
For Up To >10, Add	804.60	
For >10 To 25, Add	491.56	
For >25 To 50, Add	348.62	
For >50 To 100, Add	174.31	
For >500 To 1,000, Deduct	-60.38	
For >1,000 To 2,000, Deduct	-91.68	
For >2,000 To 5,000, Deduct	-151.15	
For >5,000, Deduct	-250.43	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,294.80	
For Vinlyester Resin, Add	836.82	
For Epoxy Resin, Add	98.63	
For Up To >10, Add	895.75	
For >10 To 25, Add	547.22	
For >25 To 50, Add	388.10	
For >50 To 100, Add	194.05	
For >500 To 1,000, Deduct	-67.22	
For >1,000 To 2,000, Deduct	-102.08	
For >2,000 To 5,000, Deduct	-168.29	
For >5,000, Deduct	-278.83	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,432.27	
For Vinlyester Resin, Add	922.10	
For Epoxy Resin, Add	108.68	
For Up To >10, Add	1,003.59	
For >10 To 25, Add	616.77	
For >25 To 50, Add	435.93	
For >50 To 100, Add	217.96	
For >500 To 1,000, Deduct	-74.49	
For >1,000 To 2,000, Deduct	-113.17	
For >2,000 To 5,000, Deduct	-186.82	
For >5,000, Deduct	-309.45	
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,564.68	
For Vinlyester Resin, Add	1,007.38	
For Epoxy Resin, Add	118.73	
For Up To >10, Add	1,096.27	
For >10 To 25, Add	673.70	
For >25 To 50, Add	476.18	
For >50 To 100, Add	238.09	
For >500 To 1,000, Deduct	-81.37	
For >1,000 To 2,000, Deduct	-123.63	
For >2,000 To 5,000, Deduct	-204.09	
For >5,000, Deduct	-338.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,697.22	
For Vinylster Resin, Add	1,092.65	
For Epoxy Resin, Add	128.78	
For Up To >10, Add	1,189.34	
For >10 To 25, Add	730.96	
For >25 To 50, Add	516.62	
For >50 To 100, Add	258.31	
For >500 To 1,000, Deduct	-88.27	
For >1,000 To 2,000, Deduct	-134.11	
For >2,000 To 5,000, Deduct	-221.38	
For >5,000, Deduct	-366.70	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,829.63	
For Vinylster Resin, Add	1,177.93	
For Epoxy Resin, Add	138.83	
For Up To >10, Add	1,281.99	
For >10 To 25, Add	787.87	
For >25 To 50, Add	556.86	
For >50 To 100, Add	278.43	
For >500 To 1,000, Deduct	-95.15	
For >1,000 To 2,000, Deduct	-144.57	
For >2,000 To 5,000, Deduct	-238.65	
For >5,000, Deduct	-395.30	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	527.66	
For Vinylster Resin, Add	341.39	
For Epoxy Resin, Add	40.24	
For Up To >10, Add	363.73	
For >10 To 25, Add	221.83	
For >25 To 50, Add	157.48	
For >50 To 100, Add	78.74	
For >500 To 1,000, Deduct	-27.38	
For >1,000 To 2,000, Deduct	-41.57	
For >2,000 To 5,000, Deduct	-68.51	
For >5,000, Deduct	-113.52	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	597.08	
For Vinylster Resin, Add	386.27	
For Epoxy Resin, Add	45.53	
For Up To >10, Add	411.69	
For >10 To 25, Add	251.11	
For >25 To 50, Add	178.25	
For >50 To 100, Add	89.13	
For >500 To 1,000, Deduct	-30.99	
For >1,000 To 2,000, Deduct	-47.04	
For >2,000 To 5,000, Deduct	-77.53	
For >5,000, Deduct	-128.47	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	666.49	
For Vinylster Resin, Add	431.16	
For Epoxy Resin, Add	50.82	
For Up To >10, Add	459.62	
For >10 To 25, Add	280.36	
For >25 To 50, Add	199.01	
For >50 To 100, Add	99.51	
For >500 To 1,000, Deduct	-34.59	
For >1,000 To 2,000, Deduct	-52.51	
For >2,000 To 5,000, Deduct	-86.55	
For >5,000, Deduct	-143.41	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	805.19	
For Vinylster Resin, Add	520.92	
For Epoxy Resin, Add	61.39	
For Up To >10, Add	555.15	
For >10 To 25, Add	338.59	
For >25 To 50, Add	240.36	
For >50 To 100, Add	120.18	
For >500 To 1,000, Deduct	-41.79	
For >1,000 To 2,000, Deduct	-63.44	
For >2,000 To 5,000, Deduct	-104.56	
For >5,000, Deduct	-173.24	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	944.02	
For Vinylster Resin, Add	610.69	
For Epoxy Resin, Add	71.97	
For Up To >10, Add	651.04	
For >10 To 25, Add	397.13	
For >25 To 50, Add	281.90	
For >50 To 100, Add	140.95	
For >500 To 1,000, Deduct	-48.99	
For >1,000 To 2,000, Deduct	-74.38	
For >2,000 To 5,000, Deduct	-122.59	
For >5,000, Deduct	-203.13	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0208	LF		30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,082.71	
			For Vinlyester Resin, Add	700.45	
			For Epoxy Resin, Add	82.55	
			For Up To >10, Add	746.53	
			For >10 To 25, Add	455.34	
			For >25 To 50, Add	323.23	
			For >50 To 100, Add	161.62	
			For >500 To 1,000, Deduct	-56.19	
			For >1,000 To 2,000, Deduct	-85.31	
			For >2,000 To 5,000, Deduct	-140.59	
			For >5,000, Deduct	-232.96	
33 01 30 72-0209	LF		30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,221.54	
			For Vinlyester Resin, Add	790.22	
			For Epoxy Resin, Add	93.13	
			For Up To >10, Add	842.42	
			For >10 To 25, Add	513.87	
			For >25 To 50, Add	364.77	
			For >50 To 100, Add	182.38	
			For >500 To 1,000, Deduct	-63.39	
			For >1,000 To 2,000, Deduct	-96.25	
			For >2,000 To 5,000, Deduct	-158.63	
			For >5,000, Deduct	-262.84	
33 01 30 72-0210	LF		30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,360.24	
			For Vinlyester Resin, Add	879.98	
			For Epoxy Resin, Add	103.71	
			For Up To >10, Add	937.92	
			For >10 To 25, Add	572.08	
			For >25 To 50, Add	406.10	
			For >50 To 100, Add	203.05	
			For >500 To 1,000, Deduct	-70.59	
			For >1,000 To 2,000, Deduct	-107.17	
			For >2,000 To 5,000, Deduct	-176.63	
			For >5,000, Deduct	-292.67	
33 01 30 72-0211	LF		30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,504.74	
			For Vinlyester Resin, Add	969.75	
			For Epoxy Resin, Add	114.29	
			For Up To >10, Add	1,050.85	
			For >10 To 25, Add	644.81	
			For >25 To 50, Add	456.16	
			For >50 To 100, Add	228.08	
			For >500 To 1,000, Deduct	-78.22	
			For >1,000 To 2,000, Deduct	-118.83	
			For >2,000 To 5,000, Deduct	-196.09	
			For >5,000, Deduct	-324.83	
33 01 30 72-0212	LF		30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,643.95	
			For Vinlyester Resin, Add	1,059.51	
			For Epoxy Resin, Add	124.87	
			For Up To >10, Add	1,147.88	
			For >10 To 25, Add	704.30	
			For >25 To 50, Add	498.26	
			For >50 To 100, Add	249.13	
			For >500 To 1,000, Deduct	-85.46	
			For >1,000 To 2,000, Deduct	-129.81	
			For >2,000 To 5,000, Deduct	-214.22	
			For >5,000, Deduct	-354.86	
33 01 30 72-0213	LF		30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,783.28	
			For Vinlyester Resin, Add	1,149.28	
			For Epoxy Resin, Add	135.45	
			For Up To >10, Add	1,245.27	
			For >10 To 25, Add	764.08	
			For >25 To 50, Add	540.54	
			For >50 To 100, Add	270.27	
			For >500 To 1,000, Deduct	-92.70	
			For >1,000 To 2,000, Deduct	-140.82	
			For >2,000 To 5,000, Deduct	-232.38	
			For >5,000, Deduct	-384.95	
33 01 30 72-0214	LF		30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,922.60	
			For Vinlyester Resin, Add	1,239.04	
			For Epoxy Resin, Add	146.03	
			For Up To >10, Add	1,342.65	
			For >10 To 25, Add	823.87	
			For >25 To 50, Add	582.82	
			For >50 To 100, Add	291.41	
			For >500 To 1,000, Deduct	-99.94	
			For >1,000 To 2,000, Deduct	-151.82	
			For >2,000 To 5,000, Deduct	-250.54	
			For >5,000, Deduct	-415.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,061.82	
For Vinylster Resin, Add	1,328.81	
For Epoxy Resin, Add	156.61	
For Up To >10, Add	1,439.71	
For >10 To 25, Add	883.38	
For >25 To 50, Add	624.94	
For >50 To 100, Add	312.47	
For >500 To 1,000, Deduct	-107.18	
For >1,000 To 2,000, Deduct	-162.81	
For >2,000 To 5,000, Deduct	-268.68	
For >5,000, Deduct	-445.07	
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,201.15	
For Vinylster Resin, Add	1,418.58	
For Epoxy Resin, Add	167.19	
For Up To >10, Add	1,537.10	
For >10 To 25, Add	943.16	
For >25 To 50, Add	667.22	
For >50 To 100, Add	333.61	
For >500 To 1,000, Deduct	-114.42	
For >1,000 To 2,000, Deduct	-173.82	
For >2,000 To 5,000, Deduct	-286.84	
For >5,000, Deduct	-475.15	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	552.11	
For Vinylster Resin, Add	357.53	
For Epoxy Resin, Add	42.14	
For Up To >10, Add	379.43	
For >10 To 25, Add	231.07	
For >25 To 50, Add	164.18	
For >50 To 100, Add	82.09	
For >500 To 1,000, Deduct	-28.64	
For >1,000 To 2,000, Deduct	-43.48	
For >2,000 To 5,000, Deduct	-71.63	
For >5,000, Deduct	-118.69	
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	624.86	
For Vinylster Resin, Add	404.66	
For Epoxy Resin, Add	47.69	
For Up To >10, Add	429.36	
For >10 To 25, Add	261.45	
For >25 To 50, Add	185.77	
For >50 To 100, Add	92.89	
For >500 To 1,000, Deduct	-32.41	
For >1,000 To 2,000, Deduct	-49.20	
For >2,000 To 5,000, Deduct	-81.06	
For >5,000, Deduct	-134.33	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	697.61	
For Vinylster Resin, Add	451.79	
For Epoxy Resin, Add	53.25	
For Up To >10, Add	479.31	
For >10 To 25, Add	291.85	
For >25 To 50, Add	207.38	
For >50 To 100, Add	103.69	
For >500 To 1,000, Deduct	-36.19	
For >1,000 To 2,000, Deduct	-54.93	
For >2,000 To 5,000, Deduct	-90.50	
For >5,000, Deduct	-149.96	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.22	
For Vinylster Resin, Add	546.04	
For Epoxy Resin, Add	64.35	
For Up To >10, Add	579.51	
For >10 To 25, Add	352.92	
For >25 To 50, Add	250.75	
For >50 To 100, Add	125.38	
For >500 To 1,000, Deduct	-43.74	
For >1,000 To 2,000, Deduct	-66.40	
For >2,000 To 5,000, Deduct	-109.40	
For >5,000, Deduct	-181.28	
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	988.71	
For Vinylster Resin, Add	640.30	
For Epoxy Resin, Add	75.46	
For Up To >10, Add	679.36	
For >10 To 25, Add	413.68	
For >25 To 50, Add	293.94	
For >50 To 100, Add	146.97	
For >500 To 1,000, Deduct	-51.29	
For >1,000 To 2,000, Deduct	-77.85	
For >2,000 To 5,000, Deduct	-128.27	
For >5,000, Deduct	-212.54	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,134.34	
For Vinlyester Resin, Add	734.55	
For Epoxy Resin, Add	86.57	
For Up To >10, Add	779.62	
For >10 To 25, Add	474.79	
For >25 To 50, Add	337.34	
For >50 To 100, Add	168.67	
For >500 To 1,000, Deduct	-58.84	
For >1,000 To 2,000, Deduct	-89.32	
For >2,000 To 5,000, Deduct	-147.17	
For >5,000, Deduct	-243.86	
33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,279.81	
For Vinlyester Resin, Add	828.80	
For Epoxy Resin, Add	97.68	
For Up To >10, Add	879.43	
For >10 To 25, Add	535.53	
For >25 To 50, Add	380.52	
For >50 To 100, Add	190.26	
For >500 To 1,000, Deduct	-66.39	
For >1,000 To 2,000, Deduct	-100.78	
For >2,000 To 5,000, Deduct	-166.03	
For >5,000, Deduct	-275.12	
33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,425.31	
For Vinlyester Resin, Add	923.06	
For Epoxy Resin, Add	108.79	
For Up To >10, Add	979.31	
For >10 To 25, Add	596.31	
For >25 To 50, Add	423.72	
For >50 To 100, Add	211.86	
For >500 To 1,000, Deduct	-73.93	
For >1,000 To 2,000, Deduct	-112.23	
For >2,000 To 5,000, Deduct	-184.90	
For >5,000, Deduct	-306.39	
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,576.85	
For Vinlyester Resin, Add	1,017.31	
For Epoxy Resin, Add	119.90	
For Up To >10, Add	1,097.30	
For >10 To 25, Add	672.20	
For >25 To 50, Add	475.99	
For >50 To 100, Add	237.99	
For >500 To 1,000, Deduct	-81.93	
For >1,000 To 2,000, Deduct	-124.44	
For >2,000 To 5,000, Deduct	-205.28	
For >5,000, Deduct	-340.08	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,733.93	
For Vinlyester Resin, Add	1,119.15	
For Epoxy Resin, Add	131.90	
For Up To >10, Add	1,204.82	
For >10 To 25, Add	737.55	
For >25 To 50, Add	522.47	
For >50 To 100, Add	261.23	
For >500 To 1,000, Deduct	-90.08	
For >1,000 To 2,000, Deduct	-136.80	
For >2,000 To 5,000, Deduct	-225.64	
For >5,000, Deduct	-373.81	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,868.96	
For Vinlyester Resin, Add	1,205.81	
For Epoxy Resin, Add	142.11	
For Up To >10, Add	1,300.41	
For >10 To 25, Add	796.57	
For >25 To 50, Add	564.07	
For >50 To 100, Add	282.04	
For >500 To 1,000, Deduct	-97.11	
For >1,000 To 2,000, Deduct	-147.49	
For >2,000 To 5,000, Deduct	-243.30	
For >5,000, Deduct	-403.07	
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,015.08	
For Vinlyester Resin, Add	1,300.07	
For Epoxy Resin, Add	153.22	
For Up To >10, Add	1,402.14	
For >10 To 25, Add	858.91	
For >25 To 50, Add	608.21	
For >50 To 100, Add	304.10	
For >500 To 1,000, Deduct	-104.70	
For >1,000 To 2,000, Deduct	-159.02	
For >2,000 To 5,000, Deduct	-262.33	
For >5,000, Deduct	-434.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,161.07	
For Vinylster Resin, Add	1,394.32	
For Epoxy Resin, Add	164.33	
For Up To >10, Add	1,503.49	
For >10 To 25, Add	920.92	
For >25 To 50, Add	652.15	
For >50 To 100, Add	326.07	
For >500 To 1,000, Deduct	-112.28	
For >1,000 To 2,000, Deduct	-170.54	
For >2,000 To 5,000, Deduct	-281.32	
For >5,000, Deduct	-466.05	
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,307.20	
For Vinylster Resin, Add	1,488.58	
For Epoxy Resin, Add	175.44	
For Up To >10, Add	1,605.25	
For >10 To 25, Add	983.29	
For >25 To 50, Add	696.30	
For >50 To 100, Add	348.15	
For >500 To 1,000, Deduct	-119.88	
For >1,000 To 2,000, Deduct	-182.07	
For >2,000 To 5,000, Deduct	-300.35	
For >5,000, Deduct	-497.57	
33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.31	
For Vinylster Resin, Add	373.59	
For Epoxy Resin, Add	44.03	
For Up To >10, Add	394.68	
For >10 To 25, Add	239.95	
For >25 To 50, Add	170.66	
For >50 To 100, Add	85.33	
For >500 To 1,000, Deduct	-29.88	
For >1,000 To 2,000, Deduct	-45.35	
For >2,000 To 5,000, Deduct	-74.70	
For >5,000, Deduct	-123.78	
33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	652.51	
For Vinylster Resin, Add	422.95	
For Epoxy Resin, Add	49.85	
For Up To >10, Add	446.98	
For >10 To 25, Add	271.78	
For >25 To 50, Add	193.28	
For >50 To 100, Add	96.64	
For >500 To 1,000, Deduct	-33.83	
For >1,000 To 2,000, Deduct	-51.35	
For >2,000 To 5,000, Deduct	-84.58	
For >5,000, Deduct	-140.16	
33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.58	
For Vinylster Resin, Add	472.33	
For Epoxy Resin, Add	55.67	
For Up To >10, Add	498.87	
For >10 To 25, Add	303.26	
For >25 To 50, Add	215.70	
For >50 To 100, Add	107.85	
For >500 To 1,000, Deduct	-37.77	
For >1,000 To 2,000, Deduct	-57.34	
For >2,000 To 5,000, Deduct	-94.43	
For >5,000, Deduct	-156.48	
33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	881.00	
For Vinylster Resin, Add	571.07	
For Epoxy Resin, Add	67.31	
For Up To >10, Add	603.45	
For >10 To 25, Add	366.91	
For >25 To 50, Add	260.93	
For >50 To 100, Add	130.47	
For >500 To 1,000, Deduct	-45.68	
For >1,000 To 2,000, Deduct	-69.33	
For >2,000 To 5,000, Deduct	-114.19	
For >5,000, Deduct	-189.24	
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,033.26	
For Vinylster Resin, Add	669.81	
For Epoxy Resin, Add	78.94	
For Up To >10, Add	707.61	
For >10 To 25, Add	430.19	
For >25 To 50, Add	305.96	
For >50 To 100, Add	152.98	
For >500 To 1,000, Deduct	-53.57	
For >1,000 To 2,000, Deduct	-81.31	
For >2,000 To 5,000, Deduct	-133.92	
For >5,000, Deduct	-221.93	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,185.68	
For Vinlyester Resin, Add	768.56	
For Epoxy Resin, Add	90.58	
For Up To >10, Add	812.19	
For >10 To 25, Add	493.84	
For >25 To 50, Add	351.20	
For >50 To 100, Add	175.60	
For >500 To 1,000, Deduct	-61.48	
For >1,000 To 2,000, Deduct	-93.31	
For >2,000 To 5,000, Deduct	-153.69	
For >5,000, Deduct	-254.68	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.96	
For Vinlyester Resin, Add	867.29	
For Epoxy Resin, Add	102.22	
For Up To >10, Add	916.41	
For >10 To 25, Add	557.17	
For >25 To 50, Add	396.25	
For >50 To 100, Add	198.13	
For >500 To 1,000, Deduct	-69.37	
For >1,000 To 2,000, Deduct	-105.30	
For >2,000 To 5,000, Deduct	-173.42	
For >5,000, Deduct	-287.39	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,490.25	
For Vinlyester Resin, Add	966.04	
For Epoxy Resin, Add	113.85	
For Up To >10, Add	1,020.60	
For >10 To 25, Add	620.49	
For >25 To 50, Add	441.30	
For >50 To 100, Add	220.65	
For >500 To 1,000, Deduct	-77.27	
For >1,000 To 2,000, Deduct	-117.28	
For >2,000 To 5,000, Deduct	-193.15	
For >5,000, Deduct	-320.09	
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,648.70	
For Vinlyester Resin, Add	1,064.78	
For Epoxy Resin, Add	125.49	
For Up To >10, Add	1,143.33	
For >10 To 25, Add	699.25	
For >25 To 50, Add	495.61	
For >50 To 100, Add	247.80	
For >500 To 1,000, Deduct	-85.62	
For >1,000 To 2,000, Deduct	-130.03	
For >2,000 To 5,000, Deduct	-214.43	
For >5,000, Deduct	-355.26	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,801.99	
For Vinlyester Resin, Add	1,163.53	
For Epoxy Resin, Add	137.13	
For Up To >10, Add	1,250.52	
For >10 To 25, Add	765.07	
For >25 To 50, Add	542.15	
For >50 To 100, Add	271.08	
For >500 To 1,000, Deduct	-93.59	
For >1,000 To 2,000, Deduct	-142.14	
For >2,000 To 5,000, Deduct	-234.41	
For >5,000, Deduct	-388.36	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,954.39	
For Vinlyester Resin, Add	1,262.26	
For Epoxy Resin, Add	148.77	
For Up To >10, Add	1,355.10	
For >10 To 25, Add	828.71	
For >25 To 50, Add	587.39	
For >50 To 100, Add	293.69	
For >500 To 1,000, Deduct	-101.50	
For >1,000 To 2,000, Deduct	-154.14	
For >2,000 To 5,000, Deduct	-254.18	
For >5,000, Deduct	-42.11	
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,107.30	
For Vinlyester Resin, Add	1,361.00	
For Epoxy Resin, Add	160.40	
For Up To >10, Add	1,461.18	
For >10 To 25, Add	893.60	
For >25 To 50, Add	633.37	
For >50 To 100, Add	316.69	
For >500 To 1,000, Deduct	-109.44	
For >1,000 To 2,000, Deduct	-166.20	
For >2,000 To 5,000, Deduct	-274.07	
For >5,000, Deduct	-454.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,260.21	
For Vinlyester Resin, Add	1,459.75	
For Epoxy Resin, Add	172.04	
For Up To >10, Add	1,567.26	
For >10 To 25, Add	958.49	
For >25 To 50, Add	679.36	
For >50 To 100, Add	339.68	
For >500 To 1,000, Deduct	-117.38	
For >1,000 To 2,000, Deduct	-178.26	
For >2,000 To 5,000, Deduct	-293.96	
For >5,000, Deduct	-487.01	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,413.12	
For Vinlyester Resin, Add	1,558.49	
For Epoxy Resin, Add	183.68	
For Up To >10, Add	1,673.34	
For >10 To 25, Add	1,023.38	
For >25 To 50, Add	725.35	
For >50 To 100, Add	362.67	
For >500 To 1,000, Deduct	-125.32	
For >1,000 To 2,000, Deduct	-190.32	
For >2,000 To 5,000, Deduct	-313.85	
For >5,000, Deduct	-519.97	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	679.66	
For Vinlyester Resin, Add	441.17	
For Epoxy Resin, Add	51.99	
For Up To >10, Add	463.38	
For >10 To 25, Add	281.11	
For >25 To 50, Add	200.18	
For >50 To 100, Add	100.09	
For >500 To 1,000, Deduct	-35.22	
For >1,000 To 2,000, Deduct	-53.45	
For >2,000 To 5,000, Deduct	-87.98	
For >5,000, Deduct	-145.82	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	759.19	
For Vinlyester Resin, Add	492.78	
For Epoxy Resin, Add	58.08	
For Up To >10, Add	517.65	
For >10 To 25, Add	314.04	
For >25 To 50, Add	223.62	
For >50 To 100, Add	111.81	
For >500 To 1,000, Deduct	-39.34	
For >1,000 To 2,000, Deduct	-59.70	
For >2,000 To 5,000, Deduct	-98.28	
For >5,000, Deduct	-162.88	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	918.27	
For Vinlyester Resin, Add	596.02	
For Epoxy Resin, Add	70.24	
For Up To >10, Add	626.19	
For >10 To 25, Add	379.91	
For >25 To 50, Add	270.52	
For >50 To 100, Add	135.26	
For >500 To 1,000, Deduct	-47.58	
For >1,000 To 2,000, Deduct	-72.21	
For >2,000 To 5,000, Deduct	-118.88	
For >5,000, Deduct	-197.02	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,077.21	
For Vinlyester Resin, Add	699.24	
For Epoxy Resin, Add	82.41	
For Up To >10, Add	734.33	
For >10 To 25, Add	445.46	
For >25 To 50, Add	317.22	
For >50 To 100, Add	158.61	
For >500 To 1,000, Deduct	-55.82	
For >1,000 To 2,000, Deduct	-84.71	
For >2,000 To 5,000, Deduct	-139.44	
For >5,000, Deduct	-231.10	
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,236.28	
For Vinlyester Resin, Add	802.47	
For Epoxy Resin, Add	94.58	
For Up To >10, Add	842.87	
For >10 To 25, Add	511.32	
For >25 To 50, Add	364.11	
For >50 To 100, Add	182.06	
For >500 To 1,000, Deduct	-64.06	
For >1,000 To 2,000, Deduct	-97.22	
For >2,000 To 5,000, Deduct	-160.04	
For >5,000, Deduct	-265.23	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0253	LF		34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,395.22	
			For Vinlyester Resin, Add	905.70	
			For Epoxy Resin, Add	106.74	
			For Up To >10, Add	951.01	
			For >10 To 25, Add	576.87	
			For >25 To 50, Add	410.81	
			For >50 To 100, Add	205.41	
			For >500 To 1,000, Deduct	-72.30	
			For >1,000 To 2,000, Deduct	-109.71	
			For >2,000 To 5,000, Deduct	-180.60	
			For >5,000, Deduct	-299.32	
33 01 30 72-0254	LF		34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,554.29	
			For Vinlyester Resin, Add	1,008.93	
			For Epoxy Resin, Add	118.91	
			For Up To >10, Add	1,059.55	
			For >10 To 25, Add	642.73	
			For >25 To 50, Add	457.71	
			For >50 To 100, Add	228.85	
			For >500 To 1,000, Deduct	-80.54	
			For >1,000 To 2,000, Deduct	-122.22	
			For >2,000 To 5,000, Deduct	-201.20	
			For >5,000, Deduct	-333.45	
33 01 30 72-0255	LF		34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,719.54	
			For Vinlyester Resin, Add	1,112.16	
			For Epoxy Resin, Add	131.08	
			For Up To >10, Add	1,186.62	
			For >10 To 25, Add	724.05	
			For >25 To 50, Add	513.87	
			For >50 To 100, Add	256.94	
			For >500 To 1,000, Deduct	-89.25	
			For >1,000 To 2,000, Deduct	-135.50	
			For >2,000 To 5,000, Deduct	-223.34	
			For >5,000, Deduct	-370.06	
33 01 30 72-0256	LF		34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,879.36	
			For Vinlyester Resin, Add	1,215.39	
			For Epoxy Resin, Add	143.24	
			For Up To >10, Add	1,297.41	
			For >10 To 25, Add	791.79	
			For >25 To 50, Add	561.89	
			For >50 To 100, Add	280.94	
			For >500 To 1,000, Deduct	-97.55	
			For >1,000 To 2,000, Deduct	-148.11	
			For >2,000 To 5,000, Deduct	-244.12	
			For >5,000, Deduct	-404.49	
33 01 30 72-0257	LF		34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,036.68	
			For Vinlyester Resin, Add	1,318.63	
			For Epoxy Resin, Add	155.41	
			For Up To >10, Add	1,400.67	
			For >10 To 25, Add	853.26	
			For >25 To 50, Add	606.15	
			For >50 To 100, Add	303.07	
			For >500 To 1,000, Deduct	-105.66	
			For >1,000 To 2,000, Deduct	-160.40	
			For >2,000 To 5,000, Deduct	-264.28	
			For >5,000, Deduct	-437.92	
33 01 30 72-0258	LF		34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,198.39	
			For Vinlyester Resin, Add	1,421.85	
			For Epoxy Resin, Add	167.58	
			For Up To >10, Add	1,517.12	
			For >10 To 25, Add	925.73	
			For >25 To 50, Add	657.00	
			For >50 To 100, Add	328.50	
			For >500 To 1,000, Deduct	-114.10	
			For >1,000 To 2,000, Deduct	-173.24	
			For >2,000 To 5,000, Deduct	-285.54	
			For >5,000, Deduct	-473.11	
33 01 30 72-0259	LF		34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,357.96	
			For Vinlyester Resin, Add	1,525.08	
			For Epoxy Resin, Add	179.74	
			For Up To >10, Add	1,627.16	
			For >10 To 25, Add	992.85	
			For >25 To 50, Add	704.64	
			For >50 To 100, Add	352.32	
			For >500 To 1,000, Deduct	-122.38	
			For >1,000 To 2,000, Deduct	-185.81	
			For >2,000 To 5,000, Deduct	-306.26	
			For >5,000, Deduct	-507.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,517.53	
For Vinylster Resin, Add	1,628.31	
For Epoxy Resin, Add	191.91	
For Up To >10, Add	1,737.19	
For >10 To 25, Add	1,059.97	
For >25 To 50, Add	752.29	
For >50 To 100, Add	376.14	
For >500 To 1,000, Deduct	-130.66	
For >1,000 To 2,000, Deduct	-198.38	
For >2,000 To 5,000, Deduct	-326.98	
For >5,000, Deduct	-541.78	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	706.68	
For Vinylster Resin, Add	459.29	
For Epoxy Resin, Add	54.13	
For Up To >10, Add	479.72	
For >10 To 25, Add	290.41	
For >25 To 50, Add	207.05	
For >50 To 100, Add	103.53	
For >500 To 1,000, Deduct	-36.60	
For >1,000 To 2,000, Deduct	-55.53	
For >2,000 To 5,000, Deduct	-91.37	
For >5,000, Deduct	-151.45	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	789.54	
For Vinylster Resin, Add	513.14	
For Epoxy Resin, Add	60.48	
For Up To >10, Add	535.97	
For >10 To 25, Add	324.47	
For >25 To 50, Add	231.33	
For >50 To 100, Add	115.67	
For >500 To 1,000, Deduct	-40.89	
For >1,000 To 2,000, Deduct	-62.04	
For >2,000 To 5,000, Deduct	-102.09	
For >5,000, Deduct	-169.20	
33 01 30 72-0264 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	955.28	
For Vinylster Resin, Add	620.87	
For Epoxy Resin, Add	73.17	
For Up To >10, Add	648.47	
For >10 To 25, Add	392.56	
For >25 To 50, Add	279.89	
For >50 To 100, Add	139.94	
For >500 To 1,000, Deduct	-49.47	
For >1,000 To 2,000, Deduct	-75.06	
For >2,000 To 5,000, Deduct	-123.52	
For >5,000, Deduct	-204.72	
33 01 30 72-0265 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,121.02	
For Vinylster Resin, Add	728.59	
For Epoxy Resin, Add	85.87	
For Up To >10, Add	760.96	
For >10 To 25, Add	460.66	
For >25 To 50, Add	328.44	
For >50 To 100, Add	164.22	
For >500 To 1,000, Deduct	-58.06	
For >1,000 To 2,000, Deduct	-88.09	
For >2,000 To 5,000, Deduct	-144.95	
For >5,000, Deduct	-240.24	
33 01 30 72-0266 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,286.62	
For Vinylster Resin, Add	836.30	
For Epoxy Resin, Add	98.56	
For Up To >10, Add	873.06	
For >10 To 25, Add	528.43	
For >25 To 50, Add	376.79	
For >50 To 100, Add	188.40	
For >500 To 1,000, Deduct	-66.63	
For >1,000 To 2,000, Deduct	-101.09	
For >2,000 To 5,000, Deduct	-166.34	
For >5,000, Deduct	-275.70	
33 01 30 72-0267 LF 36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,452.35	
For Vinylster Resin, Add	944.02	
For Epoxy Resin, Add	111.26	
For Up To >10, Add	985.55	
For >10 To 25, Add	596.53	
For >25 To 50, Add	425.35	
For >50 To 100, Add	212.67	
For >500 To 1,000, Deduct	-75.21	
For >1,000 To 2,000, Deduct	-114.11	
For >2,000 To 5,000, Deduct	-187.77	
For >5,000, Deduct	-311.22	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0268 LF 36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,618.09	
For Vinlyester Resin, Add	1,051.74	
For Epoxy Resin, Add	123.95	
For Up To >10, Add	1,098.07	
For >10 To 25, Add	664.65	
For >25 To 50, Add	473.91	
For >50 To 100, Add	236.96	
For >500 To 1,000, Deduct	-83.79	
For >1,000 To 2,000, Deduct	-127.14	
For >2,000 To 5,000, Deduct	-209.20	
For >5,000, Deduct	-346.74	
33 01 30 72-0269 LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,790.25	
For Vinlyester Resin, Add	1,159.46	
For Epoxy Resin, Add	136.65	
For Up To >10, Add	1,229.83	
For >10 To 25, Add	748.79	
For >25 To 50, Add	532.09	
For >50 To 100, Add	266.05	
For >500 To 1,000, Deduct	-92.86	
For >1,000 To 2,000, Deduct	-140.96	
For >2,000 To 5,000, Deduct	-232.23	
For >5,000, Deduct	-384.83	
33 01 30 72-0270 LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,956.62	
For Vinlyester Resin, Add	1,267.18	
For Epoxy Resin, Add	149.35	
For Up To >10, Add	1,344.24	
For >10 To 25, Add	818.49	
For >25 To 50, Add	581.61	
For >50 To 100, Add	290.80	
For >500 To 1,000, Deduct	-101.49	
For >1,000 To 2,000, Deduct	-154.07	
For >2,000 To 5,000, Deduct	-253.82	
For >5,000, Deduct	-420.60	
33 01 30 72-0271 LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,118.69	
For Vinlyester Resin, Add	1,374.89	
For Epoxy Resin, Add	162.04	
For Up To >10, Add	1,445.75	
For >10 To 25, Add	877.43	
For >25 To 50, Add	624.67	
For >50 To 100, Add	312.33	
For >500 To 1,000, Deduct	-109.80	
For >1,000 To 2,000, Deduct	-166.63	
For >2,000 To 5,000, Deduct	-274.34	
For >5,000, Deduct	-454.65	
33 01 30 72-0272 LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,289.22	
For Vinlyester Resin, Add	1,482.61	
For Epoxy Resin, Add	174.74	
For Up To >10, Add	1,572.61	
For >10 To 25, Add	957.51	
For >25 To 50, Add	680.40	
For >50 To 100, Add	340.20	
For >500 To 1,000, Deduct	-118.74	
For >1,000 To 2,000, Deduct	-180.25	
For >2,000 To 5,000, Deduct	-296.96	
For >5,000, Deduct	-492.08	
33 01 30 72-0273 LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,455.59	
For Vinlyester Resin, Add	1,590.33	
For Epoxy Resin, Add	187.43	
For Up To >10, Add	1,687.02	
For >10 To 25, Add	1,027.20	
For >25 To 50, Add	729.92	
For >50 To 100, Add	364.96	
For >500 To 1,000, Deduct	-127.37	
For >1,000 To 2,000, Deduct	-193.35	
For >2,000 To 5,000, Deduct	-318.55	
For >5,000, Deduct	-527.86	
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,621.95	
For Vinlyester Resin, Add	1,698.05	
For Epoxy Resin, Add	200.13	
For Up To >10, Add	1,801.40	
For >10 To 25, Add	1,096.87	
For >25 To 50, Add	779.41	
For >50 To 100, Add	389.71	
For >500 To 1,000, Deduct	-136.00	
For >1,000 To 2,000, Deduct	-206.45	
For >2,000 To 5,000, Deduct	-340.14	
For >5,000, Deduct	-563.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,788.19	
For Vinylster Resin, Add	1,805.77	
For Epoxy Resin, Add	212.82	
For Up To >10, Add	1,915.40	
For >10 To 25, Add	1,166.22	
For >25 To 50, Add	828.71	
For >50 To 100, Add	414.36	
For >500 To 1,000, Deduct	-144.62	
For >1,000 To 2,000, Deduct	-219.54	
For >2,000 To 5,000, Deduct	-361.69	
For >5,000, Deduct	-599.34	
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,954.56	
For Vinylster Resin, Add	1,913.49	
For Epoxy Resin, Add	225.52	
For Up To >10, Add	2,029.81	
For >10 To 25, Add	1,235.91	
For >25 To 50, Add	878.23	
For >50 To 100, Add	439.11	
For >500 To 1,000, Deduct	-153.25	
For >1,000 To 2,000, Deduct	-232.64	
For >2,000 To 5,000, Deduct	-383.28	
For >5,000, Deduct	-635.11	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	819.65	
For Vinylster Resin, Add	533.42	
For Epoxy Resin, Add	62.87	
For Up To >10, Add	553.88	
For >10 To 25, Add	334.56	
For >25 To 50, Add	238.84	
For >50 To 100, Add	119.42	
For >500 To 1,000, Deduct	-42.42	
For >1,000 To 2,000, Deduct	-64.35	
For >2,000 To 5,000, Deduct	-105.85	
For >5,000, Deduct	-175.45	
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	992.04	
For Vinylster Resin, Add	645.63	
For Epoxy Resin, Add	76.09	
For Up To >10, Add	670.30	
For >10 To 25, Add	404.86	
For >25 To 50, Add	289.03	
For >50 To 100, Add	144.52	
For >500 To 1,000, Deduct	-51.34	
For >1,000 To 2,000, Deduct	-77.89	
For >2,000 To 5,000, Deduct	-128.11	
For >5,000, Deduct	-212.35	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,164.44	
For Vinylster Resin, Add	757.83	
For Epoxy Resin, Add	89.32	
For Up To >10, Add	786.77	
For >10 To 25, Add	475.21	
For >25 To 50, Add	339.25	
For >50 To 100, Add	169.63	
For >500 To 1,000, Deduct	-60.27	
For >1,000 To 2,000, Deduct	-91.42	
For >2,000 To 5,000, Deduct	-150.37	
For >5,000, Deduct	-249.25	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,336.84	
For Vinylster Resin, Add	870.04	
For Epoxy Resin, Add	102.54	
For Up To >10, Add	903.22	
For >10 To 25, Add	545.53	
For >25 To 50, Add	389.46	
For >50 To 100, Add	194.73	
For >500 To 1,000, Deduct	-69.19	
For >1,000 To 2,000, Deduct	-104.96	
For >2,000 To 5,000, Deduct	-172.63	
For >5,000, Deduct	-286.15	
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,509.25	
For Vinylster Resin, Add	982.25	
For Epoxy Resin, Add	115.77	
For Up To >10, Add	1,019.70	
For >10 To 25, Add	615.88	
For >25 To 50, Add	439.69	
For >50 To 100, Add	219.84	
For >500 To 1,000, Deduct	-78.11	
For >1,000 To 2,000, Deduct	-118.50	
For >2,000 To 5,000, Deduct	-194.89	
For >5,000, Deduct	-323.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,681.64	
For Vinlyester Resin, Add	1,094.46	
For Epoxy Resin, Add	128.99	
For Up To >10, Add	1,136.15	
For >10 To 25, Add	686.20	
For >25 To 50, Add	489.90	
For >50 To 100, Add	244.95	
For >500 To 1,000, Deduct	-87.04	
For >1,000 To 2,000, Deduct	-132.03	
For >2,000 To 5,000, Deduct	-217.15	
For >5,000, Deduct	-359.95	
33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,860.59	
For Vinlyester Resin, Add	1,206.66	
For Epoxy Resin, Add	142.21	
For Up To >10, Add	1,272.27	
For >10 To 25, Add	772.93	
For >25 To 50, Add	549.95	
For >50 To 100, Add	274.97	
For >500 To 1,000, Deduct	-96.45	
For >1,000 To 2,000, Deduct	-146.38	
For >2,000 To 5,000, Deduct	-241.05	
For >5,000, Deduct	-399.48	
33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,033.62	
For Vinlyester Resin, Add	1,318.87	
For Epoxy Resin, Add	155.44	
For Up To >10, Add	1,390.61	
For >10 To 25, Add	844.83	
For >25 To 50, Add	601.10	
For >50 To 100, Add	300.55	
For >500 To 1,000, Deduct	-105.42	
For >1,000 To 2,000, Deduct	-160.00	
For >2,000 To 5,000, Deduct	-263.47	
For >5,000, Deduct	-436.63	
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,204.50	
For Vinlyester Resin, Add	1,431.07	
For Epoxy Resin, Add	168.66	
For Up To >10, Add	1,502.53	
For >10 To 25, Add	911.37	
For >25 To 50, Add	649.04	
For >50 To 100, Add	324.52	
For >500 To 1,000, Deduct	-114.23	
For >1,000 To 2,000, Deduct	-173.34	
For >2,000 To 5,000, Deduct	-285.35	
For >5,000, Deduct	-472.92	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,379.68	
For Vinlyester Resin, Add	1,543.28	
For Epoxy Resin, Add	181.89	
For Up To >10, Add	1,627.32	
For >10 To 25, Add	988.65	
For >25 To 50, Add	703.42	
For >50 To 100, Add	351.71	
For >500 To 1,000, Deduct	-123.36	
For >1,000 To 2,000, Deduct	-187.23	
For >2,000 To 5,000, Deduct	-308.31	
For >5,000, Deduct	-510.93	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,552.71	
For Vinlyester Resin, Add	1,655.49	
For Epoxy Resin, Add	195.11	
For Up To >10, Add	1,745.66	
For >10 To 25, Add	1,060.55	
For >25 To 50, Add	754.58	
For >50 To 100, Add	377.29	
For >500 To 1,000, Deduct	-132.33	
For >1,000 To 2,000, Deduct	-200.84	
For >2,000 To 5,000, Deduct	-330.73	
For >5,000, Deduct	-548.09	
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,725.61	
For Vinlyester Resin, Add	1,767.70	
For Epoxy Resin, Add	208.34	
For Up To >10, Add	1,863.63	
For >10 To 25, Add	1,132.15	
For >25 To 50, Add	805.55	
For >50 To 100, Add	402.78	
For >500 To 1,000, Deduct	-141.29	
For >1,000 To 2,000, Deduct	-214.44	
For >2,000 To 5,000, Deduct	-353.12	
For >5,000, Deduct	-585.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,898.64	
For Vinylster Resin, Add	1,879.91	
For Epoxy Resin, Add	221.56	
For Up To >10, Add	1,981.97	
For >10 To 25, Add	1,204.05	
For >25 To 50, Add	856.71	
For >50 To 100, Add	428.35	
For >500 To 1,000, Deduct	-150.26	
For >1,000 To 2,000, Deduct	-228.05	
For >2,000 To 5,000, Deduct	-375.53	
For >5,000, Deduct	-622.34	
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,071.66	
For Vinylster Resin, Add	1,992.11	
For Epoxy Resin, Add	234.78	
For Up To >10, Add	2,100.31	
For >10 To 25, Add	1,275.94	
For >25 To 50, Add	907.86	
For >50 To 100, Add	453.93	
For >500 To 1,000, Deduct	-159.23	
For >1,000 To 2,000, Deduct	-241.66	
For >2,000 To 5,000, Deduct	-397.95	
For >5,000, Deduct	-659.49	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,028.68	
For Vinylster Resin, Add	670.31	
For Epoxy Resin, Add	79.00	
For Up To >10, Add	692.09	
For >10 To 25, Add	417.15	
For >25 To 50, Add	298.17	
For >50 To 100, Add	149.08	
For >500 To 1,000, Deduct	-53.21	
For >1,000 To 2,000, Deduct	-80.71	
For >2,000 To 5,000, Deduct	-132.68	
For >5,000, Deduct	-219.96	
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,207.75	
For Vinylster Resin, Add	787.00	
For Epoxy Resin, Add	92.75	
For Up To >10, Add	812.53	
For >10 To 25, Add	489.72	
For >25 To 50, Add	350.05	
For >50 To 100, Add	175.02	
For >500 To 1,000, Deduct	-62.47	
For >1,000 To 2,000, Deduct	-94.75	
For >2,000 To 5,000, Deduct	-155.78	
For >5,000, Deduct	-258.24	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,386.81	
For Vinylster Resin, Add	903.70	
For Epoxy Resin, Add	106.51	
For Up To >10, Add	932.93	
For >10 To 25, Add	562.28	
For >25 To 50, Add	401.92	
For >50 To 100, Add	200.96	
For >500 To 1,000, Deduct	-71.74	
For >1,000 To 2,000, Deduct	-108.80	
For >2,000 To 5,000, Deduct	-178.87	
For >5,000, Deduct	-296.52	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,565.87	
For Vinylster Resin, Add	1,020.39	
For Epoxy Resin, Add	120.26	
For Up To >10, Add	1,053.36	
For >10 To 25, Add	634.85	
For >25 To 50, Add	453.80	
For >50 To 100, Add	226.90	
For >500 To 1,000, Deduct	-81.00	
For >1,000 To 2,000, Deduct	-122.85	
For >2,000 To 5,000, Deduct	-201.97	
For >5,000, Deduct	-334.81	
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,745.06	
For Vinylster Resin, Add	1,137.09	
For Epoxy Resin, Add	134.01	
For Up To >10, Add	1,174.16	
For >10 To 25, Add	707.73	
For >25 To 50, Add	505.86	
For >50 To 100, Add	252.93	
For >500 To 1,000, Deduct	-90.27	
For >1,000 To 2,000, Deduct	-136.91	
For >2,000 To 5,000, Deduct	-225.09	
For >5,000, Deduct	-373.14	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,930.68	
For Vinlyester Resin, Add	1,253.78	
For Epoxy Resin, Add	147.77	
For Up To >10, Add	1,314.24	
For >10 To 25, Add	796.68	
For >25 To 50, Add	567.56	
For >50 To 100, Add	283.78	
For >500 To 1,000, Deduct	-100.02	
For >1,000 To 2,000, Deduct	-151.78	
For >2,000 To 5,000, Deduct	-249.82	
For >5,000, Deduct	-414.05	
33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,110.36	
For Vinlyester Resin, Add	1,370.47	
For Epoxy Resin, Add	161.52	
For Up To >10, Add	1,436.53	
For >10 To 25, Add	870.81	
For >25 To 50, Add	620.37	
For >50 To 100, Add	310.19	
For >500 To 1,000, Deduct	-109.33	
For >1,000 To 2,000, Deduct	-165.90	
For >2,000 To 5,000, Deduct	-273.07	
For >5,000, Deduct	-452.58	
33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,290.06	
For Vinlyester Resin, Add	1,487.17	
For Epoxy Resin, Add	175.27	
For Up To >10, Add	1,558.86	
For >10 To 25, Add	944.96	
For >25 To 50, Add	673.20	
For >50 To 100, Add	336.60	
For >500 To 1,000, Deduct	-118.64	
For >1,000 To 2,000, Deduct	-180.03	
For >2,000 To 5,000, Deduct	-296.33	
For >5,000, Deduct	-491.12	
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,469.88	
For Vinlyester Resin, Add	1,603.87	
For Epoxy Resin, Add	189.03	
For Up To >10, Add	1,681.54	
For >10 To 25, Add	1,019.41	
For >25 To 50, Add	726.21	
For >50 To 100, Add	363.10	
For >500 To 1,000, Deduct	-127.96	
For >1,000 To 2,000, Deduct	-194.17	
For >2,000 To 5,000, Deduct	-319.61	
For >5,000, Deduct	-529.70	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,649.57	
For Vinlyester Resin, Add	1,720.56	
For Epoxy Resin, Add	202.78	
For Up To >10, Add	1,803.86	
For >10 To 25, Add	1,093.56	
For >25 To 50, Add	779.03	
For >50 To 100, Add	389.52	
For >500 To 1,000, Deduct	-137.27	
For >1,000 To 2,000, Deduct	-208.30	
For >2,000 To 5,000, Deduct	-342.86	
For >5,000, Deduct	-568.24	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,829.26	
For Vinlyester Resin, Add	1,837.26	
For Epoxy Resin, Add	216.53	
For Up To >10, Add	1,926.16	
For >10 To 25, Add	1,167.69	
For >25 To 50, Add	831.85	
For >50 To 100, Add	415.92	
For >500 To 1,000, Deduct	-146.58	
For >1,000 To 2,000, Deduct	-222.43	
For >2,000 To 5,000, Deduct	-366.11	
For >5,000, Deduct	-606.77	
33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,008.96	
For Vinlyester Resin, Add	1,953.95	
For Epoxy Resin, Add	230.29	
For Up To >10, Add	2,048.48	
For >10 To 25, Add	1,241.84	
For >25 To 50, Add	884.67	
For >50 To 100, Add	442.34	
For >500 To 1,000, Deduct	-155.89	
For >1,000 To 2,000, Deduct	-236.55	
For >2,000 To 5,000, Deduct	-389.36	
For >5,000, Deduct	-645.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,188.64	
For Vinlyester Resin, Add	2,070.64	
For Epoxy Resin, Add	244.04	
For Up To >10, Add	2,170.77	
For >10 To 25, Add	1,315.97	
For >25 To 50, Add	937.48	
For >50 To 100, Add	468.74	
For >500 To 1,000, Deduct	-165.20	
For >1,000 To 2,000, Deduct	-250.68	
For >2,000 To 5,000, Deduct	-412.61	
For >5,000, Deduct	-683.84	
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,368.34	
For Vinlyester Resin, Add	2,187.34	
For Epoxy Resin, Add	257.79	
For Up To >10, Add	2,293.10	
For >10 To 25, Add	1,390.12	
For >25 To 50, Add	990.31	
For >50 To 100, Add	495.15	
For >500 To 1,000, Deduct	-174.51	
For >1,000 To 2,000, Deduct	-264.80	
For >2,000 To 5,000, Deduct	-435.86	
For >5,000, Deduct	-722.38	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,548.03	
For Vinlyester Resin, Add	2,304.04	
For Epoxy Resin, Add	271.55	
For Up To >10, Add	2,415.39	
For >10 To 25, Add	1,464.25	
For >25 To 50, Add	1,043.12	
For >50 To 100, Add	521.56	
For >500 To 1,000, Deduct	-183.82	
For >1,000 To 2,000, Deduct	-278.93	
For >2,000 To 5,000, Deduct	-459.12	
For >5,000, Deduct	-760.92	
33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,250.81	
For Vinlyester Resin, Add	816.08	
For Epoxy Resin, Add	96.18	
For Up To >10, Add	837.86	
For >10 To 25, Add	503.91	
For >25 To 50, Add	360.64	
For >50 To 100, Add	180.32	
For >500 To 1,000, Deduct	-64.67	
For >1,000 To 2,000, Deduct	-98.06	
For >2,000 To 5,000, Deduct	-161.14	
For >5,000, Deduct	-267.16	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,436.52	
For Vinlyester Resin, Add	937.26	
For Epoxy Resin, Add	110.46	
For Up To >10, Add	962.21	
For >10 To 25, Add	578.69	
For >25 To 50, Add	414.16	
For >50 To 100, Add	207.08	
For >500 To 1,000, Deduct	-74.27	
For >1,000 To 2,000, Deduct	-112.62	
For >2,000 To 5,000, Deduct	-185.07	
For >5,000, Deduct	-306.82	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,622.25	
For Vinlyester Resin, Add	1,058.44	
For Epoxy Resin, Add	124.74	
For Up To >10, Add	1,086.60	
For >10 To 25, Add	653.49	
For >25 To 50, Add	467.70	
For >50 To 100, Add	233.85	
For >500 To 1,000, Deduct	-83.87	
For >1,000 To 2,000, Deduct	-127.18	
For >2,000 To 5,000, Deduct	-208.99	
For >5,000, Deduct	-346.49	
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,807.97	
For Vinlyester Resin, Add	1,179.63	
For Epoxy Resin, Add	139.03	
For Up To >10, Add	1,210.96	
For >10 To 25, Add	728.27	
For >25 To 50, Add	521.22	
For >50 To 100, Add	260.61	
For >500 To 1,000, Deduct	-93.47	
For >1,000 To 2,000, Deduct	-141.74	
For >2,000 To 5,000, Deduct	-232.92	
For >5,000, Deduct	-386.15	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30 72-0313	LF	40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,000.51	
			For Vinlyester Resin, Add	1,300.81	
			For Epoxy Resin, Add	153.31	
			For Up To >10, Add	1,355.78	
			For >10 To 25, Add	820.10	
			For >25 To 50, Add	584.98	
			For >50 To 100, Add	292.49	
			For >500 To 1,000, Deduct	-103.58	
			For >1,000 To 2,000, Deduct	-157.15	
			For >2,000 To 5,000, Deduct	-258.55	
			For >5,000, Deduct	-428.54	
33 01	30 72-0314	LF	40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,186.87	
			For Vinlyester Resin, Add	1,421.99	
			For Epoxy Resin, Add	167.59	
			For Up To >10, Add	1,482.06	
			For >10 To 25, Add	896.48	
			For >25 To 50, Add	639.46	
			For >50 To 100, Add	319.73	
			For >500 To 1,000, Deduct	-113.23	
			For >1,000 To 2,000, Deduct	-171.79	
			For >2,000 To 5,000, Deduct	-282.63	
			For >5,000, Deduct	-468.46	
33 01	30 72-0315	LF	40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,373.22	
			For Vinlyester Resin, Add	1,543.18	
			For Epoxy Resin, Add	181.87	
			For Up To >10, Add	1,608.31	
			For >10 To 25, Add	972.84	
			For >25 To 50, Add	693.93	
			For >50 To 100, Add	346.96	
			For >500 To 1,000, Deduct	-122.88	
			For >1,000 To 2,000, Deduct	-186.43	
			For >2,000 To 5,000, Deduct	-306.71	
			For >5,000, Deduct	-508.38	
33 01	30 72-0316	LF	40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,559.58	
			For Vinlyester Resin, Add	1,664.36	
			For Epoxy Resin, Add	196.16	
			For Up To >10, Add	1,734.59	
			For >10 To 25, Add	1,049.22	
			For >25 To 50, Add	748.41	
			For >50 To 100, Add	374.21	
			For >500 To 1,000, Deduct	-132.53	
			For >1,000 To 2,000, Deduct	-201.06	
			For >2,000 To 5,000, Deduct	-330.80	
			For >5,000, Deduct	-548.30	
33 01	30 72-0317	LF	40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,745.93	
			For Vinlyester Resin, Add	1,785.55	
			For Epoxy Resin, Add	210.44	
			For Up To >10, Add	1,860.84	
			For >10 To 25, Add	1,125.57	
			For >25 To 50, Add	802.88	
			For >50 To 100, Add	401.44	
			For >500 To 1,000, Deduct	-142.18	
			For >1,000 To 2,000, Deduct	-215.70	
			For >2,000 To 5,000, Deduct	-354.88	
			For >5,000, Deduct	-588.22	
33 01	30 72-0318	LF	40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,932.30	
			For Vinlyester Resin, Add	1,906.73	
			For Epoxy Resin, Add	224.72	
			For Up To >10, Add	1,987.15	
			For >10 To 25, Add	1,201.98	
			For >25 To 50, Add	857.38	
			For >50 To 100, Add	428.69	
			For >500 To 1,000, Deduct	-151.83	
			For >1,000 To 2,000, Deduct	-230.34	
			For >2,000 To 5,000, Deduct	-378.97	
			For >5,000, Deduct	-628.14	
33 01	30 72-0319	LF	40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,118.65	
			For Vinlyester Resin, Add	2,027.91	
			For Epoxy Resin, Add	239.00	
			For Up To >10, Add	2,113.43	
			For >10 To 25, Add	1,278.35	
			For >25 To 50, Add	911.86	
			For >50 To 100, Add	455.93	
			For >500 To 1,000, Deduct	-161.47	
			For >1,000 To 2,000, Deduct	-244.98	
			For >2,000 To 5,000, Deduct	-403.05	
			For >5,000, Deduct	-668.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,305.00	
For Vinylster Resin, Add	2,149.09	
For Epoxy Resin, Add	253.29	
For Up To >10, Add	2,239.68	
For >10 To 25, Add	1,354.71	
For >25 To 50, Add	966.33	
For >50 To 100, Add	483.17	
For >500 To 1,000, Deduct	-171.12	
For >1,000 To 2,000, Deduct	-259.62	
For >2,000 To 5,000, Deduct	-427.13	
For >5,000, Deduct	-707.97	
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,491.36	
For Vinylster Resin, Add	2,270.28	
For Epoxy Resin, Add	267.57	
For Up To >10, Add	2,365.96	
For >10 To 25, Add	1,431.09	
For >25 To 50, Add	1,020.82	
For >50 To 100, Add	510.41	
For >500 To 1,000, Deduct	-180.77	
For >1,000 To 2,000, Deduct	-274.26	
For >2,000 To 5,000, Deduct	-451.22	
For >5,000, Deduct	-747.89	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,677.71	
For Vinylster Resin, Add	2,391.46	
For Epoxy Resin, Add	281.85	
For Up To >10, Add	2,492.21	
For >10 To 25, Add	1,507.44	
For >25 To 50, Add	1,075.28	
For >50 To 100, Add	537.64	
For >500 To 1,000, Deduct	-190.42	
For >1,000 To 2,000, Deduct	-288.90	
For >2,000 To 5,000, Deduct	-475.30	
For >5,000, Deduct	-787.81	
33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>		
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,485.99	
For Vinylster Resin, Add	970.74	
For Epoxy Resin, Add	114.41	
For Up To >10, Add	991.05	
For >10 To 25, Add	594.74	
For >25 To 50, Add	426.18	
For >50 To 100, Add	213.09	
For >500 To 1,000, Deduct	-76.78	
For >1,000 To 2,000, Deduct	-116.41	
For >2,000 To 5,000, Deduct	-191.22	
For >5,000, Deduct	-317.04	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,678.38	
For Vinylster Resin, Add	1,096.41	
For Epoxy Resin, Add	129.22	
For Up To >10, Add	1,119.39	
For >10 To 25, Add	671.78	
For >25 To 50, Add	481.38	
For >50 To 100, Add	240.69	
For >500 To 1,000, Deduct	-86.72	
For >1,000 To 2,000, Deduct	-131.48	
For >2,000 To 5,000, Deduct	-215.98	
For >5,000, Deduct	-358.09	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,870.77	
For Vinylster Resin, Add	1,222.08	
For Epoxy Resin, Add	144.03	
For Up To >10, Add	1,247.74	
For >10 To 25, Add	748.81	
For >25 To 50, Add	536.58	
For >50 To 100, Add	268.29	
For >500 To 1,000, Deduct	-96.66	
For >1,000 To 2,000, Deduct	-146.55	
For >2,000 To 5,000, Deduct	-240.73	
For >5,000, Deduct	-399.14	
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,070.09	
For Vinylster Resin, Add	1,347.75	
For Epoxy Resin, Add	158.84	
For Up To >10, Add	1,396.87	
For >10 To 25, Add	843.17	
For >25 To 50, Add	602.17	
For >50 To 100, Add	301.08	
For >500 To 1,000, Deduct	-107.12	
For >1,000 To 2,000, Deduct	-162.49	
For >2,000 To 5,000, Deduct	-267.23	
For >5,000, Deduct	-442.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0328	LF		42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,263.11	
			For Vinlyester Resin, Add	1,473.42	
			For Epoxy Resin, Add	173.65	
			For Up To >10, Add	1,527.11	
			For >10 To 25, Add	921.77	
			For >25 To 50, Add	658.31	
			For >50 To 100, Add	329.15	
			For >500 To 1,000, Deduct	-117.11	
			For >1,000 To 2,000, Deduct	-177.64	
			For >2,000 To 5,000, Deduct	-292.14	
			For >5,000, Deduct	-484.27	
33 01 30 72-0329	LF		42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,456.13	
			For Vinlyester Resin, Add	1,599.09	
			For Epoxy Resin, Add	188.46	
			For Up To >10, Add	1,657.34	
			For >10 To 25, Add	1,000.38	
			For >25 To 50, Add	714.45	
			For >50 To 100, Add	357.22	
			For >500 To 1,000, Deduct	-127.10	
			For >1,000 To 2,000, Deduct	-192.80	
			For >2,000 To 5,000, Deduct	-317.06	
			For >5,000, Deduct	-525.57	
33 01 30 72-0330	LF		42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,649.14	
			For Vinlyester Resin, Add	1,724.77	
			For Epoxy Resin, Add	203.28	
			For Up To >10, Add	1,787.55	
			For >10 To 25, Add	1,078.96	
			For >25 To 50, Add	770.58	
			For >50 To 100, Add	385.29	
			For >500 To 1,000, Deduct	-137.09	
			For >1,000 To 2,000, Deduct	-207.95	
			For >2,000 To 5,000, Deduct	-341.97	
			For >5,000, Deduct	-566.87	
33 01 30 72-0331	LF		42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,842.17	
			For Vinlyester Resin, Add	1,850.44	
			For Epoxy Resin, Add	218.09	
			For Up To >10, Add	1,917.81	
			For >10 To 25, Add	1,157.60	
			For >25 To 50, Add	826.73	
			For >50 To 100, Add	413.37	
			For >500 To 1,000, Deduct	-147.08	
			For >1,000 To 2,000, Deduct	-223.10	
			For >2,000 To 5,000, Deduct	-366.89	
			For >5,000, Deduct	-608.17	
33 01 30 72-0332	LF		42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,035.19	
			For Vinlyester Resin, Add	1,976.11	
			For Epoxy Resin, Add	232.90	
			For Up To >10, Add	2,048.05	
			For >10 To 25, Add	1,236.20	
			For >25 To 50, Add	882.87	
			For >50 To 100, Add	441.44	
			For >500 To 1,000, Deduct	-157.06	
			For >1,000 To 2,000, Deduct	-238.25	
			For >2,000 To 5,000, Deduct	-391.81	
			For >5,000, Deduct	-649.47	
33 01 30 72-0333	LF		42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,228.21	
			For Vinlyester Resin, Add	2,101.78	
			For Epoxy Resin, Add	247.71	
			For Up To >10, Add	2,178.28	
			For >10 To 25, Add	1,314.81	
			For >25 To 50, Add	939.01	
			For >50 To 100, Add	469.51	
			For >500 To 1,000, Deduct	-167.05	
			For >1,000 To 2,000, Deduct	-253.40	
			For >2,000 To 5,000, Deduct	-416.72	
			For >5,000, Deduct	-690.78	
33 01 30 72-0334	LF		42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,421.22	
			For Vinlyester Resin, Add	2,227.45	
			For Epoxy Resin, Add	262.52	
			For Up To >10, Add	2,308.49	
			For >10 To 25, Add	1,393.39	
			For >25 To 50, Add	995.14	
			For >50 To 100, Add	497.57	
			For >500 To 1,000, Deduct	-177.04	
			For >1,000 To 2,000, Deduct	-268.55	
			For >2,000 To 5,000, Deduct	-441.64	
			For >5,000, Deduct	-732.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,614.24	
For Vinlyester Resin, Add	2,353.12	
For Epoxy Resin, Add	277.33	
For Up To >10, Add	2,438.72	
For >10 To 25, Add	1,472.00	
For >25 To 50, Add	1,051.28	
For >50 To 100, Add	525.64	
For >500 To 1,000, Deduct	-187.03	
For >1,000 To 2,000, Deduct	-283.70	
For >2,000 To 5,000, Deduct	-466.55	
For >5,000, Deduct	-773.38	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,807.28	
For Vinlyester Resin, Add	2,478.80	
For Epoxy Resin, Add	292.14	
For Up To >10, Add	2,568.99	
For >10 To 25, Add	1,550.64	
For >25 To 50, Add	1,107.44	
For >50 To 100, Add	553.72	
For >500 To 1,000, Deduct	-197.02	
For >1,000 To 2,000, Deduct	-298.85	
For >2,000 To 5,000, Deduct	-491.47	
For >5,000, Deduct	-814.68	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	513.87	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic)	555.54	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic)	590.26	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic)	624.99	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic)	659.71	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder	578.01	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder	661.13	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder	744.24	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	626.82	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	675.61	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner	709.04	
33 01 30 74-0018 EA 6" Lateral T-Liner	791.52	
33 01 30 74-0019 EA 8" Lateral T-Liner	917.29	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP)	31.67	
For 7.5mm, Add	2.80	
For 9 mm, Add	5.54	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP)	36.89	
For 7.5mm, Add	3.82	
For 9 mm, Add	7.55	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP)	46.39	
For 7.5mm, Add	5.84	
For 9 mm, Add	11.56	
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,042.84	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	2,017.14	
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	44.96	
For DR 26 Pipe Liner, Add	8.54	
For Up To 75, Add	23.05	
For >75 To 150, Add	11.52	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000, Deduct	-3.24	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	58.02	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
For Up To 75, Add	26.72	
For >75 To 150, Add	13.36	
For >500 To 1,000, Deduct	-0.87	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000, Deduct	-3.49	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	59.86	
For DR 26 Pipe Liner, Add	11.81	
For DR 35 Pipe Liner, Deduct	-5.91	
For Up To 75, Add	28.37	
For >75 To 150, Add	14.18	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.89	
For >2,000, Deduct	-3.78	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	84.64	
For DR 26 Pipe Liner, Add	17.72	
For DR 35 Pipe Liner, Deduct	-8.86	
For DR 41 Pipe Liner, Deduct	-17.72	
For Up To 75, Add	34.82	
For >75 To 150, Add	17.41	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.13	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	118.87	
For DR 26 Pipe Liner, Add	25.94	
For DR 35 Pipe Liner, Deduct	-12.97	
For DR 41 Pipe Liner, Deduct	-25.94	
For Up To 75, Add	43.44	
For >75 To 150, Add	21.72	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 2,000, Deduct	-2.27	
For >2,000, Deduct	-4.54	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	163.24	
For DR 35 Pipe Liner, Deduct	-18.26	
For DR 41 Pipe Liner, Deduct	-36.51	
For Up To 75, Add	55.00	
For >75 To 150, Add	27.50	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	231.16	
For DR 41 Pipe Liner, Deduct	-21.18	
For DR 50 Pipe Liner, Deduct	-42.35	
For Up To 75, Add	71.44	
For >75 To 150, Add	35.72	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.91	
For >2,000, Deduct	-5.82	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	261.56	
For DR 50 Pipe Liner, Deduct	-36.08	
For DR 55 Pipe Liner, Deduct	-60.14	
For Up To 75, Add	79.63	
For >75 To 150, Add	39.81	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-3.15	
For >2,000, Deduct	-6.30	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	319.31	
For DR 60 Pipe Liner, Deduct	-44.46	
For Up To 75, Add	93.66	
For >75 To 150, Add	46.83	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-3.44	
For >2,000, Deduct	-6.88	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5	48.18	
For Up To 75, Add	23.69	
For >75 To 150, Add	11.84	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000, Deduct	-3.24	
For DR 26 Pipe Liner, Add	9.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.02	
For Up To 75, Add	26.72	
For >75 To 150, Add	13.36	
For >500 To 1,000, Deduct	-0.87	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000, Deduct	-3.49	
For DR 26 Pipe Liner, Add	11.60	
For DR 35 Pipe Liner, Deduct	-5.80	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	64.16	
For Up To 75, Add	29.23	
For >75 To 150, Add	14.61	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 2,000, Deduct	-1.89	
For >2,000, Deduct	-3.78	
For DR 26 Pipe Liner, Add	12.89	
For DR 35 Pipe Liner, Deduct	-6.44	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	91.08	
For Up To 75, Add	36.10	
For >75 To 150, Add	18.05	
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 2,000, Deduct	-2.06	
For >2,000, Deduct	-4.13	
For DR 26 Pipe Liner, Add	19.33	
For DR 35 Pipe Liner, Deduct	-9.67	
For DR 41 Pipe Liner, Deduct	-19.33	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	128.53	
For Up To 75, Add	45.38	
For >75 To 150, Add	22.69	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 2,000, Deduct	-2.27	
For >2,000, Deduct	-4.54	
For DR 26 Pipe Liner, Add	28.35	
For DR 35 Pipe Liner, Deduct	-14.18	
For DR 41 Pipe Liner, Deduct	-28.35	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	176.98	
For Up To 75, Add	57.74	
For >75 To 150, Add	28.87	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-2.58	
For >2,000, Deduct	-5.16	
For DR 35 Pipe Liner, Deduct	-19.97	
For DR 41 Pipe Liner, Deduct	-39.95	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	251.35	
For Up To 75, Add	75.48	
For >75 To 150, Add	37.74	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,000, Deduct	-2.91	
For >2,000, Deduct	-5.82	
For DR 41 Pipe Liner, Deduct	-23.20	
For DR 50 Pipe Liner, Deduct	-46.39	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	283.89	
For Up To 75, Add	84.09	
For >75 To 150, Add	42.05	
For >500 To 1,000, Deduct	-1.58	
For >1,000 To 2,000, Deduct	-3.15	
For >2,000, Deduct	-6.30	
For DR 50 Pipe Liner, Deduct	-39.43	
For DR 55 Pipe Liner, Deduct	-65.72	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	347.66	
For Up To 75, Add	99.33	
For >75 To 150, Add	49.66	
For >500 To 1,000, Deduct	-1.72	
For >1,000 To 2,000, Deduct	-3.44	
For >2,000, Deduct	-6.88	
For DR 60 Pipe Liner, Deduct	-48.71	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001	Restoration And Rehabilitation Of Manholes (33 01 30 81)	
	Note: Work is in confined spaces.	
33 01 30 81-0002	Inspection And Ventilation System Set-up (33 01 30 81-0001)	
33 01 30 81-0003	EA Inspect Manhole	166.78
33 01 30 81-0004	EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	12,161.86
	Note: For internal inspection and repair of water mains.	
33 01 30 81-0005	EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	17,216.00
	Note: For internal inspection and repair of water mains	
33 01 30 81-0006	Manhole Seals (33 01 30 81-0001)	
33 01 30 81-0007	Internal Manhole Chimney Seals (33 01 30 81-0006)	
	Note: Cretex.	
33 01 30 81-0008	EA 20" Internal Manhole Chimney Seal.....	521.58
33 01 30 81-0009	EA 22" Internal Manhole Chimney Seal.....	549.77
33 01 30 81-0010	EA 24" Internal Manhole Chimney Seal.....	563.87

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	648.46	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	733.03	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	817.61	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	986.78	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006) Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	761.22	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	803.52	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	859.90	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	930.38	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	1,029.06	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	1,141.84	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	1,282.80	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	49.49	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	66.63	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	46.72	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair.....	63.34	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001) Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	15.58	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	36.19	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001) Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,052.05	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	227.18	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,395.44	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	252.55	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,736.06	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	277.91	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,231.22	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	290.59	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,725.02	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	303.28	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001) Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	129.95	20.22
33 01 30 81-0039 EA Drill And Grout Galvanized Steel Manhole Step	102.29	20.22
33 01 30 81-0040 EA Bolt On Galvanized Steel Manhole Step.....	125.70	20.22
33 01 30 81-0041 EA Drill And Grout Aluminum Manhole Step	111.25	20.22
33 01 30 81-0042 EA Drill And Insert Polypropylene Manhole Step.....	60.67	16.18
33 01 30 81-0043 Manhole Penetration Sealing (33 01 30 81-0001) Note: At new pipe connection to manhole.		
33 01 30 81-0044 EA 6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	375.97	
33 01 30 81-0045 EA >12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	582.06	
33 01 30 81-0046 EA >22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	800.21	
33 01 30 81-0047 Invert Restoration (33 01 30 81-0001) Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0048 Concrete Invert Restoration (33 01 30 81-0047)		
33 01 30 81-0049 EA 2' Diameter, Concrete Invert Restoration.....	363.16	
33 01 30 81-0050 EA 3' Diameter, Concrete Invert Restoration	404.85	
33 01 30 81-0051 EA 4' Diameter, Concrete Invert Restoration.....	446.55	
33 01 30 81-0052 EA 5' Diameter, Concrete Invert Restoration.....	488.24	
33 01 30 81-0053 EA 6' Diameter, Concrete Invert Restoration.....	613.33	
33 01 30 81-0054 SF Square Or Rectangular, Concrete Invert Restoration	35.52	
33 01 30 81-0055 Brick Invert Restoration (33 01 30 81-0047)		
33 01 30 81-0056 EA 2' Diameter, Brick Invert Restoration	533.83	
33 01 30 81-0057 EA 3' Diameter, Brick Invert Restoration	575.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0058 EA 4' Diameter, Brick Invert Restoration	617.22	
33 01 30 81-0059 EA 5' Diameter, Brick Invert Restoration	658.91	
33 01 30 81-0060 EA 6' Diameter, Brick Invert Restoration	700.60	
33 01 30 81-0061 SF Square Or Rectangular, Brick Invert Restoration.....	48.81	
33 01 30 81-0062 Repair In-Kind Of Drainage Structures <small>(33 01 30 81)</small>		
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0063 VLF 2' Diameter, Repair In-Kind Drainage Structure.....	664.83	
33 01 30 81-0064 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	997.25	
33 01 30 81-0065 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,329.76	
33 01 30 81-0066 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	1,662.08	
33 01 30 81-0067 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	1,994.51	
33 01 30 81-0068 VLF 2' x 2', Repair In-Kind Drainage Structure.....	846.92	
33 01 30 81-0069 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,058.66	
33 01 30 81-0070 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,270.39	
33 01 30 81-0071 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,482.12	
33 01 30 81-0072 VLF 4' x 4', Repair In-Kind Drainage Structure.....	1,693.85	
33 01 30 81-0073 VLF 4' x 5', Repair In-Kind Drainage Structure.....	1,905.58	
33 01 30 81-0074 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,117.31	
33 01 30 81-0075 VLF 4' x 8', Repair In-Kind Drainage Structure.....	2,540.77	
33 01 30 81-0076 VLF >32 GSF, Repair In-Kind Drainage Structure	2,964.23	
33 01 30 82 Epoxy Lining for Concrete Manholes <small>(33 01 30)</small>		
33 01 30 82-0001 Epoxy Manhole Restoration, Interior <small>(33 01 30 82)</small>		
33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	334.59	
For 80 Mil Material, Add	37.81	
For 100 Mil Material, Add	75.63	
For 125 Mil Material, Add	117.55	
For 150 Mil Material, Add	159.47	
For 200 Mil Material, Add	229.03	
For 2 To 5 Manholes, Deduct	-23.86	
For 6 To 10 Manholes, Deduct	-39.36	
For >10 Manholes, Deduct	-78.72	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	406.26	
For 80 Mil Material, Add	45.32	
For 100 Mil Material, Add	90.65	
For 125 Mil Material, Add	140.76	
For 150 Mil Material, Add	190.88	
For 200 Mil Material, Add	273.67	
For 2 To 5 Manholes, Deduct	-29.03	
For 6 To 10 Manholes, Deduct	-47.91	
For >10 Manholes, Deduct	-95.82	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	446.13	
For 80 Mil Material, Add	50.42	
For 100 Mil Material, Add	100.84	
For 125 Mil Material, Add	156.74	
For 150 Mil Material, Add	212.63	
For 200 Mil Material, Add	305.39	
For 2 To 5 Manholes, Deduct	-31.82	
For 6 To 10 Manholes, Deduct	-52.48	
For >10 Manholes, Deduct	-104.97	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	557.69	
For 80 Mil Material, Add	63.04	
For 100 Mil Material, Add	126.08	
For 125 Mil Material, Add	195.97	
For 150 Mil Material, Add	265.85	
For 200 Mil Material, Add	381.84	
For 2 To 5 Manholes, Deduct	-39.77	
For 6 To 10 Manholes, Deduct	-65.61	
For >10 Manholes, Deduct	-131.21	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	669.23	
For 80 Mil Material, Add	75.65	
For 100 Mil Material, Add	151.30	
For 125 Mil Material, Add	235.16	
For 150 Mil Material, Add	319.02	
For 200 Mil Material, Add	458.20	
For 2 To 5 Manholes, Deduct	-47.73	
For 6 To 10 Manholes, Deduct	-78.73	
For >10 Manholes, Deduct	-157.45	
33 01 30 83 Lining for Concrete Manholes <small>(33 01 30)</small>		
33 01 30 83-0001 Manhole Lining <small>(33 01 30 83)</small>		
Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002 Cementitious Manhole Restoration, Interior <small>(33 01 30 83-0001)</small>		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	154.85	
For Each Additional 1/2" Thick Material, Add	42.98	
For 2 To 5 Manholes, Deduct	-10.75	
For 6 To 10 Manholes, Deduct	-17.64	
For >10 Manholes, Deduct	-35.28	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior.....	179.61	
For Each Additional 1/2" Thick Material, Add	50.04	
For 2 To 5 Manholes, Deduct	-12.47	
For 6 To 10 Manholes, Deduct	-20.45	
For >10 Manholes, Deduct	-40.89	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	204.35	
For Each Additional 1/2" Thick Material, Add	57.10	
For 2 To 5 Manholes, Deduct	-14.18	
For 6 To 10 Manholes, Deduct	-23.25	
For >10 Manholes, Deduct	-46.50	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	241.46	
For Each Additional 1/2" Thick Material, Add	70.20	
For 2 To 5 Manholes, Deduct	-16.67	
For 6 To 10 Manholes, Deduct	-27.30	
For >10 Manholes, Deduct	-54.61	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	265.32	
For Each Additional 1/2" Thick Material, Add	81.53	
For 2 To 5 Manholes, Deduct	-18.18	
For 6 To 10 Manholes, Deduct	-29.73	
For >10 Manholes, Deduct	-59.46	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	302.56	
For 80 Mil Material, Add	27.14	
For 100 Mil Material, Add	54.28	
For 125 Mil Material, Add	82.85	
For 150 Mil Material, Add	111.42	
For 200 Mil Material, Add	154.30	
For 2 To 5 Manholes, Deduct	-22.26	
For 6 To 10 Manholes, Deduct	-36.96	
For >10 Manholes, Deduct	-73.92	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	368.84	
For 80 Mil Material, Add	32.85	
For 100 Mil Material, Add	65.70	
For 125 Mil Material, Add	100.22	
For 150 Mil Material, Add	134.75	
For 200 Mil Material, Add	186.36	
For 2 To 5 Manholes, Deduct	-27.16	
For 6 To 10 Manholes, Deduct	-45.10	
For >10 Manholes, Deduct	-90.20	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	403.42	
For 80 Mil Material, Add	36.19	
For 100 Mil Material, Add	72.37	
For 125 Mil Material, Add	110.47	
For 150 Mil Material, Add	148.57	
For 200 Mil Material, Add	205.74	
For 2 To 5 Manholes, Deduct	-29.68	
For 6 To 10 Manholes, Deduct	-49.28	
For >10 Manholes, Deduct	-98.56	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	504.25	
For 80 Mil Material, Add	45.23	
For 100 Mil Material, Add	90.46	
For 125 Mil Material, Add	138.07	
For 150 Mil Material, Add	185.69	
For 200 Mil Material, Add	257.15	
For 2 To 5 Manholes, Deduct	-37.10	
For 6 To 10 Manholes, Deduct	-61.60	
For >10 Manholes, Deduct	-123.19	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	605.11	
For 80 Mil Material, Add	54.27	
For 100 Mil Material, Add	108.55	
For 125 Mil Material, Add	165.69	
For 150 Mil Material, Add	222.84	
For 200 Mil Material, Add	308.59	
For 2 To 5 Manholes, Deduct	-44.52	
For 6 To 10 Manholes, Deduct	-73.92	
For >10 Manholes, Deduct	-147.84	
33 01 30 83-0014 Multiplexx™ PVC Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	478.90	
For 2 To 5 Manholes, Deduct	-28.20	
For 6 To 10 Manholes, Deduct	-44.43	
For >10 Manholes, Deduct	-88.86	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVC Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	586.42	
For 2 To 5 Manholes, Deduct	-34.52	
For 6 To 10 Manholes, Deduct	-54.38	
For >10 Manholes, Deduct	-108.77	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 01 30	83-0017	VLF	4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	688.71 -40.11 -63.00 -126.00	
	33 01 30	83-0018	VLF	5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	863.57 -50.27 -78.95 -157.90	
	33 01 30	83-0019	VLF	6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... <i>For 2 To 5 Manholes, Deduct</i> <i>For 6 To 10 Manholes, Deduct</i> <i>For >10 Manholes, Deduct</i>	1,038.44 -60.43 -94.90 -189.81	
33 01 30 86 Manhole Rim Adjustment (33 01 30)						
	33 01 30	86-0001		Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
	33 01 30	86-0002		Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
	33 01 30	86-0003	EA	Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	355.96	
	33 01 30	86-0004	EA	>2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	401.33	
	33 01 30	86-0005	EA	>3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	442.42	
	33 01 30	86-0006	EA	>4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	489.04	
	33 01 30	86-0007	EA	>5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	526.68	
	33 01 30	86-0008		Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
	33 01 30	86-0009	EA	Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	421.10	
	33 01 30	86-0010	EA	>2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	459.41	
	33 01 30	86-0011	EA	>3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	507.77	
	33 01 30	86-0012	EA	>4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	554.37	
	33 01 30	86-0013	EA	>5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	599.24	
	33 01 30	86-0014		>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
	33 01 30	86-0015	EA	>6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	587.35	
	33 01 30	86-0016	EA	7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	639.32	
	33 01 30	86-0017	EA	7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	692.09	
	33 01 30	86-0018	EA	8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	733.72	
	33 01 30	86-0019	EA	9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	797.96	
	33 01 30	86-0020	EA	10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	856.08	
	33 01 30	86-0021	EA	11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	912.86	
	33 01 30	86-0022	EA	12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	970.78	
	33 01 30	86-0023		>12" Rise, Solid Manhole Risers (33 01 30 86)		
	33 01 30	86-0024		Precast Concrete Manhole Riser (33 01 30 86-0023)		
	33 01 30	86-0025	VLF	Up To 26" Diameter Precast Concrete Manhole Riser.....	126.07	
	33 01 30	86-0026	VLF	>26" To 36" Diameter Precast Concrete Manhole Riser	149.92	
	33 01 30	86-0027	VLF	>36" To 48" Diameter Precast Concrete Manhole Riser.....	167.83	
	33 01 30	86-0028	VLF	>48" To 60" Diameter Precast Concrete Manhole Riser.....	343.78	
	33 01 30	86-0029	VLF	>60" To 72" Diameter Precast Concrete Manhole Riser.....	503.32	
33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)						
	33 01 30	89-0001		Set-Up By-Pass Pumping Unit (33 01 30 89) Note: Excludes pump and hose rental. See CSI section 01 22 23 00-0938 for pump rental, 01 22 23 00-0971 for suction hose, 01 22 23 00-0990 for discharge hose.		
	33 01 30	89-0002	EA	Set-up By-Pass Pumping Unit	1,964.37	
	33 01 30	89-0003	EA	Re-Set Up/Move By-Pass Pumping Unit	982.18	
	33 01 30	89-0004		By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-0938 for pump rental.		
	33 01 30	89-0005	DAY	Maintain And Operate By-Pass Pumping Unit	491.09	
	33 01 30	89-0006	WK	Maintain And Operate By-Pass Pumping Unit	2,455.46	
	33 01 30	89-0007	MO	Maintain And Operate By-Pass Pumping Unit	10,312.93	
	33 01 30	89-0008		Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.		
	33 01 30	89-0009		Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
	33 01 30	89-0010	LF	1/2" Temporary Service Hose With Fittings	3.52	
				Note: Includes removal after use.		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0011 LF 3/4" Temporary Service Hose With Fittings Note: Includes removal after use.	4.47	
33 01 30 89-0012 LF 1" Temporary Service Hose With Fittings Note: Includes removal after use.	5.19	
33 01 30 89-0013 LF 1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	6.20	
33 01 30 89-0014 LF 2" Temporary Service Hose With Fittings Note: Includes removal after use.	7.61	
33 01 30 89-0015 EA Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	389.02	
33 01 30 89-0016 Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017 LF 2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	7.81	
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-1.80	
33 01 30 89-0018 LF 4" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	9.89	
For >500 To 1,000, Deduct	-0.70	
For >1,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-2.32	
33 01 30 89-0019 LF 6" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	12.06	
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 5,000, Deduct	-1.62	
For >5,000, Deduct	-2.70	
33 01 30 89-0020 LF 8" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	15.13	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 5,000, Deduct	-1.95	
For >5,000, Deduct	-3.24	
33 01 30 89-0021 Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022 LF Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	2.86	
33 01 30 89-0023 Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024 EA Drill Meter Cover For Temporary Bypass Pipe.....	15.16	
33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)		
33 01 34 13 Septic Tank Solids Removal (33 01 34)		
33 01 34 13-0001 Pump Out Septic Tanks (33 01 34 13)		
33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose.....	0.63	
33 05 Common Work Results for Utilities (33)		
33 05 07 Trenchless Installation of Utility Piping (33 05)		
33 05 07 13 Utility Directional Drilling (33 05 07)		
33 05 07 13-0001 Horizontal Augering (33 05 07 13) Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	23.45	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	28.31	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	38.83	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	50.15	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	89.70	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	130.86	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	157.25	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	187.85	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	325.05	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	407.85	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	503.05	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	574.76	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	743.27	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	800.89	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	871.01	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	913.16	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge	3,799.24	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge.....	7,587.72	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0021 Horizontal Directional Boring <small>(33 05 07 13)</small>		
Note: Excludes receiving pits or dewatering or cost of casing pipe.		
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	12.42	
<i>For Horizontal Boring Through Rock, Add</i>		
	8.09	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground.....	18.63	
<i>For Horizontal Boring Through Rock, Add</i>		
	13.04	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	25.88	
<i>For Horizontal Boring Through Rock, Add</i>		
	18.12	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground.....	32.09	
<i>For Horizontal Boring Through Rock, Add</i>		
	22.46	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground.....	38.29	
<i>For Horizontal Boring Through Rock, Add</i>		
	26.80	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground.....	44.50	
<i>For Horizontal Boring Through Rock, Add</i>		
	31.15	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground.....	51.74	
<i>For Horizontal Boring Through Rock, Add</i>		
	36.22	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground.....	63.32	
<i>For Horizontal Boring Through Rock, Add</i>		
	44.32	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground.....	68.60	
<i>For Horizontal Boring Through Rock, Add</i>		
	48.02	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground.....	73.87	
<i>For Horizontal Boring Through Rock, Add</i>		
	51.71	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground.....	153.02	
<i>For Horizontal Boring Through Rock, Add</i>		
	107.11	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground.....	240.96	
<i>For Horizontal Boring Through Rock, Add</i>		
	168.67	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground.....	367.30	
<i>For Horizontal Boring Through Rock, Add</i>		
	257.11	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground.....	587.68	
<i>For Horizontal Boring Through Rock, Add</i>		
	411.38	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,311.89	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,799.24	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23 Utility Boring and Jacking <small>(33 05 07)</small>		
33 05 07 23-0001 Horizontal Jacking <small>(33 05 07 23)</small>		
Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.		
33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking.....	58.89	
<i>For Horizontal Jacking Through Rock, Add</i>		
	28.53	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking.....	70.62	
<i>For Horizontal Jacking Through Rock, Add</i>		
	34.43	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking.....	95.47	
<i>For Horizontal Jacking Through Rock, Add</i>		
	47.21	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking.....	123.39	
<i>For Horizontal Jacking Through Rock, Add</i>		
	60.98	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking.....	167.24	
<i>For Horizontal Jacking Through Rock, Add</i>		
	83.59	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking.....	245.14	
<i>For Horizontal Jacking Through Rock, Add</i>		
	121.97	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking.....	295.10	
<i>For Horizontal Jacking Through Rock, Add</i>		
	146.55	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking.....	352.35	
<i>For Horizontal Jacking Through Rock, Add</i>		
	175.08	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking.....	551.24	
<i>For Horizontal Jacking Through Rock, Add</i>		
	303.92	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking.....	899.49	
<i>For Horizontal Jacking Through Rock, Add</i>		
	341.09	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking.....	1,046.86	
<i>For Horizontal Jacking Through Rock, Add</i>		
	421.17	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking.....	1,182.62	
<i>For Horizontal Jacking Through Rock, Add</i>		
	481.57	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking.....	1,270.55	
<i>For Horizontal Jacking Through Rock, Add</i>		
	520.04	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking.....	1,377.57	
<i>For Horizontal Jacking Through Rock, Add</i>		
	560.33	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking.....	1,472.85	
<i>For Horizontal Jacking Through Rock, Add</i>		
	609.82	

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge.....	3,311.89	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge.....	3,799.24	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge.....	5,171.62	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge.....	7,587.72	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)**33 05 07 24-0001****Casing Pipe (33 05 07 24)**

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002**Steel Pipe (33 05 07 24-0001)**

33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine.....	17.10	
Note: Includes pipe welding.		
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine.....	18.11	
Note: Includes pipe welding.		
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine.....	19.57	
Note: Includes pipe welding.		
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine.....	21.06	
Note: Includes pipe welding.		
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine.....	26.68	
Note: Includes pipe welding.		
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine.....	30.19	
Note: Includes pipe welding.		
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine.....	33.70	
Note: Includes pipe welding.		

33 05 07 24-0010**Polyethylene Pipe (33 05 07 24-0001)**

33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	6.59	
Note: Includes pipe welding.		
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine.....	7.18	
Note: Includes pipe welding.		
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	7.78	
Note: Includes pipe welding.		
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	8.32	
Note: Includes pipe welding.		
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine.....	8.90	
Note: Includes pipe welding.		
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	9.55	
Note: Includes pipe welding.		
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine.....	10.23	
Note: Includes pipe welding.		
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine.....	12.60	
Note: Includes pipe welding.		
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine.....	14.06	
Note: Includes pipe welding.		
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine.....	15.52	
Note: Includes pipe welding.		
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine.....	20.57	
Note: Includes pipe welding.		
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine.....	28.51	
Note: Includes pipe welding.		

33 05 09 Piping Specials for Utilities (33 05)**33 05 09 23****Adapters for Utility Piping (33 05 09)**

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33**Thrust Restraint for Utility Piping (33 05 09)**

See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.

33 05 16**Cast-Iron Utility Pipe (33 05)**

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17**Copper Utility Pipe and Tubing (33 05)**

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19**Ductile-Iron Utility Pipe (33 05)**

See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24**Steel Utility Pipe (33 05)****33 05 24 23****Steel Pipe for Water Service (33 05 24)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27	Corrugated Metal Utility Pipe <small>(33 05)</small>		
33 05 27 13	Corrugated Metal Culvert Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0455 for corrugated metal culvert pipe.		
33 05 27 23	Corrugated Metal Slotted Pipe <small>(33 05 27)</small> See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
33 05 27 33	Corrugated Metal Culvert Arch Pipe <small>(33 05 27)</small> See CSI section 33 42 11 00-0799 for corrugated metal culvert arch pipe.		
33 05 31	Thermoplastic Utility Pipe <small>(33 05)</small>		
33 05 31 11	Polyvinyl Chloride Gravity Sewer Pipe <small>(33 05 31)</small> See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13	Polyvinyl Chloride Pressure Pipe <small>(33 05 31)</small> See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.		
33 05 31 16	Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) <small>(33 05 31)</small> See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
33 05 33	Polyethylene Utility Pipe <small>(33 05)</small>		
33 05 33 13	Corrugated-Wall, Smooth Interior HDPE Gravity Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.		
33 05 33 23	Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) <small>(33 05 33)</small> See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
33 05 33 33	Corrugated, Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.		
33 05 33 36	Corrugated, Non-Perforated HDPE Drainage Pipe <small>(33 05 33)</small> See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
33 05 33 53	HDPE Gas Utility Pipe <small>(33 05 33)</small> See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.		
33 05 33 56	Medium-Density Polyethylene Gas Utility Pipe <small>(33 05 33)</small> See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.		
33 05 33 63	HDPE Communication Duct <small>(33 05 33)</small>		
33 05 33 63-0001	ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine <small>(33 05 33 63)</small> Note: Excludes boring.		
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.26	
	For Up To 250, Add	0.10	
	For >250 To 500, Add	0.07	
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.66	
	For Up To 250, Add	0.12	
	For >250 To 500, Add	0.08	
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.96	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.35	
	For Up To 250, Add	0.16	
	For >250 To 500, Add	0.11	
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.79	
	For Up To 250, Add	0.34	
	For >250 To 500, Add	0.23	
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.29	
	For Up To 250, Add	0.52	
	For >250 To 500, Add	0.35	
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.33	
	For Up To 250, Add	0.11	
	For >250 To 500, Add	0.07	
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.79	
	For Up To 250, Add	0.14	
	For >250 To 500, Add	0.09	
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.06	
	For Up To 250, Add	0.15	
	For >250 To 500, Add	0.10	

33 Utilities**33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0011 LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.61	
For Up To 250, Add	0.20	
For >250 To 500, Add	0.14	
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.37	
For Up To 250, Add	0.43	
For >250 To 500, Add	0.29	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.02	
For Up To 250, Add	0.63	
For >250 To 500, Add	0.42	
33 05 39 Concrete Pipe <small>(33 05)</small>		
33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) <small>(33 05)</small>		
<small>39)</small> See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.		
33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts <small>(33 05 39)</small>		
See CSI section 33 42 11 00-0001 for reinforced concrete pipe.		
33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts <small>(33 05 39)</small>		
See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.		
33 05 41 Vitrified Clay Utility Pipe <small>(33 05)</small>		
See CSI section 33 42 11 00-0353 for vitrified clay piping.		
33 05 61 Concrete Manholes <small>(33 05)</small>		
33 05 61 00-0001 Manholes <small>(33 05 61)</small>		
33 05 61 00-0002 Precast Concrete Manholes <small>(33 05 61 00-0001)</small>		
Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover. See CSI section 33 05 84 00-0002 for top slabs.		
33 05 61 00-0003 3' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,415.45	262.94
For Bitumastic Coating, Add	63.84	
For Epoxy Coating, Add	122.00	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	1,931.10	377.67
For Bitumastic Coating, Add	95.76	
For Epoxy Coating, Add	182.99	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	2,609.29	573.68
For Bitumastic Coating, Add	127.68	
For Epoxy Coating, Add	243.99	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....	276.95	66.92
Note: For depths greater than 8'. For Bitumastic Coating, Add	15.96	
For Epoxy Coating, Add	30.50	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	297.94	66.92
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	472.62	66.92
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	378.81	66.92
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....	538.59	66.92
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole.....	1,915.10	301.18
For Bitumastic Coating, Add	63.84	
For Epoxy Coating, Add	122.00	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole.....	2,558.45	411.13
For Bitumastic Coating, Add	95.76	
For Epoxy Coating, Add	182.99	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole.....	3,393.80	621.49
For Bitumastic Coating, Add	127.68	
For Epoxy Coating, Add	243.99	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole.....	365.89	78.88
Note: For depths greater than 8'. For Bitumastic Coating, Add	15.96	
For Epoxy Coating, Add	30.50	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole.....	396.77	78.88
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole.....	653.75	78.88
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole.....	515.75	78.88
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole.....	750.82	78.88
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole.....	3,545.08	334.64
For Bitumastic Coating, Add	82.26	
For Epoxy Coating, Add	196.67	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole.....	4,723.84	458.94
For Bitumastic Coating, Add	123.38	
For Epoxy Coating, Add	295.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	6,115.43 164.51 393.34	688.41
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	638.70 20.56 49.17	86.05
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	4,739.45 94.17 230.25	372.89
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	6,178.33 141.26 345.37	506.75
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	7,855.50 188.34 460.50	764.90
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	773.84 23.54 57.56	95.61
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	7,432.96 200.26 402.34	411.13
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	9,618.34 300.38 603.51	560.77
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	12,065.69 400.51 804.68	841.40
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	1,153.40 50.06 100.59	105.17
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes <small>(33 05 61 00-0002)</small>		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	10,730.15 236.75 490.42	473.28
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	13,920.15 355.12 735.63	645.38
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole..... <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	17,411.35 473.49 980.84	968.08
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. <i>For Bitumastic Coating, Add</i> <i>For Epoxy Coating, Add</i>	1,661.93 59.19 122.60	119.52
33 05 63 Concrete Vaults and Chambers <small>(33 05)</small>		
33 05 63 00-0001 Underground Utility Vaults And Structures <small>(33 05 63)</small> See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002 Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small> Note: Sizes given are for inside dimensions.		
33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0004 EA 4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	2,981.94	
33 05 63 00-0005 EA 4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,886.99	
33 05 63 00-0006 EA 5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,412.64	
33 05 63 00-0007 EA 5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,404.42	
33 05 63 00-0008 EA 6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,967.39	
33 05 63 00-0009 EA 6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,046.81	
33 05 63 00-0010 EA 6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,127.23	
33 05 63 00-0011 EA 6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,297.48	
33 05 63 00-0012 EA 6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	10,297.48	

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0013 EA 6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,966.15	
33 05 63 00-0014 EA 8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,302.60	
33 05 63 00-0015 EA 8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,557.41	
33 05 63 00-0016 EA 8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,232.09	
33 05 63 00-0017 EA 8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,767.18	
33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019 EA 4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,383.21	
33 05 63 00-0020 EA 4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,691.50	
33 05 63 00-0021 EA 4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,242.39	
33 05 63 00-0022 EA 5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,975.61	
33 05 63 00-0023 EA 5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,043.07	
33 05 63 00-0024 EA 6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,233.85	
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,572.92	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,318.57	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,198.19	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,067.14	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,903.39	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,232.96	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,233.50	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,867.20	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,433.05	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,582.74	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,638.23	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,538.56	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,680.77	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,868.12	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,098.02	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,327.92	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,098.90	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,168.18	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,503.25	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,908.49	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,233.88	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,968.24	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,434.15	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,318.50	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,623.12	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,434.47	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0053		12' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>		
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,768.86	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,149.20	
33 05 63 00-0056		Meter Pit <small>(33 05 63 00-0001)</small>		
33 05 63 00-0057		Precast Concrete Meter Pit <small>(33 05 63 00-0056)</small>		
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	2,933.76	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	3,974.73	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	4,985.56	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	6,174.24	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	8,524.03	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	4,445.60	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	6,174.24	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	7,950.46	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	9,918.65	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	14,086.09	
33 05 63 00-0068		Handhole Or Pull Box Enclosures <small>(33 05 63 00-0001)</small>		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0068)</small>		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0069)</small>		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0070)</small>		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	277.51	21.30
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	242.00	47.31
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	369.38	70.96
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	428.40	70.96
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	408.90	70.96
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	494.02	70.96
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	481.18	70.96
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	653.55	70.96
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	927.75	94.62
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,298.72	94.62
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	845.94	130.10
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	962.11	130.10
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,566.44	130.10
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	903.60	141.92
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,284.13	141.92
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,595.31	141.92
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,331.32	141.92
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,310.13	220.50
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,882.85	220.50
33 05 63 00-0092		Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	354.62	21.30
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	461.21	70.96
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	556.22	70.96
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	513.69	70.96

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	586.45	70.96
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	605.53	70.96
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	778.97	70.96
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,041.23	130.10
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,157.40	130.10
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,761.75	130.10
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,538.34	220.50
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,115.41	220.50
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	453.85	21.30
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	384.06	21.30
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	317.87	70.96
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	359.05	70.96
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	108.38	21.30
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	166.74	21.30
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	268.03	21.30
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	280.29	21.30
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	237.72	47.31
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	256.52	47.31
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	164.23	21.30
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	187.20	21.30
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	254.57	47.31
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	286.18	47.31
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	265.72	47.31
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	319.79	70.96
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	350.79	70.96
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	373.85	70.96
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	408.58	70.96
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	477.84	70.96
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	519.85	70.96
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	565.82	70.96
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	594.73	70.96
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	709.85	94.62
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	720.09	130.10
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	921.43	130.10
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,107.33	130.10
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,224.73	130.10
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,341.51	130.10
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,533.57	220.50
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,122.00	220.50
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,271.11	220.50
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,556.24	220.50
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,553.31	220.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,659.75	220.50
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,864.44	220.50
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,717.96	236.25
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,862.48	236.25
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,046.99	236.25
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,120.81	236.25
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,146.47	236.25
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,427.61	236.25
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,881.63	236.25
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,474.00	236.25
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,783.42	252.00
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,427.94	252.00
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,388.47	252.00
33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.79	70.96
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	485.88	70.96
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	181.60	21.30
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	261.36	21.30
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	349.53	21.30
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	361.81	21.30
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	318.00	47.31
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.09	47.31
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.58	47.31
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	244.07	21.30
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	287.98	21.30
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	348.16	47.31
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.77	47.31
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	360.31	47.31
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	424.20	70.96
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	455.59	70.96
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	498.45	70.96
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	532.96	70.96
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	602.01	70.96
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	644.20	70.96
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	689.98	70.96
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	719.08	70.96
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	881.63	94.62
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	915.40	130.10
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,116.49	130.10
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,302.19	130.10
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,419.41	130.10

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,536.58	130.10
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,348.05	220.50
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,497.38	220.50
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,782.29	220.50
33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	390.65	70.96
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	453.43	70.96
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	134.92	21.30
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	220.38	21.30
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	315.43	21.30
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	327.93	21.30
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	295.55	47.31
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	331.94	47.31
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	193.17	21.30
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	313.43	47.31
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	358.76	47.31
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	325.21	47.31
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	419.39	70.96
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	481.36	70.96
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	501.97	70.96
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	551.04	70.96
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	596.18	70.96
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	638.80	70.96
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	715.12	70.96
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	725.76	70.96
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	894.94	94.62
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	932.65	130.10
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,154.74	130.10
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,374.38	130.10
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,520.27	130.10
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,666.15	130.10
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,805.37	220.50
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,393.82	220.50
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,554.56	220.50
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,839.49	220.50
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,965.18	220.50
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,004.53	220.50
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,386.33	220.50
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,217.59	236.25
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,292.27	236.25
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,504.09	236.25
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,664.41	236.25
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,450.11	236.25
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,023.48	236.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,628.63	236.25
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,885.89	236.25
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,491.05	252.00
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,135.83	252.00
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,566.70	252.00
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	497.55	70.96
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	580.50	70.96
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	207.55	21.30
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	314.82	21.30
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	396.76	21.30
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	409.42	21.30
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	389.14	47.31
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	425.30	47.31
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	296.96	21.30
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	406.59	47.31
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.92	47.31
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	393.08	47.31
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	524.22	70.96
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	586.19	70.96
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	626.32	70.96
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	675.41	70.96
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	720.54	70.96
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	763.18	70.96
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	839.51	70.96
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	850.11	70.96
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,066.50	94.62
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,127.94	130.10
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,349.83	130.10
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,569.23	130.10
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,715.22	130.10
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,861.22	130.10
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,620.08	220.50
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,781.04	220.50
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,065.77	220.50
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures <small>(33 05 63 00-0105)</small>		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	416.71	70.96
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	281.39	47.31
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	316.34	47.31
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	371.35	70.96
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	292.84	47.31
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure.....	326.31	47.31

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions <small>(33 05 63 00-0069)</small>		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	306.28	70.96
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	342.70	70.96
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	394.59	94.62
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	430.35	94.62
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	511.55	130.10
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	909.86	220.50
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	870.76	220.50
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	879.30	220.50
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,177.78	236.25
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,852.64	252.00
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,420.58	252.00
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	497.40	70.96
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	519.65	70.96
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	557.62	94.62
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	593.77	94.62
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	690.36	130.10
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,123.45	220.50
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	388.62	70.96
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	432.51	70.96
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	574.52	130.10
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,135.91	236.25
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0069)</small>		
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers <small>(33 05 63 00-0290)</small>		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	107.65	9.47
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.06	9.47
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	101.04	9.47
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	109.33	9.47
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	110.39	9.46
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	126.72	9.46
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	146.93	9.46
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	966.75	28.35
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	846.28	28.35
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,265.87	28.35
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,280.18	28.35
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,449.95	28.35
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,579.63	28.35
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,537.08	28.35
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	92.12	9.46
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	132.22	9.46
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	134.08	9.46
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	168.83	9.46
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	127.24	9.46
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	199.81	9.46
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	156.77	9.46
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	322.27	9.46
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	282.05	14.19
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	353.69	14.19
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	455.96	16.56
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	641.30	22.05
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	666.52	42.00
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	170.91	9.46
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	243.91	9.46
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	277.60	9.46
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	461.94	9.46
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	380.53	14.19
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	643.53	16.56
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	844.48	22.05

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	134.72	9.46
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	191.08	9.46
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	276.40	14.19
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	345.30	14.19
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	341.21	14.19
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	615.72	22.05
33 05 63 00-0406 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	638.46	25.20
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0408 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	995.47	28.35
33 05 63 00-0409 EA 36" x 36", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,440.05	28.35
33 05 63 00-0410 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	835.37	42.00
33 05 63 00-0411 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,106.77	42.00
33 05 63 00-0412 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,182.15	28.35
33 05 63 00-0413 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,610.03	28.35
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)		
33 05 63 00-0415 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	387.53	14.19
33 05 63 00-0416 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	721.38	22.05
33 05 63 00-0417 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	754.50	42.00
33 05 63 00-0418 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	62.62	9.47
33 05 63 00-0419 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	103.58	9.47
33 05 63 00-0420 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	113.94	9.47
33 05 63 00-0421 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	120.80	9.47
33 05 63 00-0422 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	106.02	9.46
33 05 63 00-0423 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	186.50	9.46
33 05 63 00-0424 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	519.11	14.19
33 05 63 00-0425 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	958.68	22.05
33 05 63 00-0426 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,004.89	42.00
33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover	702.02	229.57
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,152.08	344.35
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	103.20	
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover	1,424.48	459.14
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	179.78	
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover	1,467.70	459.14
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	226.57	
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover	1,748.30	573.92
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	272.30	
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover	1,820.61	573.92
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	300.73	
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover	2,120.96	688.71
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	350.89	
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover	2,443.69	803.50
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	494.42	
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover	2,334.05	688.71
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	540.21	
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover	2,352.38	688.71
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	370.01	
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover	584.76	229.57
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover	680.77	258.27
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover	815.37	286.96
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 81 Metallic Castings for Utility Structures (33 05)		
33 05 81 00-0001 Manhole Accessories (33 05 81)		
33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 81 00-0003 EA Cast Iron Manhole Step For New Manholes	85.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes.....	58.14	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes.....	67.10	
33 05 81 00-0006 Manhole Covers And Frames <small>(33 05 81)</small>		
Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 81 00-0007 Regular Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame	1,082.49	82.23
For Ductile Iron Castings, Add	583.73	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame	653.36	82.23
For Ductile Iron Castings, Add	283.34	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame	754.85	95.61
For Ductile Iron Castings, Add	327.60	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame	1,131.87	106.13
For Ductile Iron Castings, Add	569.21	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame	990.66	114.74
For Ductile Iron Castings, Add	451.56	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame	1,032.71	119.52
For Ductile Iron Castings, Add	471.92	
33 05 81 00-0014 Watertight Type Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0015 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,191.05	67.88
For Ductile Iron Castings, Add	644.59	
33 05 81 00-0016 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,216.31	67.88
For Ductile Iron Castings, Add	646.70	
33 05 81 00-0017 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,248.66	79.36
For Ductile Iron Castings, Add	650.97	
33 05 81 00-0018 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,473.28	88.92
For Ductile Iron Castings, Add	789.40	
33 05 81 00-0019 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,689.82	90.83
For Ductile Iron Castings, Add	931.90	
33 05 81 00-0020 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,772.87	92.74
For Ductile Iron Castings, Add	986.75	
33 05 81 00-0021 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	1,847.55	95.61
For Ductile Iron Castings, Add	1,035.61	
33 05 81 00-0022 Aluminum Manhole Covers And Frames <small>(33 05 81 00-0006)</small>		
33 05 81 00-0023 EA 12" Square Aluminum Manhole Cover With Frame	765.36	29.25
33 05 81 00-0024 EA 18" Square Aluminum Manhole Cover With Frame	1,377.88	32.38
33 05 81 00-0025 EA 24" Square Aluminum Manhole Cover With Frame	1,966.08	37.60
33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame <small>(33 05 81 00-0006)</small>		
Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0027 EA Removal And Reinstallation Of Manhole Cover And Frame	383.35	
33 05 83 Non-Metallic Accessories for Utility Structures <small>(33 05)</small>		
33 05 83 00-0001 Manhole Accessories <small>(33 05 83)</small>		
33 05 83 00-0002 Steps For Cast-In-Place Manholes <small>(33 05 83 00-0001)</small>		
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	45.19	
33 05 83 00-0004 Rainguard Inflow Protectors <small>(33 05 83)</small>		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	119.34	20.22
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	138.18	20.22
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	165.22	24.27
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	177.13	24.27
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	219.83	28.31
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	234.46	28.31
33 05 84 Accessories for Utility Structures <small>(33 05)</small>		
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors.		
33 05 84 00-0001 Manhole Accessories <small>(33 05 84)</small>		
33 05 84 00-0002 Precast Concrete Manhole Tops <small>(33 05 84 00-0001)</small>		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops <small>(33 05 84 00-0002)</small>		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	552.35	71.71
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	782.57	77.45
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,068.81	83.18
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,284.44	88.92

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0008 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone.....	889.59	89.64
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone.....	992.42	93.23
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,095.30	96.80
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,296.18	102.79
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,501.89	109.95
33 05 84 00-0014 Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
33 05 84 00-0015 EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,033.09	83.18
33 05 84 00-0016 EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,324.35	88.92
33 05 84 00-0017 EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	1,738.93	88.92
33 05 84 00-0018 EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	2,735.05	88.92
33 05 84 00-0019 EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	3,510.01	88.92
33 05 84 00-0020 EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab.....	5,070.55	88.92
33 05 84 00-0021 Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0022 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0021)		
33 05 84 00-0023 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	110.06	
33 05 84 00-0024 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	164.54	
33 05 84 00-0025 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	185.37	
33 05 84 00-0026 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	284.25	
33 05 84 00-0027 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	398.83	
33 05 84 00-0028 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	526.40	
33 05 84 00-0029 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	957.20	
33 05 84 00-0030 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,331.49	
33 05 84 00-0031 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,110.96	
33 05 84 00-0032 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,482.34	
33 05 84 00-0033 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0021) Note: Fernco CMA.		
33 05 84 00-0034 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	97.77	
33 05 84 00-0035 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	135.59	
33 05 84 00-0036 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	171.26	
33 05 84 00-0037 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	206.77	
33 05 84 00-0038 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	239.91	
33 05 84 00-0039 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0021)		
33 05 84 00-0040 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	264.31	
33 05 84 00-0041 Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0042 EA Single Channel Concrete Invert For Manholes.....	453.79	
33 05 84 00-0043 EA Double Channel Concrete Invert For Manholes.....	650.16	
33 05 84 00-0044 EA Triple Channel Concrete Invert For Manholes.....	877.15	
33 05 84 00-0045 EA Quad Channel Concrete Invert For Manholes.....	1,104.07	
33 05 84 00-0046 EA Single Channel Brick Invert For Manholes.....	618.60	
33 05 84 00-0047 EA Double Channel Brick Invert For Manholes.....	926.26	
33 05 84 00-0048 EA Triple Channel Brick Invert For Manholes.....	1,239.27	
33 05 84 00-0049 EA Quad Channel Brick Invert For Manholes.....	1,548.51	
33 05 84 00-0050 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0051 Polyurethane Protective Coating For New Manholes (33 05 84 00-0050)		
33 05 84 00-0052 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	191.91	
For 80 Mil Material, Add	27.11	
For 100 Mil Material, Add	54.23	
For 125 Mil Material, Add	85.44	
For 150 Mil Material, Add	116.66	
For 200 Mil Material, Add	171.96	
For 2 To 5 Manholes, Deduct	-13.16	
For 6 To 10 Manholes, Deduct	-21.53	
For >10 Manholes, Deduct	-43.05	
33 05 84 00-0053 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	231.88	
For 80 Mil Material, Add	32.24	
For 100 Mil Material, Add	64.49	
For 125 Mil Material, Add	101.53	
For 150 Mil Material, Add	138.56	
For 200 Mil Material, Add	203.92	
For 2 To 5 Manholes, Deduct	-15.95	
For 6 To 10 Manholes, Deduct	-26.11	
For >10 Manholes, Deduct	-52.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior	255.89	
<i>For 80 Mil Material, Add</i>	36.15	
<i>For 100 Mil Material, Add</i>	72.31	
<i>For 125 Mil Material, Add</i>	113.93	
<i>For 150 Mil Material, Add</i>	155.56	
<i>For 200 Mil Material, Add</i>	229.30	
<i>For 2 To 5 Manholes, Deduct</i>	-17.55	
<i>For 6 To 10 Manholes, Deduct</i>	-28.70	
<i>For >10 Manholes, Deduct</i>	-57.41	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior	319.91	
<i>For 80 Mil Material, Add</i>	45.21	
<i>For 100 Mil Material, Add</i>	90.41	
<i>For 125 Mil Material, Add</i>	142.47	
<i>For 150 Mil Material, Add</i>	194.52	
<i>For 200 Mil Material, Add</i>	286.73	
<i>For 2 To 5 Manholes, Deduct</i>	-21.94	
<i>For 6 To 10 Manholes, Deduct</i>	-35.88	
<i>For >10 Manholes, Deduct</i>	-71.77	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior	371.21	
<i>For 80 Mil Material, Add</i>	53.30	
<i>For 100 Mil Material, Add</i>	106.59	
<i>For 125 Mil Material, Add</i>	168.10	
<i>For 150 Mil Material, Add</i>	229.61	
<i>For 200 Mil Material, Add</i>	338.99	
<i>For 2 To 5 Manholes, Deduct</i>	-25.38	
<i>For 6 To 10 Manholes, Deduct</i>	-41.47	
<i>For >10 Manholes, Deduct</i>	-82.95	
33 05 84 00-0057 Polyvinyl Chloride (PVC) Liner <small>(33 05 84 00-0050)</small>		
<small>Note: For new manholes and shop applied.</small>		
33 05 84 00-0058 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	231.52	
33 05 84 00-0059 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	283.80	
33 05 84 00-0060 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	346.33	
33 05 84 00-0061 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	434.93	
33 05 84 00-0062 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	523.53	
33 05 84 00-0063 SF Polyvinyl Chloride (PVC) Liner At Structures	56.94	
33 05 84 00-0064 Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0001)</small>		
33 05 84 00-0065 18" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0064)</small>		
33 05 84 00-0066 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	82.96	
33 05 84 00-0067 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	90.94	
33 05 84 00-0068 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	98.93	
33 05 84 00-0069 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	106.91	
33 05 84 00-0070 24" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0064)</small>		
33 05 84 00-0071 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	93.19	
33 05 84 00-0072 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	102.26	
33 05 84 00-0073 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	111.33	
33 05 84 00-0074 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	120.41	
33 05 84 00-0075 30" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0064)</small>		
33 05 84 00-0076 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	103.18	
33 05 84 00-0077 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	113.30	
33 05 84 00-0078 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	123.42	
33 05 84 00-0079 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	133.54	
33 05 84 00-0080 Bentonite Collar <small>(33 05 84 00-0001)</small>		
33 05 84 00-0081 Bentonite Collar At Manhole Connections <small>(33 05 84 00-0080)</small>		
33 05 84 00-0082 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	160.73	
33 05 84 00-0083 EA >12" To 21", Bentonite Collar At Manhole Connection	254.97	
33 05 84 00-0084 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	407.46	
33 05 84 00-0085 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	956.35	
33 05 84 00-0086 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,468.73	
33 05 84 00-0087 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,660.21	
33 05 84 00-0088 Waste Water Collection System Taps <small>(33 05 84)</small>		
<small>Note: For tapping existing structures only. Includes grout.</small>		
33 05 84 00-0089 Brick Manhole Taps <small>(33 05 84 00-0088)</small>		
33 05 84 00-0090 EA 4" Tap In 6" Brick Manhole	479.77	
33 05 84 00-0091 EA 6" Tap In 6" Brick Manhole	536.15	
33 05 84 00-0092 EA 8" Tap In 6" Brick Manhole	591.52	
33 05 84 00-0093 EA 10" Tap In 6" Brick Manhole	646.77	
33 05 84 00-0094 EA 12" Tap In 6" Brick Manhole	713.35	
33 05 84 00-0095 EA 15" Tap In 6" Brick Manhole	768.50	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0096 Precast Concrete Manhole Tap (33 05 84 00-0088)		
33 05 84 00-0097 EA 4" Tap In Existing Precast Concrete Manhole.....	702.99	
33 05 84 00-0098 EA 6" Tap In Existing Precast Concrete Manhole.....	787.55	
33 05 84 00-0099 EA 8" Tap In Existing Precast Concrete Manhole.....	880.63	
33 05 84 00-0100 EA 10" Tap In Existing Precast Concrete Manhole.....	963.51	
33 05 84 00-0101 EA 12" Tap In Existing Precast Concrete Manhole.....	1,046.22	
33 05 84 00-0102 EA 15" Tap In Existing Precast Concrete Manhole.....	1,130.95	
33 05 84 00-0103 EA 18" Tap In Existing Precast Concrete Manhole.....	1,301.51	
33 05 84 00-0104 EA 24" Tap In Existing Precast Concrete Manhole.....	1,672.93	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 23 Utility Identification Warning Tape (33 05 97)		
33 05 97 23-0001 Non-Detectable Utility Warning Tape (33 05 97 23)		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0002 CLF 3" Non-Detectable Utility Warning Tape.....	6.87	
33 05 97 23-0003 CLF 6" Non-Detectable Utility Warning Tape.....	9.57	
33 05 97 23-0004 Detectable Utility Warning Tape (33 05 97 23)		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0005 CLF 2" Detectable Utility Warning Tape	6.93	
33 05 97 23-0006 CLF 3" Detectable Utility Warning Tape	9.40	
33 05 97 23-0007 CLF 6" Detectable Utility Warning Tape	14.91	
33 10 Water Utilities (33)		
33 11 Groundwater Sources (33 10)		
33 11 13 Potable Water Supply Wells (33 11)		
33 11 13 00-0001 Drill And Test Water Well (33 11 13)		
33 11 13 00-0002 Drill Hole (33 11 13 00-0001)		
Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	937.68	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,148.26	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,722.39	
33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)		
Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	22.24	
For >100 To 250, Add	0.56	
For >250 To 400, Add	1.11	
For >400 To 600, Add	1.67	
For >600 To 750, Add	2.22	
For >750, Add	2.78	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	26.41	
For >100 To 250, Add	0.66	
For >250 To 400, Add	1.32	
For >400 To 600, Add	1.98	
For >600 To 750, Add	2.64	
For >750, Add	3.30	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	35.31	
For >100 To 250, Add	0.88	
For >250 To 400, Add	1.77	
For >400 To 600, Add	2.65	
For >600 To 750, Add	3.53	
For >750, Add	4.41	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	55.26	
For >100 To 250, Add	1.38	
For >250 To 400, Add	2.76	
For >400 To 600, Add	4.14	
For >600 To 750, Add	5.53	
For >750, Add	6.91	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	79.52	
For >100 To 250, Add	1.99	
For >250 To 400, Add	3.98	
For >400 To 600, Add	5.96	
For >600 To 750, Add	7.95	
For >750, Add	9.94	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	103.92	
For >100 To 250, Add	2.60	
For >250 To 400, Add	5.20	
For >400 To 600, Add	7.79	
For >600 To 750, Add	10.39	
For >750, Add	12.99	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	123.44	
For >100 To 250, Add	3.09	
For >250 To 400, Add	6.17	
For >400 To 600, Add	9.26	
For >600 To 750, Add	12.34	
For >750, Add	15.43	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	143.54	
For >100 To 250, Add	3.59	
For >250 To 400, Add	7.18	
For >400 To 600, Add	10.77	
For >600 To 750, Add	14.35	
For >750, Add	17.94	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	168.65	
For >100 To 250, Add	4.22	
For >250 To 400, Add	8.43	
For >400 To 600, Add	12.65	
For >600 To 750, Add	16.87	
For >750, Add	21.08	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	198.79	
For >100 To 250, Add	4.97	
For >250 To 400, Add	9.94	
For >400 To 600, Add	14.91	
For >600 To 750, Add	19.88	
For >750, Add	24.85	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	214.87	
For >100 To 250, Add	5.37	
For >250 To 400, Add	10.74	
For >400 To 600, Add	16.12	
For >600 To 750, Add	21.49	
For >750, Add	26.86	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	236.40	
For >100 To 250, Add	5.91	
For >250 To 400, Add	11.82	
For >400 To 600, Add	17.73	
For >600 To 750, Add	23.64	
For >750, Add	29.55	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	258.94	
For >100 To 250, Add	6.47	
For >250 To 400, Add	12.95	
For >400 To 600, Add	19.42	
For >600 To 750, Add	25.89	
For >750, Add	32.37	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	322.09	
For >100 To 250, Add	8.05	
For >250 To 400, Add	16.10	
For >400 To 600, Add	24.16	
For >600 To 750, Add	32.21	
For >750, Add	40.26	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)		
33 11 13 00-0023 LF 6" Water Well Hole Drilled In Sedimentary Rock	45.35	
For >100 To 250, Add	1.13	
For >250 To 400, Add	2.27	
For >400 To 600, Add	3.40	
For >600 To 750, Add	4.54	
For >750, Add	5.67	
33 11 13 00-0024 LF 8" Water Well Hole Drilled In Sedimentary Rock	52.82	
For >100 To 250, Add	1.32	
For >250 To 400, Add	2.64	
For >400 To 600, Add	3.96	
For >600 To 750, Add	5.28	
For >750, Add	6.60	
33 11 13 00-0025 LF 10" Water Well Hole Drilled In Sedimentary Rock	84.57	
For >100 To 250, Add	2.11	
For >250 To 400, Add	4.23	
For >400 To 600, Add	6.34	
For >600 To 750, Add	8.46	
For >750, Add	10.57	
33 11 13 00-0026 LF 12" Water Well Hole Drilled In Sedimentary Rock	110.58	
For >100 To 250, Add	2.76	
For >250 To 400, Add	5.53	
For >400 To 600, Add	8.29	
For >600 To 750, Add	11.06	
For >750, Add	13.82	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	159.15	
For >100 To 250, Add	3.98	
For >250 To 400, Add	7.96	
For >400 To 600, Add	11.94	
For >600 To 750, Add	15.92	
For >750, Add	19.89	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	207.72	
For >100 To 250, Add	5.19	
For >250 To 400, Add	10.39	
For >400 To 600, Add	15.58	
For >600 To 750, Add	20.77	
For >750, Add	25.97	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	246.99	
For >100 To 250, Add	6.17	
For >250 To 400, Add	12.35	
For >400 To 600, Add	18.52	
For >600 To 750, Add	24.70	
For >750, Add	30.87	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	286.61	
For >100 To 250, Add	7.17	
For >250 To 400, Add	14.33	
For >400 To 600, Add	21.50	
For >600 To 750, Add	28.66	
For >750, Add	35.83	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	337.59	
For >100 To 250, Add	8.44	
For >250 To 400, Add	16.88	
For >400 To 600, Add	25.32	
For >600 To 750, Add	33.76	
For >750, Add	42.20	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	389.95	
For >100 To 250, Add	9.75	
For >250 To 400, Add	19.50	
For >400 To 600, Add	29.25	
For >600 To 750, Add	39.00	
For >750, Add	48.74	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	429.73	
For >100 To 250, Add	10.74	
For >250 To 400, Add	21.49	
For >400 To 600, Add	32.23	
For >600 To 750, Add	42.97	
For >750, Add	53.72	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	472.80	
For >100 To 250, Add	11.82	
For >250 To 400, Add	23.64	
For >400 To 600, Add	35.46	
For >600 To 750, Add	47.28	
For >750, Add	59.10	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	517.86	
For >100 To 250, Add	12.95	
For >250 To 400, Add	25.89	
For >400 To 600, Add	38.84	
For >600 To 750, Add	51.79	
For >750, Add	64.73	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	644.17	
For >100 To 250, Add	16.10	
For >250 To 400, Add	32.21	
For >400 To 600, Add	48.31	
For >600 To 750, Add	64.42	
For >750, Add	80.52	
33 11 13 00-0037 Drill Hole In Crystalline Rock <small>(33 11 13 00-0002)</small>		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock	93.29	
For >100 To 250, Add	2.33	
For >250 To 400, Add	4.66	
For >400 To 600, Add	7.00	
For >600 To 750, Add	9.33	
For >750, Add	11.66	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock	107.65	
For >100 To 250, Add	2.69	
For >250 To 400, Add	5.38	
For >400 To 600, Add	8.07	
For >600 To 750, Add	10.77	
For >750, Add	13.46	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock	123.44	
For >100 To 250, Add	3.09	
For >250 To 400, Add	6.17	
For >400 To 600, Add	9.26	
For >600 To 750, Add	12.34	
For >750, Add	15.43	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0041 LF 12" Water Well Hole Drilled In Crystalline Rock.....	156.45	
For >100 To 250, Add	3.91	
For >250 To 400, Add	7.82	
For >400 To 600, Add	11.73	
For >600 To 750, Add	15.65	
For >750, Add	19.56	
33 11 13 00-0042 LF 14" Water Well Hole Drilled In Crystalline Rock.....	202.38	
For >100 To 250, Add	5.06	
For >250 To 400, Add	10.12	
For >400 To 600, Add	15.18	
For >600 To 750, Add	20.24	
For >750, Add	25.30	
33 11 13 00-0043 LF 16" Water Well Hole Drilled In Crystalline Rock.....	294.24	
For >100 To 250, Add	7.36	
For >250 To 400, Add	14.71	
For >400 To 600, Add	22.07	
For >600 To 750, Add	29.42	
For >750, Add	36.78	
33 11 13 00-0044 LF 18" Water Well Hole Drilled In Crystalline Rock.....	350.22	
For >100 To 250, Add	8.76	
For >250 To 400, Add	17.51	
For >400 To 600, Add	26.27	
For >600 To 750, Add	35.02	
For >750, Add	43.78	
33 11 13 00-0045 LF 20" Water Well Hole Drilled In Crystalline Rock.....	406.20	
For >100 To 250, Add	10.16	
For >250 To 400, Add	20.31	
For >400 To 600, Add	30.47	
For >600 To 750, Add	40.62	
For >750, Add	50.78	
33 11 13 00-0046 LF 22" Water Well Hole Drilled In Crystalline Rock.....	477.96	
For >100 To 250, Add	11.95	
For >250 To 400, Add	23.90	
For >400 To 600, Add	35.85	
For >600 To 750, Add	47.80	
For >750, Add	59.75	
33 11 13 00-0047 LF 24" Water Well Hole Drilled In Crystalline Rock.....	552.60	
For >100 To 250, Add	13.82	
For >250 To 400, Add	27.63	
For >400 To 600, Add	41.45	
For >600 To 750, Add	55.26	
For >750, Add	69.08	
33 11 13 00-0048 Furnish And Install Casing (33 11 13 00-0001)		
Note: Excludes drilling of hole.		
33 11 13 00-0049 Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050 LF 6" Diameter, Steel Well Casing, Flush.....	31.87	
For >100 To 250, Deduct	-0.99	
For >250 To 400, Deduct	-1.79	
For >400 To 600, Deduct	-2.69	
For >600 To 750, Deduct	-3.58	
For >750, Deduct	-4.73	
33 11 13 00-0051 LF 8" Diameter, Steel Well Casing, Flush.....	39.64	
For >100 To 250, Deduct	-1.24	
For >250 To 400, Deduct	-2.23	
For >400 To 600, Deduct	-3.34	
For >600 To 750, Deduct	-4.46	
For >750, Deduct	-5.89	
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush.....	58.07	
For >100 To 250, Deduct	-1.75	
For >250 To 400, Deduct	-3.20	
For >400 To 600, Deduct	-4.80	
For >600 To 750, Deduct	-6.40	
For >750, Deduct	-8.38	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush.....	96.11	
For >100 To 250, Deduct	-2.76	
For >250 To 400, Deduct	-5.16	
For >400 To 600, Deduct	-7.74	
For >600 To 750, Deduct	-10.32	
For >750, Deduct	-13.36	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush.....	108.67	
For >100 To 250, Deduct	-3.21	
For >250 To 400, Deduct	-5.93	
For >400 To 600, Deduct	-8.89	
For >600 To 750, Deduct	-11.85	
For >750, Deduct	-15.46	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush.....	127.88	
For >100 To 250, Deduct	-3.81	
For >250 To 400, Deduct	-7.01	
For >400 To 600, Deduct	-10.51	
For >600 To 750, Deduct	-14.01	
For >750, Deduct	-18.31	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush	146.58	
For >100 To 250, Deduct	-4.43	
For >250 To 400, Deduct	-8.10	
For >400 To 600, Deduct	-12.15	
For >600 To 750, Deduct	-16.20	
For >750, Deduct	-21.24	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush	167.76	
For >100 To 250, Deduct	-5.14	
For >250 To 400, Deduct	-9.33	
For >400 To 600, Deduct	-14.00	
For >600 To 750, Deduct	-18.67	
For >750, Deduct	-24.57	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush	195.69	
For >100 To 250, Deduct	-5.96	
For >250 To 400, Deduct	-10.85	
For >400 To 600, Deduct	-16.27	
For >600 To 750, Deduct	-21.70	
For >750, Deduct	-28.51	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install	1.11	
For >100 To 250, Deduct	-0.04	
For >250 To 400, Deduct	-0.07	
For >400 To 600, Deduct	-0.10	
For >600 To 750, Deduct	-0.14	
For >750, Deduct	-0.19	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded <small>(33 11 13 00-0048)</small>		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush	65.31	
For >100 To 250, Deduct	-1.83	
For >250 To 400, Deduct	-3.46	
For >400 To 600, Deduct	-5.19	
For >600 To 750, Deduct	-6.93	
For >750, Deduct	-8.91	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush	97.79	
For >100 To 250, Deduct	-2.69	
For >250 To 400, Deduct	-5.14	
For >400 To 600, Deduct	-7.70	
For >600 To 750, Deduct	-10.27	
For >750, Deduct	-13.16	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush	136.45	
For >100 To 250, Deduct	-3.73	
For >250 To 400, Deduct	-7.14	
For >400 To 600, Deduct	-10.71	
For >600 To 750, Deduct	-14.28	
For >750, Deduct	-18.25	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush	158.74	
For >100 To 250, Deduct	-4.34	
For >250 To 400, Deduct	-8.31	
For >400 To 600, Deduct	-12.47	
For >600 To 750, Deduct	-16.62	
For >750, Deduct	-21.27	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring <small>(33 11 13 00-0048)</small>		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded	145.91	
For >100 To 250, Deduct	-4.20	
For >250 To 400, Deduct	-7.85	
For >400 To 600, Deduct	-11.77	
For >600 To 750, Deduct	-15.69	
For >750, Deduct	-20.34	
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded	168.99	
For >100 To 250, Deduct	-4.86	
For >250 To 400, Deduct	-9.08	
For >400 To 600, Deduct	-13.62	
For >600 To 750, Deduct	-18.16	
For >750, Deduct	-23.52	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded	202.78	
For >100 To 250, Deduct	-5.78	
For >250 To 400, Deduct	-10.85	
For >400 To 600, Deduct	-16.27	
For >600 To 750, Deduct	-21.70	
For >750, Deduct	-28.04	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded	232.18	
For >100 To 250, Deduct	-6.61	
For >250 To 400, Deduct	-12.42	
For >400 To 600, Deduct	-18.63	
For >600 To 750, Deduct	-24.83	
For >750, Deduct	-32.09	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded	256.58	
For >100 To 250, Deduct	-7.34	
For >250 To 400, Deduct	-13.76	
For >400 To 600, Deduct	-20.63	
For >600 To 750, Deduct	-27.51	
For >750, Deduct	-35.59	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded	335.56	
For >100 To 250, Deduct	-9.49	
For >250 To 400, Deduct	-17.88	
For >400 To 600, Deduct	-26.82	
For >600 To 750, Deduct	-35.76	
For >750, Deduct	-46.14	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded	441.66	
For >100 To 250, Deduct	-12.42	
For >250 To 400, Deduct	-23.46	
For >400 To 600, Deduct	-35.19	
For >600 To 750, Deduct	-46.93	
For >750, Deduct	-60.45	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing	57.23	
For >100 To 250, Deduct	-1.59	
For >250 To 400, Deduct	-3.02	
For >400 To 600, Deduct	-4.53	
For >600 To 750, Deduct	-6.04	
For >750, Deduct	-7.75	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing	90.96	
For >100 To 250, Deduct	-2.52	
For >250 To 400, Deduct	-4.79	
For >400 To 600, Deduct	-7.19	
For >600 To 750, Deduct	-9.59	
For >750, Deduct	-12.31	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing	137.44	
For >100 To 250, Deduct	-3.81	
For >250 To 400, Deduct	-7.25	
For >400 To 600, Deduct	-10.87	
For >600 To 750, Deduct	-14.49	
For >750, Deduct	-18.60	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing	161.96	
For >100 To 250, Deduct	-4.50	
For >250 To 400, Deduct	-8.55	
For >400 To 600, Deduct	-12.83	
For >600 To 750, Deduct	-17.10	
For >750, Deduct	-21.97	
33 11 13 00-0078 Furnish And Install Well Screen Assembly <small>(33 11 13 00-0001)</small>		
33 11 13 00-0079 Stainless Steel Well Screen <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen	21.08	1.58
For >100 To 250, Deduct	-0.73	
For >250 To 400, Deduct	-1.26	
For >400 To 600, Deduct	-1.88	
For >600 To 750, Deduct	-2.51	
For >750, Deduct	-3.40	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen	32.93	1.58
For >100 To 250, Deduct	-1.04	
For >250 To 400, Deduct	-1.86	
For >400 To 600, Deduct	-2.80	
For >600 To 750, Deduct	-3.73	
For >750, Deduct	-4.95	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen	41.37	2.37
For >100 To 250, Deduct	-1.31	
For >250 To 400, Deduct	-2.34	
For >400 To 600, Deduct	-3.52	
For >600 To 750, Deduct	-4.69	
For >750, Deduct	-6.22	
33 11 13 00-0083 LF 5" Stainless Steel Well Screen	52.21	2.37
For >100 To 250, Deduct	-1.63	
For >250 To 400, Deduct	-2.94	
For >400 To 600, Deduct	-4.41	
For >600 To 750, Deduct	-5.88	
For >750, Deduct	-7.78	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen	62.83	3.15
For >100 To 250, Deduct	-2.01	
For >250 To 400, Deduct	-3.58	
For >400 To 600, Deduct	-5.37	
For >600 To 750, Deduct	-7.16	
For >750, Deduct	-9.52	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen	81.95	3.95
For >100 To 250, Deduct	-2.61	
For >250 To 400, Deduct	-4.66	
For >400 To 600, Deduct	-6.99	
For >600 To 750, Deduct	-9.32	
For >750, Deduct	-12.37	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	104.22	6.31
For >100 To 250, Deduct	-3.36	
For >250 To 400, Deduct	-5.97	
For >400 To 600, Deduct	-8.95	
For >600 To 750, Deduct	-11.93	
For >750, Deduct	-15.90	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	122.25	7.88
For >100 To 250, Deduct	-3.94	
For >250 To 400, Deduct	-7.00	
For >400 To 600, Deduct	-10.49	
For >600 To 750, Deduct	-13.99	
For >750, Deduct	-18.64	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	134.46	8.68
For >100 To 250, Deduct	-4.38	
For >250 To 400, Deduct	-7.74	
For >400 To 600, Deduct	-11.61	
For >600 To 750, Deduct	-15.48	
For >750, Deduct	-20.67	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	145.76	10.25
For >100 To 250, Deduct	-4.79	
For >250 To 400, Deduct	-8.43	
For >400 To 600, Deduct	-12.65	
For >600 To 750, Deduct	-16.86	
For >750, Deduct	-22.56	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	175.15	11.83
For >100 To 250, Deduct	-5.79	
For >250 To 400, Deduct	-10.17	
For >400 To 600, Deduct	-15.25	
For >600 To 750, Deduct	-20.33	
For >750, Deduct	-27.24	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	220.87	14.98
For >100 To 250, Deduct	-7.29	
For >250 To 400, Deduct	-12.81	
For >400 To 600, Deduct	-19.22	
For >600 To 750, Deduct	-25.63	
For >750, Deduct	-34.33	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	286.64	19.71
For >100 To 250, Deduct	-9.49	
For >250 To 400, Deduct	-16.65	
For >400 To 600, Deduct	-24.98	
For >600 To 750, Deduct	-33.30	
For >750, Deduct	-44.64	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	330.29	22.87
For >100 To 250, Deduct	-10.89	
For >250 To 400, Deduct	-19.14	
For >400 To 600, Deduct	-28.71	
For >600 To 750, Deduct	-38.29	
For >750, Deduct	-51.27	
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	16.13	
For >100 To 250, Deduct	-0.55	
For >250 To 400, Deduct	-0.96	
For >400 To 600, Deduct	-1.43	
For >600 To 750, Deduct	-1.91	
For >750, Deduct	-2.59	
For Schedule 80, Add	4.05	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	18.56	
For >100 To 250, Deduct	-0.62	
For >250 To 400, Deduct	-1.09	
For >400 To 600, Deduct	-1.63	
For >600 To 750, Deduct	-2.18	
For >750, Deduct	-2.93	
For Schedule 80, Add	4.86	
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	25.64	
For >100 To 250, Deduct	-0.93	
For >250 To 400, Deduct	-1.57	
For >400 To 600, Deduct	-2.35	
For >600 To 750, Deduct	-3.14	
For >750, Deduct	-4.29	
For Schedule 80, Add	5.68	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	38.70	
For >100 To 250, Deduct	-1.28	
For >250 To 400, Deduct	-2.24	
For >400 To 600, Deduct	-3.37	
For >600 To 750, Deduct	-4.49	
For >750, Deduct	-6.01	
For Schedule 80, Add	10.54	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen.....	48.66	
For >100 To 250, Deduct	-1.61	
For >250 To 400, Deduct	-2.82	
For >400 To 600, Deduct	-4.24	
For >600 To 750, Deduct	-5.65	
For >750, Deduct	-7.57	
For Schedule 80, Add	13.21	



Utilities	33	CS
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	61.17	
For >100 To 250, Deduct	-1.99	
For >250 To 400, Deduct	-3.52	
For >400 To 600, Deduct	-5.29	
For >600 To 750, Deduct	-7.05	
For >750, Deduct	-9.41	
For Schedule 80, Add	17.02	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	66.35	
For >100 To 250, Deduct	-2.28	
For >250 To 400, Deduct	-3.94	
For >400 To 600, Deduct	-5.91	
For >600 To 750, Deduct	-7.88	
For >750, Deduct	-10.65	
For Schedule 80, Add	16.62	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	96.58	
For >100 To 250, Deduct	-3.21	
For >250 To 400, Deduct	-5.62	
For >400 To 600, Deduct	-8.43	
For >600 To 750, Deduct	-11.24	
For >750, Deduct	-15.09	
For Schedule 80, Add	25.94	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	21.79	
For >100 To 250, Deduct	-0.77	
For >250 To 400, Deduct	-1.32	
For >400 To 600, Deduct	-1.97	
For >600 To 750, Deduct	-2.63	
For >750, Deduct	-3.59	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	31.59	
For >100 To 250, Deduct	-1.15	
For >250 To 400, Deduct	-1.94	
For >400 To 600, Deduct	-2.90	
For >600 To 750, Deduct	-3.87	
For >750, Deduct	-5.30	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	43.05	
For >100 To 250, Deduct	-1.61	
For >250 To 400, Deduct	-2.68	
For >400 To 600, Deduct	-4.02	
For >600 To 750, Deduct	-5.36	
For >750, Deduct	-7.39	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	55.78	
For >100 To 250, Deduct	-2.05	
For >250 To 400, Deduct	-3.45	
For >400 To 600, Deduct	-5.17	
For >600 To 750, Deduct	-6.89	
For >750, Deduct	-9.47	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	69.47	
For >100 To 250, Deduct	-2.52	
For >250 To 400, Deduct	-4.26	
For >400 To 600, Deduct	-6.39	
For >600 To 750, Deduct	-8.52	
For >750, Deduct	-11.67	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	91.27	
For >100 To 250, Deduct	-3.25	
For >250 To 400, Deduct	-5.53	
For >400 To 600, Deduct	-8.30	
For >600 To 750, Deduct	-11.07	
For >750, Deduct	-15.09	
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	105.09	
For >100 To 250, Deduct	-3.72	
For >250 To 400, Deduct	-6.35	
For >400 To 600, Deduct	-9.53	
For >600 To 750, Deduct	-12.70	
For >750, Deduct	-17.30	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	123.84	
For >100 To 250, Deduct	-4.43	
For >250 To 400, Deduct	-7.53	
For >400 To 600, Deduct	-11.29	
For >600 To 750, Deduct	-15.06	
For >750, Deduct	-20.56	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	139.49	
For >100 To 250, Deduct	-5.02	
For >250 To 400, Deduct	-8.51	
For >400 To 600, Deduct	-12.76	
For >600 To 750, Deduct	-17.02	
For >750, Deduct	-23.27	

33	Utilities
33 10	Water Utilities
33 11	Groundwater Sources



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	151.66	
For >100 To 250, Deduct	-5.40	
For >250 To 400, Deduct	-9.19	
For >400 To 600, Deduct	-13.78	
For >600 To 750, Deduct	-18.37	
For >750, Deduct	-25.05	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	179.20	
For >100 To 250, Deduct	-6.45	
For >250 To 400, Deduct	-10.93	
For >400 To 600, Deduct	-16.40	
For >600 To 750, Deduct	-21.87	
For >750, Deduct	-29.90	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	203.92	
For >100 To 250, Deduct	-7.50	
For >250 To 400, Deduct	-12.60	
For >400 To 600, Deduct	-18.90	
For >600 To 750, Deduct	-25.20	
For >750, Deduct	-34.63	
33 11 13 00-0117 Develop Well <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	372.82	
33 11 13 00-0119 Pump Test <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	331.51	
33 11 13 00-0121 Test Well <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....	93.93	
33 11 13 00-0123 Surface Seal, Concrete Filled <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....	34.15	
33 11 13 00-0125 Other Water Well <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing.....	84.43	
33 11 13 00-0127 SF 1/2" Pressure Grout Well.....	2.72	
33 11 13 00-0128 SF 1" Pressure Grout Well.....	4.56	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	4.93	
33 11 13 00-0130 Sterilization Of Well <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,588.62	
33 11 13 00-0132 Submersible Well Pumps <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,464.57	518.52
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,668.04	574.71
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,851.44	638.58
33 11 13 00-0138 Stainless Steel Case And Ends <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,637.45	510.86
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,865.82	574.71
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,090.63	638.58
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,388.85	702.43
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,697.73	766.29
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	3,308.39	894.00
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	4,140.48	1,021.72
33 11 13 00-0146 6" Submersible Well Pumps <small>(33 11 13 00-0132)</small>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,084.16	1,277.15
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,695.84	1,404.86
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	5,330.35	1,532.58
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	6,690.20	1,788.01

33 14 Water Utility Transmission and Distribution (33 10)

33 14 11 Water Utility Transmission Piping (33 14)

See CSI section 33 14 13 00-0000 for water utility transmission piping.



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 Public Water Utility Distribution Piping ^(33 14)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping ^(33 14 13)		
33 14 13 13-0001 Ductile Iron Piping ^(33 14 13 13)		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping ^(33 14 13 13-0001)		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13-0500 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe ^(33 14 13 13-0002)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	36.09	12.79
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	11.72	
For Cement Mortar Lining (CML), Add	1.67	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.04	
For Fusion Bonded Epoxy Lining (206N), Add	3.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.80	
For Class 52, Add	5.42	
For Class 53, Add	9.70	
For Class 54, Add	13.80	
For Class 55, Add	15.92	
For Class 56, Add	18.00	
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	39.02	13.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	12.87	
For Cement Mortar Lining (CML), Add	1.84	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	9.93	
For Fusion Bonded Epoxy Lining (206N), Add	3.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.95	
For Class 51, Add	2.76	
For Class 52, Add	5.94	
For Class 53, Add	10.63	
For Class 54, Add	15.13	
For Class 55, Add	17.44	
For Class 56, Add	19.73	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	41.57	14.29
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.97	
For Cement Mortar Lining (CML), Add	2.00	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.78	
For Fusion Bonded Epoxy Lining (206N), Add	3.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.50	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.08	
For Class 51, Add	2.99	
For Class 52, Add	6.43	
For Class 53, Add	11.51	
For Class 54, Add	16.38	
For Class 55, Add	18.89	
For Class 56, Add	21.35	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	48.03	14.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.87	
For Cement Mortar Lining (CML), Add	2.55	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.79	
For Fusion Bonded Epoxy Lining (206N), Add	4.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.91	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.40	
For Class 51, Add	3.76	
For Class 52, Add	8.10	
For Class 53, Add	14.53	
For Class 54, Add	20.69	
For Class 55, Add	23.83	
For Class 56, Add	26.92	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	65.68	21.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.93	
For Cement Mortar Lining (CML), Add	3.32	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.61	
For Fusion Bonded Epoxy Lining (206N), Add	5.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.49	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.28	
For Class 51, Add	4.93	
For Class 52, Add	10.61	
For Class 53, Add	19.01	
For Class 54, Add	27.08	
For Class 55, Add	31.20	
For Class 56, Add	35.26	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	78.50	23.81
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.21	
For Cement Mortar Lining (CML), Add	4.24	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.97	
For Fusion Bonded Epoxy Lining (206N), Add	7.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.18	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.93	
For Class 51, Add	6.23	
For Class 52, Add	13.42	
For Class 53, Add	24.09	
For Class 54, Add	34.31	
For Class 55, Add	39.52	
For Class 56, Add	44.64	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	93.19	26.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.15	
For Cement Mortar Lining (CML), Add	5.26	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	17.89	
For Fusion Bonded Epoxy Lining (206N), Add	9.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.95	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.66	
For Class 51, Add	7.68	
For Class 52, Add	16.54	
For Class 53, Add	29.72	
For Class 54, Add	42.35	
For Class 55, Add	48.75	
For Class 56, Add	55.05	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	105.36	30.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.18	
For Cement Mortar Lining (CML), Add	5.90	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.28	
For Fusion Bonded Epoxy Lining (206N), Add	10.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.42	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.27	
For Class 51, Add	8.62	
For Class 52, Add	18.56	
For Class 53, Add	33.35	
For Class 54, Add	47.52	
For Class 55, Add	54.71	
For Class 56, Add	61.78	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	129.74	35.71
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.01	
For Cement Mortar Lining (CML), Add	7.56	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.45	
For Fusion Bonded Epoxy Lining (206N), Add	13.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.67	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.49	
For Class 51, Add	10.99	
For Class 52, Add	23.67	
For Class 53, Add	42.56	
For Class 54, Add	60.68	
For Class 55, Add	69.83	
For Class 56, Add	78.83	



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	148.23	42.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.65	
For Cement Mortar Lining (CML), Add	8.33	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.32	
For Fusion Bonded Epoxy Lining (206N), Add	14.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.25	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.41	
For Class 51, Add	12.17	
For Class 52, Add	26.21	
For Class 53, Add	47.08	
For Class 54, Add	67.09	
For Class 55, Add	77.24	
For Class 56, Add	87.21	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	192.95	53.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.65	
For Cement Mortar Lining (CML), Add	11.18	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.48	
For Fusion Bonded Epoxy Lining (206N), Add	20.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.65	
For Class 51, Add	16.25	
For Class 52, Add	35.02	
For Class 53, Add	62.95	
For Class 54, Add	89.73	
For Class 55, Add	103.28	
For Class 56, Add	116.59	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	244.21	57.68
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.87	
For Cement Mortar Lining (CML), Add	15.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-12.21	
For Class 51, Add	22.57	
For Class 52, Add	48.68	
For Class 53, Add	87.73	
For Class 54, Add	125.14	
For Class 55, Add	143.90	
For Class 56, Add	162.32	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	289.10	61.25
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	61.11	
For Cement Mortar Lining (CML), Add	19.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.78	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.46	
For Class 51, Add	28.02	
For Class 52, Add	60.47	
For Class 53, Add	109.09	
For Class 54, Add	155.67	
For Class 55, Add	178.92	
For Class 56, Add	201.75	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	351.32	64.82
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	78.72	
For Cement Mortar Lining (CML), Add	25.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-17.57	
For Class 51, Add	35.83	
For Class 52, Add	77.37	
For Class 53, Add	139.73	
For Class 54, Add	199.48	
For Class 55, Add	229.16	
For Class 56, Add	258.31	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	426.48	68.50
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	100.34	
For Cement Mortar Lining (CML), Add	32.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.28	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-21.32	
For Class 51, Add	45.40	
For Class 52, Add	98.09	
For Class 53, Add	177.31	
For Class 54, Add	253.20	
For Class 55, Add	290.77	
For Class 56, Add	327.66	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	158.32	40.40
For Cement Mortar Lining (CML), Add	9.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	178.81	48.27
For Cement Mortar Lining (CML), Add	10.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	280.82	71.33
For Cement Mortar Lining (CML), Add	17.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	379.59	84.61
For Cement Mortar Lining (CML), Add	25.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	543.79	95.01
For Cement Mortar Lining (CML), Add	39.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	707.19	111.46
For Cement Mortar Lining (CML), Add	53.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,090.48	124.98
For Cement Mortar Lining (CML), Add	90.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,440.28	142.85
For Cement Mortar Lining (CML), Add	122.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	220.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	1,776.73	199.97
For Cement Mortar Lining (CML), Add	147.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.53	
Note: ANSI/AWWA C151/A21.51		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0029	EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 2,433.73 205.50 369.90 154.13	249.97
33 14 13 13-0030	EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 3,571.93 306.75 552.15 230.06	332.86
33 14 13 13-0031	EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 5,463.66 492.26 886.07 369.19	357.10
33 14 13 13-0032	EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 8,257.58 769.59 1,385.27 577.19	370.74
33 14 13 13-0033	EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 13,846.17 1,319.69 2,375.44 989.77	428.53
33 14 13 13-0034	EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 18,287.52 1,759.68 3,167.42 1,319.76	455.90
33 14 13 13-0035	Mechanical Joint Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0002)</small>			
33 14 13 13-0036	EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 148.32 8.71 15.68 6.53	40.40
33 14 13 13-0037	EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 160.24 8.71 15.68 6.53	48.27
33 14 13 13-0038	EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 247.97 14.00 25.19 10.50	71.33
33 14 13 13-0039	EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 332.47 20.42 36.76 15.32	84.61
33 14 13 13-0040	EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 442.40 29.85 53.72 22.39	95.01
33 14 13 13-0041	EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	..... 614.36 44.56 80.20 33.42	111.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	890.55	124.98
For Cement Mortar Lining (CML), Add	70.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	126.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,090.40	142.85
For Cement Mortar Lining (CML), Add	87.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	157.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,556.80	199.97
For Cement Mortar Lining (CML), Add	125.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	225.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	1,718.26	249.97
For Cement Mortar Lining (CML), Add	133.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	241.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	2,539.42	332.86
For Cement Mortar Lining (CML), Add	203.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	366.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	4,675.36	357.10
For Cement Mortar Lining (CML), Add	413.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	744.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	310.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	6,606.72	370.74
For Cement Mortar Lining (CML), Add	604.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,088.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	9,937.51	428.53
For Cement Mortar Lining (CML), Add	928.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,671.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	696.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow	12,862.25	455.90
For Cement Mortar Lining (CML), Add	1,217.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,190.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	912.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	129.76	40.40
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	155.96	48.27
For Cement Mortar Lining (CML), Add	8.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	236.55	71.33
For Cement Mortar Lining (CML), Add	12.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.64	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	328.18 19.99 35.99 14.99	84.61
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	440.97 29.70 53.47 22.28	95.01
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	558.67 38.99 70.18 29.24	111.46
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	899.12 70.98 127.76 53.23	124.98
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,054.70 83.83 150.89 62.87	142.85
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,332.60 102.97 185.34 77.22	199.97
33 14 13 13-0061 EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,778.24 139.95 251.91 104.96	249.97
33 14 13 13-0062 EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,382.34 187.79 338.03 140.84	332.86
33 14 13 13-0063 EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,005.59 346.45 623.61 259.84	357.10
33 14 13 13-0064 EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,639.91 507.83 914.09 380.87	370.74
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,316.64 766.74 1,380.12 575.05	428.53
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,674.43 998.37 1,797.07 748.78	455.90

33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	129.76 6.86 12.34 5.14	40.40
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	151.67 7.85 14.14 5.89	48.27
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	240.83 13.28 23.91 9.96	71.33
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	309.62 18.14 32.65 13.60	84.61
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	438.11 29.42 52.95 22.06	95.01
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	534.39 36.56 65.81 27.42	111.46
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	999.08 80.97 145.75 60.73	124.98
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,103.26 88.68 159.63 66.51	142.85
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,603.93 130.10 234.18 97.57	199.97
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,696.84 131.81 237.26 98.86	249.97
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,262.38 175.80 316.43 131.85	332.86
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,068.43 352.74 634.92 264.55	357.10



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,382.86 482.12 867.82 361.59	370.74
	33 14 13	13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,966.76 731.75 1,317.15 548.81	428.53
	33 14 13	13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,605.89 991.52 1,784.73 743.64	455.90
	33 14 13	13-0083		Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0002)</small>		
	33 14 13	13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	162.60 10.14 18.25 7.60	40.40
	33 14 13	13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	198.80 12.57 22.62 9.43	48.27
	33 14 13	13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	316.52 20.85 37.53 15.64	71.33
	33 14 13	13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	426.72 29.85 53.72 22.39	84.61
	33 14 13	13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	612.34 46.84 84.31 35.13	95.01
	33 14 13	13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	781.45 61.27 110.28 45.95	111.46
	33 14 13	13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,328.97 113.96 205.13 85.47	124.98
	33 14 13	13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,021.51 180.51 324.92 135.38	142.85

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,353.67 205.07 369.13 153.80	199.97
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,193.47 281.48 506.66 211.11	249.97
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,886.10 338.17 608.70 253.63	332.86
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,200.21 665.91 1,198.65 499.44	357.10
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,833.15 1,227.15 2,208.87 920.36	370.74
33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0092)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	149.75 8.85 15.94 6.64	40.40
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	164.53 9.14 16.45 6.86	48.27
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	263.68 15.57 28.02 11.67	71.33
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	378.16 24.99 44.98 18.74	84.61
33 14 13 13-0102 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	515.23 37.13 66.83 27.85	95.01
33 14 13 13-0103 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	697.19 52.84 95.11 39.63	111.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0104 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,179.02 98.97 178.14 74.22	124.98
33 14 13 13-0105 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,785.88 156.95 282.50 117.71	142.85
33 14 13 13-0106 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,115.18 181.22 326.20 135.92	199.97
33 14 13 13-0107 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,745.05 236.63 425.94 177.47	249.97
33 14 13 13-0108 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,453.40 294.90 530.82 221.17	332.86
33 14 13 13-0109 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,333.36 579.23 1,042.61 434.42	357.10
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,237.99 1,067.63 1,921.74 800.72	370.74
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	257.47 16.57 29.82 12.42	60.60
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	268.27 16.57 29.82 12.42	67.72
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	246.54 13.85 24.93 10.39	71.33
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	327.51 19.14 34.44 14.35	89.85
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	374.53 23.28 41.90 17.46	93.57

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	408.55	104.75
For Cement Mortar Lining (CML), Add	24.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	434.19	108.43
For Cement Mortar Lining (CML), Add	26.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	492.48	119.57
For Cement Mortar Lining (CML), Add	31.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	568.00	127.02
For Cement Mortar Lining (CML), Add	37.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	593.05	118.09
For Cement Mortar Lining (CML), Add	41.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	596.43	128.79
For Cement Mortar Lining (CML), Add	40.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	675.81	135.94
For Cement Mortar Lining (CML), Add	46.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	753.38	142.85
For Cement Mortar Lining (CML), Add	53.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	707.52	132.37
For Cement Mortar Lining (CML), Add	50.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	802.28	143.07
For Cement Mortar Lining (CML), Add	58.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	980.20	150.22
For Cement Mortar Lining (CML), Add	75.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	135.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	1,049.21	157.13
For Cement Mortar Lining (CML), Add	81.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	146.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.84	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....	998.62	164.27
For Cement Mortar Lining (CML), Add	74.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	134.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	56.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....	1,063.74	166.71
For Cement Mortar Lining (CML), Add	81.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	146.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....	1,181.69	173.87
For Cement Mortar Lining (CML), Add	91.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	165.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	1,500.60	180.75
For Cement Mortar Lining (CML), Add	122.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	220.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	92.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	1,602.82	187.90
For Cement Mortar Lining (CML), Add	131.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	98.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	1,550.74	199.76
For Cement Mortar Lining (CML), Add	124.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	224.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee.....	1,349.67	199.96
For Cement Mortar Lining (CML), Add	104.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	188.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee.....	1,450.57	207.12
For Cement Mortar Lining (CML), Add	113.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	204.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee.....	1,683.80	214.01
For Cement Mortar Lining (CML), Add	135.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	244.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	101.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee.....	1,840.29	221.16
For Cement Mortar Lining (CML), Add	150.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	270.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee.....	2,208.08	232.98
For Cement Mortar Lining (CML), Add	185.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	333.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee.....	2,093.31	249.65
For Cement Mortar Lining (CML), Add	171.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	308.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	128.63	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	1,870.11 148.24 266.82 111.18	255.92
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,003.75 160.52 288.93 120.39	263.06
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,165.58 175.65 316.18 131.74	269.97
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,326.36 190.65 343.17 142.99	277.11
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,394.25 195.65 352.16 146.74	288.93
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,555.11 209.21 376.59 156.91	305.56
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,987.36 248.20 446.76 186.15	333.51
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,224.05 166.80 300.24 125.10	366.99
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,272.01 170.51 306.92 127.88	374.15
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,469.54 189.22 340.60 141.92	381.04
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,666.02 207.79 374.01 155.84	388.18
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	2,699.64 209.36 376.84 157.02	400.00



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,741.96 211.07 379.93 158.30	416.63
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,429.84 275.62 496.11 206.71	444.60
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,045.57 228.78 411.80 171.58	500.16
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,730.27 200.65 361.16 150.48	477.73
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,766.82 203.22 365.79 152.41	485.55
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,040.04 229.49 413.09 172.12	491.77
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,115.11 235.92 424.65 176.94	498.91
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,495.75 272.19 489.95 204.14	510.73
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,770.86 297.18 534.93 222.89	527.36
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,275.95 343.45 618.22 257.59	555.34
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,738.54 381.30 686.33 285.97	610.87
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,405.42 339.60 611.27 254.70	666.27

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee.....	4,685.41	563.57
For Cement Mortar Lining (CML), Add	383.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	689.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.37	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee.....	4,931.50	570.46
For Cement Mortar Lining (CML), Add	406.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	732.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee.....	5,177.95	577.60
For Cement Mortar Lining (CML), Add	430.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	774.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	322.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee.....	5,530.04	589.42
For Cement Mortar Lining (CML), Add	463.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	834.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	347.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee.....	5,912.25	784.22
For Cement Mortar Lining (CML), Add	499.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	898.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	374.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee.....	6,074.59	634.02
For Cement Mortar Lining (CML), Add	511.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	920.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	383.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee.....	6,325.82	689.57
For Cement Mortar Lining (CML), Add	528.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	950.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	396.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee.....	6,651.06	744.93
For Cement Mortar Lining (CML), Add	552.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	994.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	414.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee.....	8,307.26	784.22
For Cement Mortar Lining (CML), Add	711.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,281.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	533.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee.....	4,891.66	556.41
For Cement Mortar Lining (CML), Add	404.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	728.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee.....	5,714.16	625.17
For Cement Mortar Lining (CML), Add	476.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	858.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	357.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee.....	6,344.41	632.08
For Cement Mortar Lining (CML), Add	538.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	969.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	404.00	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,686.53 571.80 1,029.25 428.85	639.22
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,934.37 594.80 1,070.63 446.10	651.03
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,186.63 617.50 1,111.50 463.13	667.67
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,668.86 661.49 1,190.68 496.12	695.64
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,194.28 705.61 1,270.11 529.21	751.17
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,060.76 783.87 1,410.97 587.90	806.54
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,007.21 872.56 1,570.60 654.42	876.75
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,660.47 1,033.22 1,859.79 774.91	876.75
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,039.41 1,201.87 2,163.37 901.40	673.65
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,300.08 1,226.15 2,207.07 919.61	685.47
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,769.07 1,370.53 2,466.95 1,027.90	702.10
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,826.08 1,271.99 2,289.58 953.99	730.07

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,910.23 1,271.99 2,289.58 953.99	785.62
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,226.90 1,295.27 2,331.48 971.45	840.98
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,222.64 1,588.88 2,859.99 1,191.66	880.32
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,936.22 1,655.57 2,980.03 1,241.68	911.13
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,966.25 1,755.97 3,160.74 1,316.98	928.36
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,348.94 1,424.51 2,564.12 1,068.38	728.54
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,623.90 1,450.22 2,610.39 1,087.66	740.35
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,013.25 1,486.63 2,675.94 1,114.97	756.98
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,418.38 1,522.91 2,741.23 1,142.18	784.96
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,866.68 1,559.32 2,806.78 1,169.49	840.49
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,999.12 1,564.18 2,815.52 1,173.13	895.86
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,656.07 1,923.91 3,463.04 1,442.93	935.20



Utilities	33	CS
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,530.34 2,206.67 3,972.00 1,655.00	966.01
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,676.05 2,318.63 4,173.54 1,738.97	983.22
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,090.36 2,355.90 4,240.63 1,766.93	1,010.71
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	224.00 12.14 21.85 9.10	67.72
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.08 22.71 40.87 17.03	71.29
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	327.51 19.14 34.44 14.35	89.85
33 14 13 13-0208 EA 6" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	375.96 23.42 42.16 17.57	93.57
33 14 13 13-0209 EA 6" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	501.38 34.27 61.69 25.71	104.69
33 14 13 13-0210 EA 8" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	636.97 47.27 85.08 35.45	108.43
33 14 13 13-0211 EA 8" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	576.74 39.56 71.20 29.67	119.57
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	692.25 49.98 89.97 37.49	126.99
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	974.35 79.54 143.18 59.66	118.09

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,031.99	128.79
For Cement Mortar Lining (CML), Add	83.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,182.78	135.94
For Cement Mortar Lining (CML), Add	97.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,328.89	142.85
For Cement Mortar Lining (CML), Add	111.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	200.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,238.76	132.37
For Cement Mortar Lining (CML), Add	103.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	186.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,399.22	143.07
For Cement Mortar Lining (CML), Add	118.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	212.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,679.96	150.22
For Cement Mortar Lining (CML), Add	145.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	261.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	108.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,728.98	157.13
For Cement Mortar Lining (CML), Add	149.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	268.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,572.71	164.26
For Cement Mortar Lining (CML), Add	132.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	238.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,846.33	166.71
For Cement Mortar Lining (CML), Add	159.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	286.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,108.51	173.87
For Cement Mortar Lining (CML), Add	184.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	332.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,740.17	180.75
For Cement Mortar Lining (CML), Add	246.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	443.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	184.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,933.79	187.90
For Cement Mortar Lining (CML), Add	264.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	476.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	198.68	
Note: ANSI/AWWA C151/A21.51		



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	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	2,871.72	199.72
For Cement Mortar Lining (CML), Add	256.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	462.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	192.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,905.30	199.96
For Cement Mortar Lining (CML), Add	160.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,093.21	207.12
For Cement Mortar Lining (CML), Add	177.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	320.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	133.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,459.25	214.01
For Cement Mortar Lining (CML), Add	213.50	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	384.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,745.69	221.16
For Cement Mortar Lining (CML), Add	241.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	433.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	180.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,423.37	232.98
For Cement Mortar Lining (CML), Add	307.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,308.61	249.61
For Cement Mortar Lining (CML), Add	293.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	527.48	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	219.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,982.58	255.92
For Cement Mortar Lining (CML), Add	259.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	467.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	194.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,207.62	263.06
For Cement Mortar Lining (CML), Add	280.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	505.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,425.14	269.97
For Cement Mortar Lining (CML), Add	301.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	542.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	226.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,661.61	277.11
For Cement Mortar Lining (CML), Add	324.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	583.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,705.23	288.93
For Cement Mortar Lining (CML), Add	326.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	588.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.06	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,747.55	305.56
For Cement Mortar Lining (CML), Add	328.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	591.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	246.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	3,444.35	333.54
For Cement Mortar Lining (CML), Add	293.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	529.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,557.87	366.99
For Cement Mortar Lining (CML), Add	300.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	540.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	225.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,635.82	374.15
For Cement Mortar Lining (CML), Add	306.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	552.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	230.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,983.30	381.04
For Cement Mortar Lining (CML), Add	340.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	613.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,328.30	388.18
For Cement Mortar Lining (CML), Add	374.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	673.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,374.77	400.00
For Cement Mortar Lining (CML), Add	376.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	678.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,429.95	416.63
For Cement Mortar Lining (CML), Add	379.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	683.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	284.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,120.69	444.60
For Cement Mortar Lining (CML), Add	444.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	800.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	333.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	4,876.37	500.14
For Cement Mortar Lining (CML), Add	411.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	741.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	308.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248 EA 24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,335.43	477.73
For Cement Mortar Lining (CML), Add	361.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	650.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	270.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249 EA 24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,391.97	484.87
For Cement Mortar Lining (CML), Add	365.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	658.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	274.30	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33	14	13	13-0250	EA 24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,875.13 413.00 743.40 309.75	491.77
33	14	13	13-0251	EA 24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,097.28 434.14 781.44 325.60	498.91
33	14	13	13-0252	EA 24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,863.51 508.97 916.14 381.73	510.73
33	14	13	13-0253	EA 24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,501.35 570.23 1,026.42 427.67	527.36
33	14	13	13-0254	EA 24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,263.50 642.21 1,155.97 481.66	555.34
33	14	13	13-0255	EA 24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,980.29 705.47 1,269.85 529.10	610.87
33	14	13	13-0256	EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,121.64 611.22 1,100.19 458.41	666.23
33	14	13	13-0257	EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,810.31 796.73 1,434.11 597.54	556.41
33	14	13	13-0258	EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,857.91 900.40 1,620.73 675.30	563.57
33	14	13	13-0259	EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,422.47 955.81 1,720.47 716.86	570.46
33	14	13	13-0260	EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,987.38 1,011.22 1,820.20 758.42	577.60
33	14	13	13-0261	EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,789.31 1,089.63 1,961.33 817.22	589.42

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	12,654.21	606.05
For Cement Mortar Lining (CML), Add	1,173.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,112.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	880.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	12,977.93	634.02
For Cement Mortar Lining (CML), Add	1,201.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,163.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	901.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	13,454.80	689.57
For Cement Mortar Lining (CML), Add	1,241.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,233.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	930.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	14,105.63	744.93
For Cement Mortar Lining (CML), Add	1,297.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,335.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	973.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	15,280.58	784.27
For Cement Mortar Lining (CML), Add	1,409.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,536.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,056.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	16,693.09	639.22
For Cement Mortar Lining (CML), Add	1,572.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,830.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,179.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	17,343.65	651.03
For Cement Mortar Lining (CML), Add	1,635.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,944.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,226.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	17,992.91	667.67
For Cement Mortar Lining (CML), Add	1,698.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,056.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,273.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	19,244.87	695.64
For Cement Mortar Lining (CML), Add	1,819.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,274.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,364.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	20,542.89	751.17
For Cement Mortar Lining (CML), Add	1,940.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,492.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,455.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272 EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	22,778.90	806.54
For Cement Mortar Lining (CML), Add	2,155.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,880.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,616.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273 EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	25,499.02	845.88
For Cement Mortar Lining (CML), Add	2,421.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,359.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,816.30	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0274 EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,388.31 2,906.00 5,230.80 2,179.50	876.69
33 14 13 13-0275 EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,744.38 2,555.41 4,599.73 1,916.55	785.62
33 14 13 13-0276 EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,423.78 2,614.96 4,706.92 1,961.22	840.98
33 14 13 13-0277 EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,288.49 2,795.47 5,031.84 2,096.60	880.32
33 14 13 13-0278 EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,462.31 3,208.18 5,774.73 2,406.14	911.13
33 14 13 13-0279 EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,420.65 3,801.41 6,842.53 2,851.05	928.34
33 14 13 13-0280 EA 48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,404.82 2,513.14 4,523.64 1,884.85	840.49
33 14 13 13-0281 EA 48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,887.54 2,853.02 5,135.43 2,139.76	895.86
33 14 13 13-0282 EA 48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	31,847.94 3,043.10 5,477.57 2,282.32	935.20
33 14 13 13-0283 EA 48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,271.67 3,480.80 6,265.44 2,610.60	966.01
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	47,336.82 4,584.71 8,252.47 3,438.53	983.22
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	51,948.25 5,041.69 9,075.05 3,781.27	1,010.66

33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	306.64 18.42 33.16 13.82	80.79
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	368.85 23.56 42.41 17.67	87.92
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	433.49 29.85 53.72 22.39	89.11
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	518.28 35.13 63.24 26.35	110.15
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	505.63 32.56 58.61 24.42	118.82
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	590.62 36.56 65.81 27.42	148.52
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	521.09 32.42 58.35 24.31	129.96
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	620.36 37.84 68.12 28.38	159.67
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	657.24 39.84 71.72 29.88	170.79
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	631.96 42.27 76.09 31.70	138.10
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	726.65 47.41 85.34 35.56	166.67
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross..... <i>For Cement Mortar Lining (CML), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Fusion Bonded Epoxy Lining (206N), Add</i> Note: ANSI/AWWA C104/A21.4 <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> Note: ANSI/AWWA C151/A21.51	857.14 58.84 105.91 44.13	177.40



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	926.97 63.84 114.90 47.88	190.46
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	761.35 53.41 96.14 40.06	149.99
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	886.03 61.55 110.79 46.16	178.55
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,257.86 97.11 174.80 72.83	189.28
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,277.72 97.11 174.80 72.83	202.38
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,445.68 112.10 201.79 84.08	214.26
33 14 13 13-0305 EA 14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,474.31 117.67 211.81 88.26	196.40
33 14 13 13-0306 EA 14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,727.62 141.38 254.48 106.04	207.12
33 14 13 13-0307 EA 14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,776.04 144.24 259.62 108.18	220.23
33 14 13 13-0308 EA 14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,874.01 152.23 274.02 114.17	232.11
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,070.99 169.23 304.61 126.92	249.97
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,684.96 134.95 242.92 101.22	221.38

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross.....	1,911.13	232.11
For Cement Mortar Lining (CML), Add	155.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	280.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross.....	2,277.42	245.20
For Cement Mortar Lining (CML), Add	190.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross.....	2,533.09	257.09
For Cement Mortar Lining (CML), Add	214.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	385.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	160.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross.....	3,048.53	274.94
For Cement Mortar Lining (CML), Add	263.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	473.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	197.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross.....	3,561.92	299.97
For Cement Mortar Lining (CML), Add	310.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	559.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	233.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross.....	2,754.38	261.78
For Cement Mortar Lining (CML), Add	235.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	424.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross.....	2,910.58	272.50
For Cement Mortar Lining (CML), Add	249.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	449.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross.....	3,047.53	285.59
For Cement Mortar Lining (CML), Add	261.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	470.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	196.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross.....	3,299.75	297.49
For Cement Mortar Lining (CML), Add	284.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	512.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	213.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross.....	3,839.47	315.33
For Cement Mortar Lining (CML), Add	336.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	605.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	252.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross.....	4,088.69	340.31
For Cement Mortar Lining (CML), Add	357.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	643.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	267.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross.....	4,289.84	380.69
For Cement Mortar Lining (CML), Add	371.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	668.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.48	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,462.35 296.47 533.64 222.35	328.45
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,619.97 310.61 559.09 232.96	339.18
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,732.65 319.89 575.80 239.92	352.28
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,983.45 343.17 617.70 257.38	364.16
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,057.60 347.88 626.18 260.91	382.02
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,889.47 427.28 769.11 320.46	406.99
33 14 13 13-0329 EA 20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,090.63 441.28 794.30 330.96	447.38
33 14 13 13-0330 EA 20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,518.69 473.98 853.16 355.49	514.01
33 14 13 13-0331 EA 24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,708.28 408.57 735.43 306.43	410.88
33 14 13 13-0332 EA 24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,819.10 418.00 752.40 313.50	421.59
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,001.42 434.28 781.70 325.71	434.69
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,159.38 448.27 806.89 336.21	446.59

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,256.40 455.27 819.49 341.45	464.43
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,458.48 471.70 849.05 353.77	489.42
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,177.68 637.50 1,147.49 478.12	529.80
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,581.46 667.77 1,201.99 500.83	596.49
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,360.41 733.18 1,319.72 549.88	678.93
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,926.40 809.86 1,457.76 607.40	546.31
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,104.76 825.72 1,486.29 619.29	559.42
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,279.87 841.43 1,514.57 631.07	571.30
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,488.26 859.56 1,547.21 644.67	589.16
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,728.91 879.84 1,583.71 659.88	614.13
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,015.75 902.40 1,624.33 676.80	654.53
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,386.68 929.39 1,672.91 697.05	721.21



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,312.02 1,209.44 2,176.99 907.08	803.62
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,308.94 1,390.24 2,502.42 1,042.68	928.36
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,403.45 1,150.60 2,071.09 862.95	592.29
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,580.39 1,166.31 2,099.36 874.73	605.38
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,732.65 1,179.74 2,123.53 884.80	617.28
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,916.77 1,195.45 2,151.80 896.58	635.12
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,134.56 1,213.44 2,184.19 910.08	660.12
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,397.13 1,233.58 2,220.44 925.18	700.50
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,745.21 1,258.28 2,264.91 943.71	767.17
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,341.35 1,305.41 2,349.73 979.06	849.60
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,262.99 1,778.67 3,201.61 1,334.01	974.32
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,149.15 1,960.33 3,528.59 1,470.24	1,020.34

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,600.17 1,562.46 2,812.43 1,171.85	643.86
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,748.97 1,774.64 3,194.35 1,330.98	661.72
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,986.38 1,594.59 2,870.27 1,195.95	686.69
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,220.39 1,611.87 2,901.37 1,208.91	727.08
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,557.04 1,635.44 2,943.79 1,226.58	793.77
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,111.77 1,678.42 3,021.16 1,258.82	876.18
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,150.50 2,163.40 3,894.12 1,622.55	1,000.90
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,153.49 2,856.73 5,142.12 2,142.55	1,046.87
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,295.90 3,066.95 5,520.50 2,300.21	1,073.48
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,405.28 2,126.98 3,828.57 1,595.24	749.40
33 14 13 13-0369 EA 48" x 14" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,560.86 2,139.84 3,851.70 1,604.88	767.25
33 14 13 13-0370 EA 48" x 16" Mechanical Joint Ductile Iron Cross..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,770.08 2,156.97 3,882.55 1,617.73	792.23



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Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0371 EA 48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,002.64 2,174.11 3,913.40 1,630.58	832.62
33 14 13 13-0372 EA 48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,319.32 2,195.67 3,952.21 1,646.75	899.30
33 14 13 13-0373 EA 48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,851.19 2,236.37 4,025.47 1,677.28	981.72
33 14 13 13-0374 EA 48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,264.04 2,358.76 4,245.77 1,769.07	1,106.45
33 14 13 13-0375 EA 48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,891.78 2,914.57 5,246.22 2,185.93	1,152.42
33 14 13 13-0376 EA 48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,624.78 3,783.84 6,810.91 2,837.88	1,179.00
33 14 13 13-0377 EA 48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	42,209.57 4,026.33 7,247.39 3,019.75	1,284.49
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers <small>(33 14 13 13-0002)</small>		
33 14 13 13-0379 EA 4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	149.44 8.28 14.91 6.21	43.96
33 14 13 13-0380 EA 6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	174.88 9.14 16.45 6.86	55.10
33 14 13 13-0381 EA 6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.85 10.00 17.99 7.50	58.67
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	237.35 13.71 24.68 10.28	66.10
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	262.67 14.57 26.22 10.92	77.23

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	285.28	70.47
For Cement Mortar Lining (CML), Add	17.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	311.51	81.18
For Cement Mortar Lining (CML), Add	18.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	33.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	340.90	88.32
For Cement Mortar Lining (CML), Add	20.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	343.23	77.61
For Cement Mortar Lining (CML), Add	22.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	382.31	88.32
For Cement Mortar Lining (CML), Add	24.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	44.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	400.28	95.47
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	437.86	102.37
For Cement Mortar Lining (CML), Add	28.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	702.96	100.14
For Cement Mortar Lining (CML), Add	55.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	99.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	685.24	107.29
For Cement Mortar Lining (CML), Add	52.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	618.58	114.19
For Cement Mortar Lining (CML), Add	44.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	650.81	121.33
For Cement Mortar Lining (CML), Add	46.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	825.26	116.76
For Cement Mortar Lining (CML), Add	64.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	116.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.63	
Note: ANSI/AWWA C151/A21.51		



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0396	EA	16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	811.82 62.41 112.33 46.81	123.91
33 14 13	13-0397	EA	16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	799.43 60.12 108.22 45.09	130.81
33 14 13	13-0398	EA	16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	865.95 65.69 118.25 49.27	137.96
33 14 13	13-0399	EA	16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	962.39 73.55 132.38 55.16	149.78
33 14 13	13-0400	EA	18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,031.28 80.12 144.21 60.09	151.89
33 14 13	13-0401	EA	18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,153.13 91.25 164.26 68.44	158.79
33 14 13	13-0402	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,115.41 86.40 155.52 64.80	165.93
33 14 13	13-0403	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,183.29 91.40 164.51 68.55	177.75
33 14 13	13-0404	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,248.47 95.40 171.71 71.55	194.39
33 14 13	13-0405	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,453.89 113.96 205.13 85.47	207.44
33 14 13	13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,398.66 107.39 193.31 80.54	214.32
33 14 13	13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,296.66 96.11 173.00 72.08	221.47

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,307.43 95.40 171.71 71.55	233.29
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,352.61 97.40 175.31 73.05	249.91
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,616.34 119.53 215.15 89.65	277.89
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,891.79 147.24 265.02 110.43	276.83
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,946.84 150.95 271.71 113.21	288.66
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,992.02 152.95 275.30 114.71	305.28
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,967.28 146.24 263.22 109.68	333.25
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,399.89 181.08 325.95 135.81	388.80
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,842.45 332.03 597.65 249.02	344.63
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,016.22 345.17 621.30 258.88	372.60
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,909.00 326.03 586.86 244.52	428.13
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,837.23 310.47 558.84 232.85	483.50



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,746.48	458.94
For Cement Mortar Lining (CML), Add	505.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	909.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	378.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,789.30	514.30
For Cement Mortar Lining (CML), Add	401.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	721.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	300.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,200.23	553.65
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,415.43	392.65
For Cement Mortar Lining (CML), Add	682.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,227.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	511.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,394.98	420.62
For Cement Mortar Lining (CML), Add	675.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,216.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	506.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,456.29	476.16
For Cement Mortar Lining (CML), Add	673.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,212.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	505.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0426 EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,321.33	531.53
For Cement Mortar Lining (CML), Add	751.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,352.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	563.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0427 EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,898.60	570.87
For Cement Mortar Lining (CML), Add	603.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,086.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	452.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0428 EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,222.32	601.68
For Cement Mortar Lining (CML), Add	631.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,135.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	473.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0429 EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,961.86	420.09
For Cement Mortar Lining (CML), Add	932.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,678.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	699.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,670.07	448.07
For Cement Mortar Lining (CML), Add	899.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,618.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	674.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,240.11	503.60
For Cement Mortar Lining (CML), Add	847.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,525.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	635.78	
Note: ANSI/AWWA C151/A21.51		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,539.64	558.96
For Cement Mortar Lining (CML), Add	869.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,564.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	651.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,380.07	598.31
For Cement Mortar Lining (CML), Add	1,047.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,885.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	785.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,997.23	629.12
For Cement Mortar Lining (CML), Add	904.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,627.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	678.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,963.01	646.34
For Cement Mortar Lining (CML), Add	998.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,797.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	748.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps.....	177.77	92.82
For Cement Mortar Lining (CML), Add	3.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps.....	203.59	108.91
For Cement Mortar Lining (CML), Add	3.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps.....	274.82	136.15
For Cement Mortar Lining (CML), Add	6.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	12.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps.....	349.99	155.61
For Cement Mortar Lining (CML), Add	11.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps.....	504.95	238.07
For Cement Mortar Lining (CML), Add	14.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	25.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps.....	609.14	259.72
For Cement Mortar Lining (CML), Add	21.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps.....	759.88	285.68
For Cement Mortar Lining (CML), Add	32.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps.....	919.37	317.39
For Cement Mortar Lining (CML), Add	43.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.88	
Note: ANSI/AWWA C151/A21.51		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0445	EA 18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	1,076.60 53.55 96.40 40.16	357.10
33 14 13 13-0446	EA 20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	1,310.98 69.26 124.67 51.95	408.07
33 14 13 13-0447	EA 24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	1,672.52 95.11 171.20 71.33	476.14
33 14 13 13-0448	EA 30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	3,040.68 217.50 391.49 163.12	571.36
33 14 13 13-0449	EA 36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	5,037.91 395.58 712.04 296.68	714.21
33 14 13 13-0450	EA 42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	7,297.92 599.94 1,079.88 449.95	857.04
33 14 13 13-0451	EA 48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	8,671.78 722.89 1,301.21 542.17	952.28
33 14 13 13-0452	Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0002)</small>			
33 14 13 13-0453	EA 3" Mechanical Joint Ductile Iron Plug For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	183.48 4.28 7.71 3.21	92.82
33 14 13 13-0454	EA 4" Mechanical Joint Ductile Iron Plug For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	212.16 4.71 8.48 3.53	108.91
33 14 13 13-0455	EA 6" Mechanical Joint Ductile Iron Plug For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	297.67 9.14 16.45 6.86	136.15
33 14 13 13-0456	EA 8" Mechanical Joint Ductile Iron Plug For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	.....	372.84 13.71 24.68 10.28	155.61
33 14 13 13-0457	EA 10" Mechanical Joint Ductile Iron Plug For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	597.77 23.71 42.67 17.78	238.07

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	634.85	259.72
For Cement Mortar Lining (CML), Add	24.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	924.11	285.68
For Cement Mortar Lining (CML), Add	49.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	88.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	543.79	317.39
For Cement Mortar Lining (CML), Add	6.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	1,320.80	357.10
For Cement Mortar Lining (CML), Add	77.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	140.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	1,643.73	408.07
For Cement Mortar Lining (CML), Add	102.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	2,143.79	476.14
For Cement Mortar Lining (CML), Add	142.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	3,689.02	571.36
For Cement Mortar Lining (CML), Add	282.33	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	508.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	5,443.49	714.21
For Cement Mortar Lining (CML), Add	436.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	785.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	327.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	7,349.34	857.04
For Cement Mortar Lining (CML), Add	605.08	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,089.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	453.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	9,508.63	952.28
For Cement Mortar Lining (CML), Add	806.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,451.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	604.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	306.60	141.09
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	347.50	163.37
For Cement Mortar Lining (CML), Add	10.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.50	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0471 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	447.93	204.21
For Cement Mortar Lining (CML), Add	13.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	563.55	233.35
For Cement Mortar Lining (CML), Add	20.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	906.66	357.10
For Cement Mortar Lining (CML), Add	36.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	65.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,058.66	389.57
For Cement Mortar Lining (CML), Add	46.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,393.31	428.53
For Cement Mortar Lining (CML), Add	74.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.80	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,571.13	476.14
For Cement Mortar Lining (CML), Add	84.97	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	152.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0477 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,111.15	535.65
For Cement Mortar Lining (CML), Add	129.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,475.58	612.16
For Cement Mortar Lining (CML), Add	154.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	278.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,988.62	714.21
For Cement Mortar Lining (CML), Add	190.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	343.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,807.35	857.04
For Cement Mortar Lining (CML), Add	350.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	631.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,651.47	1,071.31
For Cement Mortar Lining (CML), Add	502.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	905.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	377.12	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,865.52	1,224.32
For Cement Mortar Lining (CML), Add	701.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,261.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	525.78	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0483 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,944.10	1,428.42
For Cement Mortar Lining (CML), Add	877.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,580.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	658.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)		
33 14 13 13-0485 EA 3" Mechanical Joint Ductile Iron Long Sleeves	292.31	141.09
For Cement Mortar Lining (CML), Add	7.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0486 EA 4" Mechanical Joint Ductile Iron Long Sleeves	340.36	163.37
For Cement Mortar Lining (CML), Add	9.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0487 EA 6" Mechanical Joint Ductile Iron Long Sleeves	465.07	204.21
For Cement Mortar Lining (CML), Add	15.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0488 EA 8" Mechanical Joint Ductile Iron Long Sleeves	609.25	233.35
For Cement Mortar Lining (CML), Add	25.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0489 EA 10" Mechanical Joint Ductile Iron Long Sleeves	845.25	357.10
For Cement Mortar Lining (CML), Add	30.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.81	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves	1,001.54	389.57
For Cement Mortar Lining (CML), Add	41.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves	1,270.49	428.53
For Cement Mortar Lining (CML), Add	62.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves	1,508.29	476.14
For Cement Mortar Lining (CML), Add	78.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	141.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.02	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves	1,818.40	535.65
For Cement Mortar Lining (CML), Add	100.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	181.22	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0494 EA 20" Mechanical Joint Ductile Iron Long Sleeves	2,142.84	612.16
For Cement Mortar Lining (CML), Add	121.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	218.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0495 EA 24" Mechanical Joint Ductile Iron Long Sleeves	2,683.01	714.21
For Cement Mortar Lining (CML), Add	160.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	288.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.07	
Note: ANSI/AWWA C151/A21.51		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0496 EA 30" Mechanical Joint Ductile Iron Long Sleeves <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,651.69 335.31 603.56 251.48	857.04
33 14 13 13-0497 EA 36" Mechanical Joint Ductile Iron Long Sleeves <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,331.58 470.84 847.51 353.13	1,071.31
33 14 13 13-0498 EA 42" Mechanical Joint Ductile Iron Long Sleeves <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,150.80 629.78 1,133.61 472.34	1,222.91
33 14 13 13-0499 EA 48" Mechanical Joint Ductile Iron Long Sleeves <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	11,011.22 884.70 1,592.45 663.52	1,428.42
33 14 13 13-0500 Mechanical Joint Ductile Iron Gland Packs <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0501 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0502 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	28.56	
33 14 13 13-0503 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	38.45	
33 14 13 13-0504 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	46.46	
33 14 13 13-0505 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	54.47	
33 14 13 13-0506 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	75.30	
33 14 13 13-0507 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	80.11	
33 14 13 13-0508 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	131.38	
33 14 13 13-0509 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	139.39	
33 14 13 13-0510 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	185.85	
33 14 13 13-0511 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	240.32	
33 14 13 13-0512 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	334.85	
33 14 13 13-0513 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	799.48	
33 14 13 13-0514 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	1,723.92	
33 14 13 13-0515 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	2,516.99	
33 14 13 13-0516 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	3,088.96	
33 14 13 13-0517 Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0518 EA 3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	48.55	
33 14 13 13-0519 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	54.47	
33 14 13 13-0520 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	68.89	
33 14 13 13-0521 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	75.30	
33 14 13 13-0522 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	104.14	
33 14 13 13-0523 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	108.95	
33 14 13 13-0524 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	165.02	
33 14 13 13-0525 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	181.04	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0526 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	240.32	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0527 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	310.82	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0528 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	434.19	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts <small>(33 14 13 13-0500)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0530 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	31.42	
33 14 13 13-0531 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	41.66	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0532 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	49.67	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0533 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	59.28	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0534 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	81.71	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0535 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	86.52	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0536 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	142.59	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0537 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	150.60	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0538 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	203.47	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0539 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	261.15	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0540 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	365.29	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0541 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	874.78	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0542 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	1,938.61	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0543 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	2,806.98	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0544 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	3,454.26	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0545 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0546 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	190.87	70.77
33 14 13 13-0547 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	217.87	83.82
33 14 13 13-0548 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	270.26	103.74
33 14 13 13-0549 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	336.86	121.07
33 14 13 13-0550 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	489.87	178.55
33 14 13 13-0551 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	603.21	204.09
33 14 13 13-0552 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	701.60	219.68
33 14 13 13-0553 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	863.13	238.07
33 14 13 13-0554 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,106.63	285.68
33 14 13 13-0555 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,305.27	317.29
33 14 13 13-0556 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,692.97	366.09
33 14 13 13-0557 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,274.35	439.02
33 14 13 13-0558 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,043.80	549.39
33 14 13 13-0559 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	5,960.01	633.91
33 14 13 13-0560 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	7,632.62	815.28
33 14 13 13-0561 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) <small>(33 14 13 13-0002)</small>		
33 14 13 13-0562 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,029.12	57.92
33 14 13 13-0563 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,195.59	72.41
33 14 13 13-0564 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,088.09	107.00
33 14 13 13-0565 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	8,273.28	126.92
33 14 13 13-0566 EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	10,430.91	142.52
33 14 13 13-0567 EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	13,911.79	167.19
33 14 13 13-0568 EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	17,136.98	187.48
33 14 13 13-0569 EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	20,273.59	214.26
33 14 13 13-0570 EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,858.78	299.97
33 14 13 13-0571 EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	30,751.19	374.95
33 14 13 13-0572 EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	42,608.67	499.95
33 14 13 13-0573 Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) <small>(33 14 13 13-0002)</small>		
Note: Includes machined bolts and gasket.		
33 14 13 13-0574 EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	189.52	70.77



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0575	EA	4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	242.90	83.82
33 14 13 13-0576	EA	6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	313.69	103.74
33 14 13 13-0577	EA	8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	358.16	121.07
33 14 13 13-0578	EA	10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	627.63	185.64
33 14 13 13-0579	EA	12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	710.43	212.20
33 14 13 13-0580		Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002) Note: Includes nuts, bolts and gasket.		
33 14 13 13-0581	EA	3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	274.60	70.77
33 14 13 13-0582	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	341.34	83.82
33 14 13 13-0583	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	471.96	103.74
33 14 13 13-0584	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	680.89	121.07
33 14 13 13-0585	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	986.96	185.64
33 14 13 13-0586	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,226.17	212.20
33 14 13 13-0587	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	1,884.25	228.40
33 14 13 13-0588	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,636.97	247.53
33 14 13 13-0589	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	2,983.47	297.04
33 14 13 13-0590	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,295.73	329.89
33 14 13 13-0591	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	3,986.10	380.64
33 14 13 13-0592	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,126.64	456.47
33 14 13 13-0593	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	7,651.60	571.23
33 14 13 13-0594	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	19,915.81	659.11
33 14 13 13-0595	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	25,509.49	847.68
33 14 13 13-0596		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001) Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.		
33 14 13 13-0597		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0598	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	365.39	40.40
33 14 13 13-0599	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	437.29	48.38
33 14 13 13-0600	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	677.82	70.89
33 14 13 13-0601	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	923.69	84.39
33 14 13 13-0602	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,263.54	95.22
33 14 13 13-0603	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,599.74	111.46
33 14 13 13-0604	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,265.79	125.53
33 14 13 13-0605	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,746.98	142.85
33 14 13 13-0606	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,326.21	200.19
33 14 13 13-0607	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,146.01	249.97
33 14 13 13-0608	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,856.85	333.29
33 14 13 13-0609	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	9,333.76	357.10
33 14 13 13-0610	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	13,708.56	371.17
33 14 13 13-0611	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	22,540.32	428.53
33 14 13 13-0612	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	29,459.40	455.57
33 14 13 13-0613		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0614	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	349.68	40.40
33 14 13 13-0615	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	410.16	48.38
33 14 13 13-0616	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	630.70	70.89
33 14 13 13-0617	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	850.86	84.39
33 14 13 13-0618	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,109.31	95.22
33 14 13 13-0619	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,461.21	111.46
33 14 13 13-0620	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,968.75	125.53
33 14 13 13-0621	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,355.68	142.85
33 14 13 13-0622	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,793.53	200.19
33 14 13 13-0623	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,393.41	249.97
33 14 13 13-0624	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,473.04	333.29
33 14 13 13-0625	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	8,167.02	357.10
33 14 13 13-0626	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	11,262.26	371.17
33 14 13 13-0627	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	16,705.18	428.53
33 14 13 13-0628	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	21,362.19	455.57
33 14 13 13-0629		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0630	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	273.99	40.40
33 14 13 13-0631	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	405.87	48.38
33 14 13 13-0632	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	613.56	70.89
33 14 13 13-0633	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	845.15	84.39
33 14 13 13-0634	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,107.88	95.22
33 14 13 13-0635	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,378.38	111.46
33 14 13 13-0636	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,980.17	125.53
33 14 13 13-0637	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,304.27	142.85
33 14 13 13-0638	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,780.68	200.19

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0639 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,511.94	249.97
33 14 13 13-0640 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,378.79	333.29
33 14 13 13-0641 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	7,277.32	357.10
33 14 13 13-0642 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,905.59	371.17
33 14 13 13-0643 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	14,150.35	428.53
33 14 13 13-0644 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	18,096.17	455.57
33 14 13 13-0645 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0646 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	273.99	40.40
33 14 13 13-0647 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	484.42	48.38
33 14 13 13-0648 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	619.27	70.89
33 14 13 13-0649 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	819.44	84.39
33 14 13 13-0650 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,105.03	95.22
33 14 13 13-0651 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,339.83	111.46
33 14 13 13-0652 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,130.12	125.53
33 14 13 13-0653 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,374.25	142.85
33 14 13 13-0654 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,186.25	200.19
33 14 13 13-0655 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,389.12	249.97
33 14 13 13-0656 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,380.22	333.29
33 14 13 13-0657 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	7,371.58	357.10
33 14 13 13-0658 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,635.68	371.17
33 14 13 13-0659 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	13,764.77	428.53
33 14 13 13-0660 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,993.35	455.57
33 14 13 13-0661 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0662 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	321.12	40.40
33 14 13 13-0663 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	470.14	48.38
33 14 13 13-0664 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	732.09	70.89
33 14 13 13-0665 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	992.24	84.39
33 14 13 13-0666 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,363.51	95.22
33 14 13 13-0667 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,709.70	111.46
33 14 13 13-0668 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,055.52	125.53
33 14 13 13-0669 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	4,756.29	142.85
33 14 13 13-0670 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,444.05	200.19
33 14 13 13-0671 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,279.56	249.97
33 14 13 13-0672 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,805.10	333.29
33 14 13 13-0673 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow <small>(33 14 13 13-0596)</small>		
33 14 13 13-0674 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	321.12	40.40
33 14 13 13-0675 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	415.87	48.38
33 14 13 13-0676 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	653.55	70.89
33 14 13 13-0677 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	920.83	84.39
33 14 13 13-0678 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,219.27	95.22
33 14 13 13-0679 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,584.03	111.46
33 14 13 13-0680 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,105.84	125.53
33 14 13 13-0681 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,528.48	142.85
33 14 13 13-0682 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,715.72	200.19
33 14 13 13-0683 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	4,957.14	249.97
33 14 13 13-0684 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	5,179.94	333.29
33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee <small>(33 14 13 13-0596)</small>		

33 Utilities

33 10 Water Utilities

33 14 Water Utility Transmission and Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0767 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,805.39	928.47
33 14 13 13-0768 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,644.31	728.27
33 14 13 13-0769 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,086.36	740.18
33 14 13 13-0770 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,714.20	757.49
33 14 13 13-0771 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,354.96	784.55
33 14 13 13-0772 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,041.75	840.82
33 14 13 13-0773 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,205.61	896.00
33 14 13 13-0774 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,205.99	934.96
33 14 13 13-0775 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,530.34	966.34
33 14 13 13-0776 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,462.97	983.66
33 14 13 13-0777 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	39,194.06	1,010.71
33 14 13 13-0778 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) <small>(33 14 13 13-0596)</small>		
33 14 13 13-0779 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	508.18	67.72
33 14 13 13-0780 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	558.17	67.72
33 14 13 13-0781 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	653.55	70.89
33 14 13 13-0782 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	723.09	89.85
33 14 13 13-0783 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	805.81	93.39
33 14 13 13-0784 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	984.07	104.64
33 14 13 13-0785 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,288.18	108.02
33 14 13 13-0786 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,190.81	119.26
33 14 13 13-0787 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,337.74	127.14
33 14 13 13-0788 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,886.89	117.95
33 14 13 13-0789 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,965.96	128.77
33 14 13 13-0790 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,198.14	136.34
33 14 13 13-0791 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,398.53	142.85
33 14 13 13-0792 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,301.26	132.02
33 14 13 13-0793 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,608.80	142.85
33 14 13 13-0794 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,085.19	150.42
33 14 13 13-0795 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,088.51	156.91
33 14 13 13-0796 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,852.27	164.48
33 14 13 13-0797 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,387.23	166.65
33 14 13 13-0798 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,892.18	174.22
33 14 13 13-0799 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,123.64	180.72
33 14 13 13-0800 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,494.34	188.29
33 14 13 13-0801 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,355.15	200.19
33 14 13 13-0802 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,529.02	200.19
33 14 13 13-0803 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,896.87	206.69
33 14 13 13-0804 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,622.79	214.26
33 14 13 13-0805 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,769.28	220.76
33 14 13 13-0806 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,903.95	232.66
33 14 13 13-0807 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,586.40	249.97
33 14 13 13-0808 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,999.03	256.46
33 14 13 13-0809 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,391.16	262.96
33 14 13 13-0810 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,770.05	269.45
33 14 13 13-0811 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,180.74	277.03
33 14 13 13-0812 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,244.35	288.93
33 14 13 13-0813 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,316.67	305.16
33 14 13 13-0814 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,729.28	333.29
33 14 13 13-0815 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,891.36	366.84
33 14 13 13-0816 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,020.72	374.41
33 14 13 13-0817 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,630.96	380.91
33 14 13 13-0818 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,235.87	388.49
33 14 13 13-0819 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,303.77	400.39
33 14 13 13-0820 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,383.22	416.62
33 14 13 13-0821 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,576.64	444.75
33 14 13 13-0822 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,078.13	499.95
33 14 13 13-0823 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,143.04	477.22
33 14 13 13-0824 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,235.28	484.79
33 14 13 13-0825 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,085.45	491.28
33 14 13 13-0826 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,471.84	498.86
33 14 13 13-0827 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,819.29	510.77
33 14 13 13-0828 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,934.11	527.00
33 14 13 13-0829 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,254.64	555.13
33 14 13 13-0830 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,464.11	611.40
33 14 13 13-0831 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	11,872.86	666.60
33 14 13 13-0832 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,003.89	556.22
33 14 13 13-0833 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,856.93	563.79
33 14 13 13-0834 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	17,851.34	570.28
33 14 13 13-0835 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,847.54	577.85
33 14 13 13-0836 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,259.25	589.76
33 14 13 13-0837 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,776.79	605.99
33 14 13 13-0838 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,319.00	634.13
33 14 13 13-0839 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	23,101.48	689.31
33 14 13 13-0840 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,192.16	744.51
33 14 13 13-0841 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	26,233.96	784.55
33 14 13 13-0842 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	28,916.03	639.54
33 14 13 13-0843 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	30,057.84	651.44
33 14 13 13-0844 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	31,192.65	667.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0845 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	33,384.29	695.81
33 14 13 13-0846 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,626.27	751.00
33 14 13 13-0847 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,534.56	806.19
33 14 13 13-0848 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,322.54	846.22
33 14 13 13-0849 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,976.25	876.63
33 14 13 13-0850 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	46,607.55	785.63
33 14 13 13-0851 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	47,749.65	840.82
33 14 13 13-0852 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,016.72	880.85
33 14 13 13-0853 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,399.44	911.16
33 14 13 13-0854 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	68,969.05	928.47
33 14 13 13-0855 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	45,939.53	840.82
33 14 13 13-0856 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,064.20	896.00
33 14 13 13-0857 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	55,501.23	934.96
33 14 13 13-0858 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	63,328.08	966.34
33 14 13 13-0859 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	82,973.13	983.66
33 14 13 13-0860 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	91,136.19	1,010.71
33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee <small>(33 14 13 13-0596)</small>		
33 14 13 13-0862 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	901.24	104.64
33 14 13 13-0863 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,119.41	119.26
33 14 13 13-0864 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,603.23	128.77
33 14 13 13-0865 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	1,844.78	142.85
33 14 13 13-0866 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,437.55	166.65
33 14 13 13-0867 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	2,969.22	200.19
33 14 13 13-0868 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	3,506.69	256.46
33 14 13 13-0869 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	4,716.05	366.84
33 14 13 13-0870 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	5,506.10	477.22
33 14 13 13-0871 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee.....	9,978.48	556.22
33 14 13 13-0872 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross <small>(33 14 13 13-0596)</small>		
33 14 13 13-0873 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	506.57	80.79
33 14 13 13-0874 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	631.62	87.92
33 14 13 13-0875 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	787.65	88.88
33 14 13 13-0876 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	836.74	110.20
33 14 13 13-0877 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	978.33	119.26
33 14 13 13-0878 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,081.88	148.52
33 14 13 13-0879 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,039.49	130.52
33 14 13 13-0880 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,225.87	159.77
33 14 13 13-0881 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,214.20	171.02
33 14 13 13-0882 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,223.19	138.51
33 14 13 13-0883 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,372.14	166.65
33 14 13 13-0884 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,628.30	177.46
33 14 13 13-0885 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,763.83	190.46
33 14 13 13-0886 EA 12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	1,569.65	150.42
33 14 13 13-0887 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,817.14	178.55
33 14 13 13-0888 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,971.90	189.38
33 14 13 13-0889 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,298.80	202.36
33 14 13 13-0890 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,623.85	214.26
33 14 13 13-0891 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,711.03	195.87
33 14 13 13-0892 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,212.82	206.69
33 14 13 13-0893 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,291.23	220.76
33 14 13 13-0894 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,473.46	231.58
33 14 13 13-0895 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,848.95	249.97
33 14 13 13-0896 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,034.49	221.84
33 14 13 13-0897 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,470.60	231.58
33 14 13 13-0898 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,183.07	245.64
33 14 13 13-0899 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,676.64	257.54
33 14 13 13-0900 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,679.05	274.86
33 14 13 13-0901 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,928.25	299.76
33 14 13 13-0902 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,232.10	261.88
33 14 13 13-0903 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,535.39	272.70
33 14 13 13-0904 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,795.16	285.68
33 14 13 13-0905 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,294.43	297.58
33 14 13 13-0906 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,372.54	314.90
33 14 13 13-0907 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,843.11	339.79
33 14 13 13-0908 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,191.35	380.91
33 14 13 13-0909 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,578.42	328.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0910	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	6,884.56	338.70
33 14 13 13-0911	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,094.35	352.78
33 14 13 13-0912	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,589.35	364.68
33 14 13 13-0913	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	7,713.49	382.00
33 14 13 13-0914	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,379.35	406.88
33 14 13 13-0915	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,727.60	446.92
33 14 13 13-0916	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,499.83	514.01
33 14 13 13-0917	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,002.51	411.21
33 14 13 13-0918	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,211.87	422.04
33 14 13 13-0919	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,565.57	435.02
33 14 13 13-0920	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	9,870.62	446.92
33 14 13 13-0921	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,040.47	464.24
33 14 13 13-0922	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	10,415.34	489.12
33 14 13 13-0923	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,876.80	530.24
33 14 13 13-0924	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,599.05	596.25
33 14 13 13-0925	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,066.33	678.50
33 14 13 13-0926	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	13,963.24	546.48
33 14 13 13-0927	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,240.13	559.46
33 14 13 13-0928	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,512.35	571.36
33 14 13 13-0929	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	14,833.57	588.68
33 14 13 13-0930	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,201.31	614.65
33 14 13 13-0931	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	15,628.10	654.69
33 14 13 13-0932	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	16,166.12	720.70
33 14 13 13-0933	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,833.72	804.02
33 14 13 13-0934	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	23,954.55	928.47
33 14 13 13-0935	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,559.56	591.93
33 14 13 13-0936	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	19,833.61	604.91
33 14 13 13-0937	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,070.12	616.81
33 14 13 13-0938	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,351.35	635.21
33 14 13 13-0939	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	20,680.53	660.10
33 14 13 13-0940	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,068.77	700.14
33 14 13 13-0941	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	21,571.09	767.23
33 14 13 13-0942	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	22,459.98	849.47
33 14 13 13-0943	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,324.89	973.91
33 14 13 13-0944	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	33,340.67	1,020.45
33 14 13 13-0945	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,316.83	643.87
33 14 13 13-0946	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	26,865.11	661.19
33 14 13 13-0947	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,184.30	687.15
33 14 13 13-0948	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	27,626.81	727.19
33 14 13 13-0949	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	28,424.73	794.29
33 14 13 13-0950	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	30,110.50	876.53
33 14 13 13-0951	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,604.45	1,000.97
33 14 13 13-0952	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	47,920.24	1,046.42
33 14 13 13-0953	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	51,369.34	1,073.48
33 14 13 13-0954	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,633.59	749.92
33 14 13 13-0955	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	35,869.14	767.23
33 14 13 13-0956	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,184.04	792.12
33 14 13 13-0957	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,523.70	832.16
33 14 13 13-0958	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	36,974.62	899.26
33 14 13 13-0959	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	37,759.26	981.50
33 14 13 13-0960	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	39,933.28	1,105.94
33 14 13 13-0961	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	49,018.40	1,152.47
33 14 13 13-0962	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	63,156.68	1,179.53
33 14 13 13-0963	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross.....	67,249.52	1,284.49

33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0964)

33 14 13 13-0965	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	359.37	43.96
33 14 13 13-0966	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	501.91	55.10
33 14 13 13-0967	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	551.58	58.51
33 14 13 13-0968	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	722.89	66.38
33 14 13 13-0969	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	752.51	77.64
33 14 13 13-0970	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	885.07	70.34
33 14 13 13-0971	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	927.01	81.16
33 14 13 13-0972	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	964.97	88.73
33 14 13 13-0973	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,022.99	77.91
33 14 13 13-0974	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,132.05	88.73
33 14 13 13-0975	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,151.45	95.22
33 14 13 13-0976	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,203.31	102.81



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0977	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,766.88	100.64
33 14 13 13-0978	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,777.72	107.13
33 14 13 13-0979	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,549.69	114.71
33 14 13 13-0980	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,581.92	121.20
33 14 13 13-0981	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,117.67	116.87
33 14 13 13-0982	EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,055.68	124.44
33 14 13 13-0983	EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,931.90	130.94
33 14 13 13-0984	EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		1,909.87	137.43
33 14 13 13-0985	EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,159.12	149.34
33 14 13 13-0986	EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,305.13	151.50
33 14 13 13-0987	EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,598.35	159.07
33 14 13 13-0988	EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,483.51	165.56
33 14 13 13-0989	EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,966.96	177.46
33 14 13 13-0990	EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,602.29	194.78
33 14 13 13-0991	EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,070.47	207.77
33 14 13 13-0992	EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,095.22	214.26
33 14 13 13-0993	EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,814.71	221.84
33 14 13 13-0994	EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,814.05	233.74
33 14 13 13-0995	EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		2,747.84	249.97
33 14 13 13-0996	EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,248.64	278.11
33 14 13 13-0997	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,869.68	277.03
33 14 13 13-0998	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,927.59	288.93
33 14 13 13-0999	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,998.48	305.16
33 14 13 13-1000	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		3,940.89	333.29
33 14 13 13-1001	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		4,546.29	388.49
33 14 13 13-1002	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		7,042.77	344.12
33 14 13 13-1003	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		7,343.65	372.25
33 14 13 13-1004	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		7,082.19	428.53
33 14 13 13-1005	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		6,015.05	483.71
33 14 13 13-1006	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		9,289.55	458.82
33 14 13 13-1007	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		8,643.69	514.01
33 14 13 13-1008	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		9,228.84	554.05
33 14 13 13-1009	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		13,714.69	392.82
33 14 13 13-1010	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		13,637.12	420.95
33 14 13 13-1011	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		13,677.00	476.14
33 14 13 13-1012	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		14,216.45	531.32
33 14 13 13-1013	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		11,631.26	571.36
33 14 13 13-1014	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		12,172.04	601.66
33 14 13 13-1015	EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		17,276.49	419.87
33 14 13 13-1016	EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		16,721.93	448.00
33 14 13 13-1017	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		15,889.25	503.19
33 14 13 13-1018	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....		16,357.30	559.46

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1019 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,594.38	598.42
33 14 13 13-1020 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,956.26	628.72
33 14 13 13-1021 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	18,644.65	646.03
33 14 13 13-1022 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps <small>(33 14 13 13-0596)</small>		
33 14 13 13-1023 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	336.29	92.82
33 14 13 13-1024 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	404.95	109.14
33 14 13 13-1025 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	589.00	136.15
33 14 13 13-1026 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	785.55	155.27
33 14 13 13-1027 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,053.33	238.07
33 14 13 13-1028 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,321.75	259.72
33 14 13 13-1029 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,501.05	285.68
33 14 13 13-1030 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,821.92	317.06
33 14 13 13-1031 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,131.95	357.10
33 14 13 13-1032 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,567.70	407.96
33 14 13 13-1033 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,284.82	476.14
33 14 13 13-1034 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	5,913.97	571.36
33 14 13 13-1035 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	9,659.18	714.21
33 14 13 13-1036 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	13,894.23	857.04
33 14 13 13-1037 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	16,533.35	952.28
33 14 13 13-1038 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug <small>(33 14 13 13-0596)</small>		
33 14 13 13-1039 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	337.72	92.82
33 14 13 13-1040 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	419.23	109.14
33 14 13 13-1041 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	626.13	136.15
33 14 13 13-1042 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	822.68	155.27
33 14 13 13-1043 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,266.11	238.07
33 14 13 13-1044 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,370.31	259.72
33 14 13 13-1045 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,810.95	285.68
33 14 13 13-1046 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,180.37	317.06
33 14 13 13-1047 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,590.36	357.10
33 14 13 13-1048 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,187.49	407.96
33 14 13 13-1049 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,167.38	476.14
33 14 13 13-1050 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,133.55	571.36
33 14 13 13-1051 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	10,417.49	714.21
33 14 13 13-1052 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	13,989.91	857.04
33 14 13 13-1053 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,562.65	952.28
33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters <small>(33 14 13 13-0596)</small>		
33 14 13 13-1055 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	460.83	141.09
33 14 13 13-1056 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	605.98	163.14
33 14 13 13-1057 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	830.66	204.78
33 14 13 13-1058 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,086.22	232.91
33 14 13 13-1059 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,609.27	357.10
33 14 13 13-1060 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,915.51	389.57
33 14 13 13-1061 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,491.50	428.53
33 14 13 13-1062 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,826.41	476.14
33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,693.47	535.65
33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	4,282.10	612.48
33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	5,179.29	714.21
33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,103.36	857.04
33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	11,007.11	1,071.31
33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	14,937.73	1,223.89
33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	18,550.05	1,428.42



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0596)</small>		
33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	477.96	141.09
33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	584.56	163.14
33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	854.94	204.78
33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,151.92	232.91
33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,517.88	357.10
33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,829.82	389.57
33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,308.71	428.53
33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,729.30	476.14
33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,253.62	535.65
33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,786.56	612.48
33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,725.16	714.21
33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	7,867.73	857.04
33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,220.24	1,071.31
33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,276.18	1,222.81
33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	19,656.81	1,428.42
33 14 13 13-1086 Push-On Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small>		
33 14 13 13-1087 Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1086)</small>		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	33.20	9.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.40	
For Cement Mortar Lining (CML), Add	1.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.44	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.66	
For Class 51, Add	2.78	
For Class 52, Add	6.00	
For Class 53, Add	10.78	
For Class 54, Add	15.37	
For Class 55, Add	17.69	
For Class 56, Add	19.97	
33 14 13 13-1089 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	36.41	10.24
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.70	
For Cement Mortar Lining (CML), Add	2.10	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	11.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.58	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.82	
For Class 51, Add	3.05	
For Class 52, Add	6.58	
For Class 53, Add	11.83	
For Class 54, Add	16.86	
For Class 55, Add	19.41	
For Class 56, Add	21.91	
33 14 13 13-1090 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	45.58	11.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.10	
For Cement Mortar Lining (CML), Add	2.87	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.50	
For Fusion Bonded Epoxy Lining (206N), Add	5.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.15	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.28	
For Class 51, Add	4.12	
For Class 52, Add	8.89	
For Class 53, Add	16.02	
For Class 54, Add	22.85	
For Class 55, Add	26.28	
For Class 56, Add	29.65	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1091 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	64.84	16.13
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.29	
For Cement Mortar Lining (CML), Add	4.05	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.25	
For Fusion Bonded Epoxy Lining (206N), Add	7.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.24	
For Class 51, Add	5.82	
For Class 52, Add	12.56	
For Class 53, Add	22.61	
For Class 54, Add	32.25	
For Class 55, Add	37.09	
For Class 56, Add	41.85	
33 14 13 13-1092 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	75.34	17.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.14	
For Cement Mortar Lining (CML), Add	4.83	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	19.31	
For Fusion Bonded Epoxy Lining (206N), Add	8.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.77	
For Class 51, Add	6.92	
For Class 52, Add	14.92	
For Class 53, Add	26.89	
For Class 54, Add	38.35	
For Class 55, Add	44.11	
For Class 56, Add	49.75	
33 14 13 13-1093 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	91.95	20.12
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.08	
For Cement Mortar Lining (CML), Add	6.15	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.92	
For Fusion Bonded Epoxy Lining (206N), Add	11.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.62	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.60	
For Class 51, Add	8.77	
For Class 52, Add	18.92	
For Class 53, Add	34.12	
For Class 54, Add	48.68	
For Class 55, Add	55.96	
For Class 56, Add	63.11	
33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	109.04	22.94
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.46	
For Cement Mortar Lining (CML), Add	7.43	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.03	
For Fusion Bonded Epoxy Lining (206N), Add	13.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.57	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.45	
For Class 51, Add	10.56	
For Class 52, Add	22.79	
For Class 53, Add	41.12	
For Class 54, Add	58.68	
For Class 55, Add	67.44	
For Class 56, Add	76.05	
33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	126.87	26.84
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.38	
For Cement Mortar Lining (CML), Add	8.63	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.75	
For Fusion Bonded Epoxy Lining (206N), Add	15.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.34	
For Class 51, Add	12.27	
For Class 52, Add	26.48	
For Class 53, Add	47.76	
For Class 54, Add	68.16	
For Class 55, Add	78.34	
For Class 56, Add	88.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	146.30	32.14
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	37.09	
For Cement Mortar Lining (CML), Add	9.76	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.33	
For Fusion Bonded Epoxy Lining (206N), Add	17.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.32	
For Class 51, Add	13.91	
For Class 52, Add	30.02	
For Class 53, Add	54.14	
For Class 54, Add	77.24	
For Class 55, Add	88.79	
For Class 56, Add	100.14	
33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	185.12	40.15
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.50	
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.08	
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.26	
For Class 51, Add	17.69	
For Class 52, Add	38.17	
For Class 53, Add	68.84	
For Class 54, Add	98.23	
For Class 55, Add	112.92	
For Class 56, Add	127.34	
33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	219.51	42.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	47.92	
For Cement Mortar Lining (CML), Add	15.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.59	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-10.98	
For Class 51, Add	21.88	
For Class 52, Add	47.24	
For Class 53, Add	85.27	
For Class 54, Add	121.72	
For Class 55, Add	139.86	
For Class 56, Add	157.67	
33 14 13 13-1099 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	272.53	45.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	63.08	
For Cement Mortar Lining (CML), Add	20.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	36.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-13.63	
For Class 51, Add	28.60	
For Class 52, Add	61.78	
For Class 53, Add	111.64	
For Class 54, Add	159.41	
For Class 55, Add	183.08	
For Class 56, Add	206.33	
33 14 13 13-1100 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	332.53	48.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	80.44	
For Cement Mortar Lining (CML), Add	25.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.46	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-16.63	
For Class 51, Add	36.28	
For Class 52, Add	78.40	
For Class 53, Add	141.79	
For Class 54, Add	202.52	
For Class 55, Add	232.52	
For Class 56, Add	261.97	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1101 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	400.64	50.86
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	100.28	
For Cement Mortar Lining (CML), Add	32.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	58.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.26	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-20.03	
For Class 51, Add	45.06	
For Class 52, Add	97.39	
For Class 53, Add	176.25	
For Class 54, Add	251.78	
For Class 55, Add	289.01	
For Class 56, Add	325.56	
33 14 13 13-1102 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	508.46	53.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	132.46	
For Cement Mortar Lining (CML), Add	42.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	76.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-25.42	
For Class 51, Add	59.26	
For Class 52, Add	128.13	
For Class 53, Add	232.03	
For Class 54, Add	331.54	
For Class 55, Add	380.46	
For Class 56, Add	428.47	
33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1104 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	190.70	36.23
For Cement Mortar Lining (CML), Add	13.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1105 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	276.76	53.45
For Cement Mortar Lining (CML), Add	19.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1106 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	367.72	63.46
For Cement Mortar Lining (CML), Add	27.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	557.75	71.20
For Cement Mortar Lining (CML), Add	41.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	715.72	83.54
For Cement Mortar Lining (CML), Add	54.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	97.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1109 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron	1,384.78	93.71
For Cement Mortar Lining (CML), Add	119.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1110 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron	1,565.96	107.13
For Cement Mortar Lining (CML), Add	134.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	242.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.85	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1111 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron	2,431.79	149.99
For Cement Mortar Lining (CML), Add	212.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	381.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1112 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron	2,741.65	189.04
For Cement Mortar Lining (CML), Add	236.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	425.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1113 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron	3,423.46	236.34
For Cement Mortar Lining (CML), Add	295.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	531.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	221.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1115 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron	159.82	36.23
For Cement Mortar Lining (CML), Add	10.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1116 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron	235.24	53.45
For Cement Mortar Lining (CML), Add	15.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1117 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron	323.05	63.46
For Cement Mortar Lining (CML), Add	22.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1118 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron	496.07	71.20
For Cement Mortar Lining (CML), Add	34.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	62.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1119 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron	637.13	83.54
For Cement Mortar Lining (CML), Add	46.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	83.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1120 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron	894.06	93.71
For Cement Mortar Lining (CML), Add	70.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	126.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1121 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron	1,309.00	107.13
For Cement Mortar Lining (CML), Add	108.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	195.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1122 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron	1,517.67	149.99
For Cement Mortar Lining (CML), Add	120.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	217.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1123 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron	2,115.79	189.04
For Cement Mortar Lining (CML), Add	173.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	312.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	130.33	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1124 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,626.33	236.34
For Cement Mortar Lining (CML), Add	215.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	387.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	161.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1125 Push-On Joint Ductile Iron Tee (33 14 13 13-1086)		
33 14 13 13-1126 EA 4" Tee, Push-On Joint Ductile Iron	290.98	53.45
For Cement Mortar Lining (CML), Add	21.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	37.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	15.75	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127 EA 6" Tee, Push-On Joint Ductile Iron	406.35	78.54
For Cement Mortar Lining (CML), Add	28.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	51.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1128 EA 8" Tee, Push-On Joint Ductile Iron	551.66	95.18
For Cement Mortar Lining (CML), Add	40.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129 EA 10" Tee, Push-On Joint Ductile Iron	803.25	108.22
For Cement Mortar Lining (CML), Add	64.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	115.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130 EA 12" Tee, Push-On Joint Ductile Iron	997.65	124.77
For Cement Mortar Lining (CML), Add	80.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	145.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131 EA 14" Tee, Push-On Joint Ductile Iron	1,590.66	149.99
For Cement Mortar Lining (CML), Add	136.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	245.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132 EA 16" Tee, Push-On Joint Ductile Iron	2,290.00	187.53
For Cement Mortar Lining (CML), Add	200.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron	2,882.85	250.19
For Cement Mortar Lining (CML), Add	250.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	450.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron	3,400.46	305.26
For Cement Mortar Lining (CML), Add	293.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	528.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron	4,448.04	381.56
For Cement Mortar Lining (CML), Add	387.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	696.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	290.25	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1086)



	Utilities	33
	Water Utilities	33 10
	Water Utility Transmission and Distribution	33 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	373.27 18.29 32.91 13.71	125.67
33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	457.39 22.17 39.90 16.62	155.61
33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	593.66 31.86 57.35 23.90	181.48
33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	821.39 41.56 74.81 31.17	267.83
33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	990.18 52.64 94.75 39.48	306.14
33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,136.68 63.72 114.70 47.79	329.62
33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,344.54 80.35 144.62 60.26	357.10
33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,591.28 94.20 169.56 70.65	428.53
33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,843.51 112.21 201.98 84.16	476.14
33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,300.81 146.84 264.31 110.13	549.39
33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,634.28 263.54 474.37 197.65	659.23
33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,008.86 376.03 676.85 282.02	824.05

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron	6,311.88	952.28
For Cement Mortar Lining (CML), Add	486.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	876.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	365.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron	8,057.88	1,224.32
For Cement Mortar Lining (CML), Add	620.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,116.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	465.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron	9,777.33	1,428.74
For Cement Mortar Lining (CML), Add	761.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,370.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	570.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1086)		
Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	41.18	19.56
33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	54.67	25.53
33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	72.04	26.48
33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	83.82	28.13
33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	98.75	31.24
33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	122.80	35.15
33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	144.31	40.17
33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	161.89	43.53
33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	189.42	52.23
33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	223.98	54.24
33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	283.34	60.26
33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	364.14	65.27
33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	445.79	71.42
33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	524.35	80.35
33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	714.62	87.13
33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1086)		
33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400)	226.11	73.05
33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600)	297.49	89.16
33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800)	382.39	108.76
33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000)	572.94	132.67
33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200)	710.34	161.78
33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400)	1,215.86	197.38
33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600)	1,389.76	240.88
33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800)	1,579.89	293.80
33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000)	2,143.19	358.51
33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400)	2,731.41	437.29
33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000)	4,690.61	533.60
33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600)	6,643.96	650.90
33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200)	12,027.16	794.18
33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800)	15,553.16	968.84
33 14 13 13-1183 Ductile Iron Pipe Repair (33 14 13 13-0001)		
See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
33 14 13 13-1184 Ductile Iron Pipe Repair (33 14 13 13-1183)		
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1185 EA 30" Diameter Mechanical Ductile Iron Push Joint	2,986.67	
33 14 13 13-1186 EA 36" Diameter Mechanical Ductile Iron Push Joint	3,776.77	
33 14 13 13-1187 EA 42" Diameter Mechanical Ductile Iron Push Joint	4,748.23	
33 14 13 13-1188 EA 48" Diameter Mechanical Ductile Iron Push Joint	5,951.86	
33 14 13 13-1189 EA 54" Diameter Mechanical Ductile Iron Push Joint	8,584.84	
33 14 13 13-1190 WEKO Seals (33 14 13 13-1183)		
Note: Internal joint seal.		
33 14 13 13-1191 EA 16" WEKO Internal Joint Seal	1,647.28	220.50
For Extra Wide Seals, Add	86.71	
33 14 13 13-1192 EA 18" WEKO Internal Joint Seal	1,754.24	232.83
For Extra Wide Seals, Add	87.64	
33 14 13 13-1193 EA 20" WEKO Internal Joint Seal	1,860.99	245.16
For Extra Wide Seals, Add	88.57	
33 14 13 13-1194 EA 24" WEKO Internal Joint Seal	1,973.45	264.77
For Extra Wide Seals, Add	90.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1195 EA 30" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,041.19 91.55	284.38
33 14 13 13-1196 EA 36" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,145.42 93.40	308.91
33 14 13 13-1197 EA 42" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,290.64 95.63	338.32
33 14 13 13-1198 EA 48" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,473.16 97.49	362.83
33 14 13 13-1199 EA 54" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,567.74 98.97	382.45
33 14 13 13-1200 EA 60" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,681.66 101.20	411.87
 33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23) Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0002 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	9.06	3.40
33 14 13 23-0004 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	12.85	4.12
33 14 13 23-0005 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	17.22	4.63
33 14 13 23-0006 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	22.29	5.14
33 14 13 23-0007 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	28.50	5.76
33 14 13 23-0008 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	9.87	3.40
33 14 13 23-0010 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	14.53	4.12
33 14 13 23-0011 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	20.05	4.63
33 14 13 23-0012 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	26.70	5.14
33 14 13 23-0013 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	34.65	5.76
33 14 13 23-0014 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	10.67	3.40
33 14 13 23-0016 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	16.20	4.12
33 14 13 23-0017 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	22.89	4.63
33 14 13 23-0018 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	31.02	5.14
33 14 13 23-0019 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	40.81	5.76
33 14 13 23-0020 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	44.63	8.64
33 14 13 23-0022 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	54.31	10.29
33 14 13 23-0023 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	72.32	12.35
33 14 13 23-0024 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	103.25	14.41
33 14 13 23-0025 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	141.29	16.46
33 14 13 23-0026 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	177.80	17.49
33 14 13 23-0027 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	223.99	18.83
33 14 13 23-0028 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	32.95	6.48
33 14 13 23-0030 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	41.03	7.20
33 14 13 23-0031 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	50.79	8.64
33 14 13 23-0032 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	62.31	10.29
33 14 13 23-0033 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	84.66	12.35
33 14 13 23-0034 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	120.95	14.41
33 14 13 23-0035 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	164.99	16.46
33 14 13 23-0036 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	217.22	17.49
33 14 13 23-0037 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	275.13	18.83
33 14 13 23-0038 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0039 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	37.70	6.48
33 14 13 23-0040 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	47.61	7.20
33 14 13 23-0041 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	58.96	8.64
33 14 13 23-0042 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	72.91	10.29
33 14 13 23-0043 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	99.88	12.35
33 14 13 23-0044 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	143.82	14.41
33 14 13 23-0045 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	198.39	16.46
33 14 13 23-0046 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	256.78	17.49
33 14 13 23-0047 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	326.75	18.83
33 14 13 23-0048 AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0049 LF 14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	45.80	6.48
33 14 13 23-0050 LF 16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	57.24	7.20
33 14 13 23-0051 LF 18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	71.35	8.64

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0052 LF 20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	87.88	10.29
33 14 13 23-0053 LF 24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	121.46	12.35
33 14 13 23-0054 LF 30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	177.69	14.41
33 14 13 23-0055 LF 36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	250.46	16.46
33 14 13 23-0056 LF 42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	333.14	17.49
33 14 13 23-0057 LF 48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	429.23	18.83
33 14 13 23-0058 AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0001)</small>		
33 14 13 23-0059 LF 14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	51.89	6.48
33 14 13 23-0060 LF 16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	65.16	7.20
33 14 13 23-0061 LF 18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	81.35	8.64
33 14 13 23-0062 LF 20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	100.32	10.29
33 14 13 23-0063 LF 24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	139.37	12.35
33 14 13 23-0064 LF 30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	205.24	14.41
33 14 13 23-0065 LF 36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	290.70	16.46
33 14 13 23-0066 LF 42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	388.30	17.49
33 14 13 23-0067 AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0001)</small>		
33 14 13 23-0068 LF 14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	57.83	6.48
33 14 13 23-0069 LF 16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	72.87	7.20
33 14 13 23-0070 LF 18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	91.06	8.64
33 14 13 23-0071 LF 20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	112.44	10.29
33 14 13 23-0072 LF 24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	156.79	12.35
33 14 13 23-0073 LF 30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	232.04	14.41
33 14 13 23-0074 LF 36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	329.85	16.46
33 14 13 23-0075 AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings <small>(33 14 13 23)</small>		
Note: Includes rubber gaskets.		
33 14 13 23-0076 90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0077 EA 4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	194.39	13.54
For DR 25, Deduct	-10.04	
33 14 13 23-0078 EA 6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	395.67	15.23
For DR 25, Deduct	-21.91	
33 14 13 23-0079 EA 8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	593.24	16.93
For DR 25, Deduct	-33.56	
33 14 13 23-0080 EA 10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	908.13	27.88
For DR 25, Deduct	-51.14	
33 14 13 23-0081 EA 12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,184.34	46.47
For DR 25, Deduct	-65.49	
33 14 13 23-0082 EA 14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,775.69	58.08
For DR 25, Deduct	-99.57	
33 14 13 23-0083 EA 16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,119.17	69.70
For DR 25, Deduct	-118.79	
33 14 13 23-0084 EA 18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,629.82	92.94
For DR 25, Deduct	-206.64	
33 14 13 23-0085 EA 20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,468.87	116.16
For DR 25, Deduct	-254.19	
33 14 13 23-0086 EA 24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,409.34	156.83
For DR 25, Deduct	-425.74	
33 14 13 23-0087 45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0088 EA 4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	172.54	13.54
For DR 25, Deduct	-8.73	
33 14 13 23-0089 EA 6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	296.60	15.23
For DR 25, Deduct	-15.97	
33 14 13 23-0090 EA 8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	375.41	16.93
For DR 25, Deduct	-20.49	
33 14 13 23-0091 EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	533.53	27.88
For DR 25, Deduct	-28.67	
33 14 13 23-0092 EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	715.61	46.47
For DR 25, Deduct	-37.36	
33 14 13 23-0093 EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,367.96	58.08
For DR 25, Deduct	-75.11	
33 14 13 23-0094 EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,732.90	69.70
For DR 25, Deduct	-95.61	
33 14 13 23-0095 EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,984.00	92.94
For DR 25, Deduct	-167.89	
33 14 13 23-0096 EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,706.45	116.16
For DR 25, Deduct	-208.45	
33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,228.76	156.83
For DR 25, Deduct	-294.91	
33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0075)</small>		



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Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0099 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	169.89	13.54
For DR 25, Deduct	-8.57	
33 14 13 23-0100 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	296.61	15.23
For DR 25, Deduct	-15.97	
33 14 13 23-0101 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	375.42	16.93
For DR 25, Deduct	-20.49	
33 14 13 23-0102 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	533.54	27.88
For DR 25, Deduct	-28.67	
33 14 13 23-0103 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	715.62	46.47
For DR 25, Deduct	-37.36	
33 14 13 23-0104 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,363.30	55.76
For DR 25, Deduct	-75.11	
33 14 13 23-0105 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,732.88	69.70
For DR 25, Deduct	-95.61	
33 14 13 23-0106 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,984.00	92.94
For DR 25, Deduct	-167.89	
33 14 13 23-0107 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,706.45	116.16
For DR 25, Deduct	-208.45	
33 14 13 23-0108 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,228.76	156.83
For DR 25, Deduct	-294.91	
33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0110 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	150.33	13.54
For DR 25, Deduct	-7.40	
33 14 13 23-0111 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	296.61	15.23
For DR 25, Deduct	-15.97	
33 14 13 23-0112 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	375.42	16.93
For DR 25, Deduct	-20.49	
33 14 13 23-0113 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	533.54	27.88
For DR 25, Deduct	-28.67	
33 14 13 23-0114 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	715.62	46.47
For DR 25, Deduct	-37.36	
33 14 13 23-0115 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,363.30	55.76
For DR 25, Deduct	-75.11	
33 14 13 23-0116 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,732.88	69.70
For DR 25, Deduct	-95.61	
33 14 13 23-0117 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,984.00	92.94
For DR 25, Deduct	-167.89	
33 14 13 23-0118 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,706.45	116.16
For DR 25, Deduct	-208.45	
33 14 13 23-0119 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,228.76	156.83
For DR 25, Deduct	-294.91	
33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0121 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	230.86	15.23
For DR 25, Deduct	-12.02	
33 14 13 23-0122 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	443.54	16.93
For DR 25, Deduct	-24.58	
33 14 13 23-0123 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	618.11	19.19
For DR 25, Deduct	-34.79	
33 14 13 23-0124 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,275.84	34.85
For DR 25, Deduct	-72.37	
33 14 13 23-0125 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,564.04	69.70
For DR 25, Deduct	-85.48	
33 14 13 23-0126 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,814.96	87.12
For DR 25, Deduct	-158.45	
33 14 13 23-0127 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,485.78	104.55
For DR 25, Deduct	-196.60	
33 14 13 23-0128 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,400.11	139.40
For DR 25, Deduct	-247.28	
33 14 13 23-0129 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,285.71	174.25
For DR 25, Deduct	-296.23	
33 14 13 23-0130 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,221.47	118.49
For DR 25, Deduct	-419.07	
33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0132 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	442.62	22.00
For DR 25, Deduct	-23.92	
33 14 13 23-0133 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	600.88	23.70
For DR 25, Deduct	-33.21	
33 14 13 23-0134 EA 8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	615.97	24.54
For DR 25, Deduct	-34.01	
33 14 13 23-0135 EA 10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	802.14	34.85
For DR 25, Deduct	-43.95	
33 14 13 23-0136 EA 10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,083.48	35.72
For DR 25, Deduct	-60.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0137	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,158.67	36.59
		<i>For DR 25, Deduct</i>	-65.13	
33 14 13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,232.07	53.44
		<i>For DR 25, Deduct</i>	-67.51	
33 14 13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,412.53	54.31
		<i>For DR 25, Deduct</i>	-78.24	
33 14 13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,497.94	55.18
		<i>For DR 25, Deduct</i>	-83.25	
33 14 13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,527.21	60.40
		<i>For DR 25, Deduct</i>	-84.38	
33 14 13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,312.06	62.73
		<i>For DR 25, Deduct</i>	-131.20	
33 14 13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,404.65	63.60
		<i>For DR 25, Deduct</i>	-136.65	
33 14 13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,497.45	64.48
		<i>For DR 25, Deduct</i>	-142.11	
33 14 13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,598.45	69.70
		<i>For DR 25, Deduct</i>	-147.54	
33 14 13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,707.93	79.00
		<i>For DR 25, Deduct</i>	-153.00	
33 14 13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,884.96	76.67
		<i>For DR 25, Deduct</i>	-163.90	
33 14 13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,975.77	76.67
		<i>For DR 25, Deduct</i>	-169.35	
33 14 13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,068.36	77.54
		<i>For DR 25, Deduct</i>	-174.80	
33 14 13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,160.96	78.41
		<i>For DR 25, Deduct</i>	-180.25	
33 14 13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,280.82	92.94
		<i>For DR 25, Deduct</i>	-185.70	
33 14 13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,380.94	97.58
		<i>For DR 25, Deduct</i>	-191.15	
33 14 13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,566.64	99.90
		<i>For DR 25, Deduct</i>	-202.01	
33 14 13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,659.86	100.78
		<i>For DR 25, Deduct</i>	-207.50	
33 14 13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,752.44	101.64
		<i>For DR 25, Deduct</i>	-212.95	
33 14 13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,853.72	106.87
		<i>For DR 25, Deduct</i>	-218.40	
33 14 13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,963.12	116.16
		<i>For DR 25, Deduct</i>	-223.85	
33 14 13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,062.63	120.81
		<i>For DR 25, Deduct</i>	-229.26	
33 14 13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,189.37	127.78
		<i>For DR 25, Deduct</i>	-236.03	
33 14 13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,522.71	123.13
		<i>For DR 25, Deduct</i>	-256.59	
33 14 13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,679.56	124.01
		<i>For DR 25, Deduct</i>	-265.89	
33 14 13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,741.42	124.88
		<i>For DR 25, Deduct</i>	-269.50	
33 14 13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,812.09	130.11
		<i>For DR 25, Deduct</i>	-273.11	
33 14 13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,890.84	139.40
		<i>For DR 25, Deduct</i>	-276.72	
33 14 13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,997.66	144.05
		<i>For DR 25, Deduct</i>	-282.57	
33 14 13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,109.13	151.02
		<i>For DR 25, Deduct</i>	-288.43	
33 14 13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,197.41	162.63
		<i>For DR 25, Deduct</i>	-292.33	
33 14 13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,329.84	163.80
		<i>For DR 25, Deduct</i>	-300.14	
33 14 13 23-0169	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,396.67	164.66
		<i>For DR 25, Deduct</i>	-304.04	
33 14 13 23-0170	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,463.47	165.54
		<i>For DR 25, Deduct</i>	-307.94	
33 14 13 23-0171	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,738.50	170.77
		<i>For DR 25, Deduct</i>	-323.82	
33 14 13 23-0172	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,021.66	180.06
		<i>For DR 25, Deduct</i>	-339.69	
33 14 13 23-0173	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,295.54	184.70
		<i>For DR 25, Deduct</i>	-355.57	
33 14 13 23-0174	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,574.07	191.67
		<i>For DR 25, Deduct</i>	-371.44	
33 14 13 23-0175	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,861.89	203.29
		<i>For DR 25, Deduct</i>	-387.32	
33 14 13 23-0176	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,149.70	214.91
		<i>For DR 25, Deduct</i>	-403.19	

33 14 13 23-0177 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0178 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	321.37	27.08
For DR 25, Deduct	-16.03	
33 14 13 23-0179 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	573.75	30.47
For DR 25, Deduct	-30.77	
33 14 13 23-0180 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	792.76	33.85
For DR 25, Deduct	-43.50	
33 14 13 23-0181 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,618.55	55.76
For DR 25, Deduct	-90.42	
33 14 13 23-0182 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,920.58	69.70
For DR 25, Deduct	-106.87	
33 14 13 23-0183 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,486.95	92.94
For DR 25, Deduct	-198.07	
33 14 13 23-0184 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,327.49	116.16
For DR 25, Deduct	-245.72	
33 14 13 23-0185 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,524.15	185.87
For DR 25, Deduct	-309.15	
33 14 13 23-0186 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,636.28	232.34
For DR 25, Deduct	-370.30	
33 14 13 23-0187 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,357.39	313.65
For DR 25, Deduct	-523.81	
33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride		
(PVC) <small>(33 14 13 23-0075)</small>		
33 14 13 23-0189 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	556.21	28.77
For DR 25, Deduct	-29.92	
33 14 13 23-0190 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	753.65	30.47
For DR 25, Deduct	-41.56	
33 14 13 23-0191 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	773.09	32.16
For DR 25, Deduct	-42.53	
33 14 13 23-0192 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,160.89	41.82
For DR 25, Deduct	-64.64	
33 14 13 23-0193 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,352.33	43.56
For DR 25, Deduct	-75.91	
33 14 13 23-0194 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,484.95	45.30
For DR 25, Deduct	-83.66	
33 14 13 23-0195 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,527.78	60.40
For DR 25, Deduct	-84.42	
33 14 13 23-0196 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,754.13	62.14
For DR 25, Deduct	-97.79	
33 14 13 23-0197 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,862.20	63.89
For DR 25, Deduct	-104.07	
33 14 13 23-0198 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,906.54	74.34
For DR 25, Deduct	-105.47	
33 14 13 23-0199 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,872.64	69.70
For DR 25, Deduct	-163.99	
33 14 13 23-0200 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,989.32	71.45
For DR 25, Deduct	-170.79	
33 14 13 23-0201 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,107.27	73.19
For DR 25, Deduct	-177.65	
33 14 13 23-0202 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,242.16	83.64
For DR 25, Deduct	-184.49	
33 14 13 23-0203 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,392.45	102.23
For DR 25, Deduct	-191.28	
33 14 13 23-0204 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,581.26	83.64
For DR 25, Deduct	-204.84	
33 14 13 23-0205 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,699.49	85.38
For DR 25, Deduct	-211.72	
33 14 13 23-0206 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,816.45	87.12
For DR 25, Deduct	-218.53	
33 14 13 23-0207 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,951.24	97.58
For DR 25, Deduct	-225.36	
33 14 13 23-0208 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,020.67	116.16
For DR 25, Deduct	-227.30	
33 14 13 23-0209 EA 16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,233.49	125.46
For DR 25, Deduct	-238.95	
33 14 13 23-0210 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,422.85	106.87
For DR 25, Deduct	-252.55	
33 14 13 23-0211 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,540.80	108.61
For DR 25, Deduct	-259.41	
33 14 13 23-0212 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,657.94	110.36
For DR 25, Deduct	-266.23	
33 14 13 23-0213 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,791.03	120.81
For DR 25, Deduct	-272.96	
33 14 13 23-0214 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,942.67	139.40
For DR 25, Deduct	-279.83	
33 14 13 23-0215 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,074.39	148.69
For DR 25, Deduct	-286.62	
33 14 13 23-0216 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,243.04	162.63
For DR 25, Deduct	-295.07	
33 14 13 23-0217 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,606.29	130.11
For DR 25, Deduct	-320.76	
33 14 13 23-0218 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,803.33	131.85
For DR 25, Deduct	-332.38	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0219 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,882.54	133.59
For DR 25, Deduct	-336.92	
33 14 13 23-0220 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,978.38	144.05
For DR 25, Deduct	-341.42	
33 14 13 23-0221 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,090.47	162.63
For DR 25, Deduct	-345.91	
33 14 13 23-0222 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,230.14	171.92
For DR 25, Deduct	-353.18	
33 14 13 23-0223 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,381.50	185.87
For DR 25, Deduct	-360.59	
33 14 13 23-0224 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,509.05	209.10
For DR 25, Deduct	-365.45	
33 14 13 23-0225 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,558.23	170.77
For DR 25, Deduct	-373.00	
33 14 13 23-0226 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,679.56	172.51
For DR 25, Deduct	-380.07	
33 14 13 23-0227 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,764.72	174.25
For DR 25, Deduct	-384.97	
33 14 13 23-0228 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,115.98	184.70
For DR 25, Deduct	-404.79	
33 14 13 23-0229 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,483.61	203.29
For DR 25, Deduct	-424.62	
33 14 13 23-0230 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,832.60	212.59
For DR 25, Deduct	-444.45	
33 14 13 23-0231 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,192.30	226.53
For DR 25, Deduct	-464.36	
33 14 13 23-0232 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,568.46	249.75
For DR 25, Deduct	-484.14	
33 14 13 23-0233 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,946.04	272.99
For DR 25, Deduct	-504.00	
33 14 13 23-0234 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13		
<small>23-0075)</small>		
33 14 13 23-0235 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	117.18	13.54
For DR 25, Deduct	-5.41	
33 14 13 23-0236 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	216.45	15.23
For DR 25, Deduct	-11.16	
33 14 13 23-0237 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	260.26	16.93
For DR 25, Deduct	-13.58	
33 14 13 23-0238 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	372.47	27.88
For DR 25, Deduct	-19.00	
33 14 13 23-0239 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	590.09	34.85
For DR 25, Deduct	-31.22	
33 14 13 23-0240 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,020.24	46.47
For DR 25, Deduct	-55.64	
33 14 13 23-0241 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,209.34	58.08
For DR 25, Deduct	-65.59	
33 14 13 23-0242 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,883.50	92.94
For DR 25, Deduct	-161.86	
33 14 13 23-0243 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,235.64	116.16
For DR 25, Deduct	-180.20	
33 14 13 23-0244 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,554.13	156.83
For DR 25, Deduct	-254.43	
33 14 13 23-0245 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235		
Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0246 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	144.62	13.54
For DR 25, Deduct	-7.05	
33 14 13 23-0247 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	195.86	15.23
For DR 25, Deduct	-9.92	
33 14 13 23-0248 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	283.71	16.93
For DR 25, Deduct	-14.99	
33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	390.75	27.88
For DR 25, Deduct	-20.10	
33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	626.65	46.47
For DR 25, Deduct	-32.02	
33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,646.26	55.76
For DR 25, Deduct	-92.08	
33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,227.01	69.70
For DR 25, Deduct	-125.26	
33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,745.78	92.94
For DR 25, Deduct	-153.59	
33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,281.76	116.16
For DR 25, Deduct	-182.97	
33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,457.90	156.83
For DR 25, Deduct	-248.66	
33 14 13 23-0256 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0257 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0256)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0258 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 2.65 0.90 <i>For >1,000, Deduct -0.13</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.06</i>		
33 14 13 23-0259 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 2.95 0.97 <i>For >1,000, Deduct -0.15</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.08</i>		
33 14 13 23-0260 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 3.47 1.06 <i>For >1,000, Deduct -0.17</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.12</i>		
33 14 13 23-0261 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 4.05 1.17 <i>For >1,000, Deduct -0.20</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.17</i>		
33 14 13 23-0262 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 5.34 1.31 <i>For >1,000, Deduct -0.27</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.31</i>		
33 14 13 23-0263 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 7.00 1.49 <i>For >1,000, Deduct -0.35</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.49</i>		
33 14 13 23-0264 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 8.45 1.59 <i>For >1,000, Deduct -0.42</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 0.67</i>		
33 14 13 23-0265 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 12.20 1.96 <i>For >1,000, Deduct -0.61</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 1.10</i>		
33 14 13 23-0266 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 22.16 2.49 <i>For >1,000, Deduct -1.11</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 2.39</i>		
33 14 13 23-0267 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 36.30 3.72 <i>For >1,000, Deduct -1.82</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 4.05</i>		
33 14 13 23-0268 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 54.42 4.97 <i>For >1,000, Deduct -2.72</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 6.30</i>		
33 14 13 23-0269 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe 75.90 6.69 <i>For >1,000, Deduct -3.80</i> <i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add 8.88</i>		
33 14 13 23-0270 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0271 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 27.53 10.83		
33 14 13 23-0272 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 34.85 13.54		
33 14 13 23-0273 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 43.99 16.93		
33 14 13 23-0274 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 70.05 18.73		
33 14 13 23-0275 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 75.46 20.99		
33 14 13 23-0276 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 89.86 23.81		
33 14 13 23-0277 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 97.73 25.49		
33 14 13 23-0278 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 138.55 31.30		
33 14 13 23-0279 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 203.38 39.76		
33 14 13 23-0280 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 328.24 52.20		
33 14 13 23-0281 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 411.84 69.84		
33 14 13 23-0282 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow 543.20 94.00		
33 14 13 23-0283 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0284 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 28.15 10.83		
33 14 13 23-0285 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 35.30 13.54		
33 14 13 23-0286 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 44.26 16.93		
33 14 13 23-0287 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 61.89 18.73		
33 14 13 23-0288 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 76.22 20.99		
33 14 13 23-0289 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 92.94 23.81		
33 14 13 23-0290 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 96.43 25.49		
33 14 13 23-0291 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 135.74 31.30		
33 14 13 23-0292 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 197.72 39.76		
33 14 13 23-0293 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 327.45 52.20		
33 14 13 23-0294 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 367.11 69.84		
33 14 13 23-0295 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC) 481.30 94.00		
33 14 13 23-0296 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0297 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 41.24 16.25		
33 14 13 23-0298 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 52.12 20.42		
33 14 13 23-0299 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 65.43 25.50		
33 14 13 23-0300 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 95.04 28.22		
33 14 13 23-0301 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 108.56 31.37		
33 14 13 23-0302 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 126.83 35.78		
33 14 13 23-0303 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 150.05 38.13		
33 14 13 23-0304 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 199.51 46.99		
33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 344.15 59.74		
33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 523.99 78.30		
33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 629.38 119.30		
33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC) 781.50 160.54		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0256)</small>		
33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	18.45	7.23
33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	24.93	9.71
33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	33.43	12.75
33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	48.81	14.11
33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	53.72	15.69
33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	61.10	17.83
33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	68.22	19.06
33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	95.65	23.45
33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	139.51	29.87
33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	245.72	39.15
33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	297.14	59.71
33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	376.58	80.27
33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings <small>(33 14 13 23)</small>		
33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0322)</small>		
33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	2.96	0.90
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.11	
33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	3.55	0.97
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	4.61	1.17
For >1,000, Deduct	-0.23	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	5.55	1.31
For >1,000, Deduct	-0.28	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.34	
33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	7.33	1.49
For >1,000, Deduct	-0.37	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.54	
33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	8.66	1.59
For >1,000, Deduct	-0.43	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.70	
33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	11.63	1.96
For >1,000, Deduct	-0.58	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.01	
33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe.....	17.99	2.49
For >1,000, Deduct	-0.90	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.77	
33 14 13 23-0332 90 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0322)</small>		
33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.75	10.83
33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	34.99	13.54
33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	48.73	18.73
33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.21	20.99
33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	67.12	23.81
33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	72.84	25.49
33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	96.90	31.30
33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	158.78	39.76
33 14 13 23-0341 45 Degree Elbows, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0322)</small>		
33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	27.70	10.83
33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	34.93	13.54
33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	48.76	18.73
33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	55.00	20.99
33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	66.53	23.81
33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	72.16	25.49
33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	95.52	31.30
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	154.39	39.76
33 14 13 23-0350 Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0322)</small>		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	41.48	16.25
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	52.30	20.42
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	72.83	28.22
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	82.06	31.37
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	101.01	35.78
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	112.05	38.13
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	139.75	46.99
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	242.36	59.74
33 14 13 23-0359 Couplings, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0322)</small>		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	18.56	7.23
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	25.02	9.71
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	36.28	14.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	41.01	15.69
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	48.48	17.83
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	53.60	19.06
33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	66.52	23.45
33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	101.64	29.87
33 14 13 23-0368 Crosses, Schedule 40 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0322)</small>		
33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	55.51	21.67
33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	69.66	27.19
33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	97.09	37.58
33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	109.41	41.87
33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	134.62	47.63
33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	149.32	50.87
33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	186.19	62.59
33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	322.60	79.62
33 14 13 23-0377 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings <small>(33 14 13 23)</small>		
33 14 13 23-0378 Schedule 80 Polyvinyl Chloride (PVC) Pipe <small>(33 14 13 23-0377)</small>		
33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.89	0.97
<i>For >1,000, Deduct</i>	-0.19	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.22	
33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.29	1.17
<i>For >1,000, Deduct</i>	-0.26	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.35	
33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	6.71	1.31
<i>For >1,000, Deduct</i>	-0.34	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.52	
33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	8.83	1.49
<i>For >1,000, Deduct</i>	-0.44	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.77	
33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	10.77	1.59
<i>For >1,000, Deduct</i>	-0.54	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.02	
33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	14.86	1.96
<i>For >1,000, Deduct</i>	-0.74	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.50	
33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	25.16	2.49
<i>For >1,000, Deduct</i>	-1.26	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.84	
33 14 13 23-0386 90 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0377)</small>		
33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	36.77	13.54
33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	48.73	18.73
33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	57.00	20.99
33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC)	70.91	23.81
33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	76.36	25.49
33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	97.74	31.30
33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow	154.76	39.76
33 14 13 23-0394 45 Degree Elbows, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0377)</small>		
33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	44.08	13.54
33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	55.78	18.73
33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	63.78	20.99
33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	83.62	23.81
33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	92.91	25.49
33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	131.01	31.30
33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow	152.53	39.76
33 14 13 23-0402 Tees Or Wyes, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0377)</small>		
33 14 13 23-0403 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	56.05	20.42
33 14 13 23-0404 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	84.20	28.22
33 14 13 23-0405 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	95.62	31.37
33 14 13 23-0406 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	108.19	35.78
33 14 13 23-0407 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	118.92	38.13
33 14 13 23-0408 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	144.70	46.99
33 14 13 23-0409 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	242.18	59.74
33 14 13 23-0410 Couplings, Schedule 80 Polyvinyl Chloride (PVC) <small>(33 14 13 23-0377)</small>		
33 14 13 23-0411 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	27.69	9.71
33 14 13 23-0412 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	40.87	14.11
33 14 13 23-0413 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	45.33	15.69
33 14 13 23-0414 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	59.58	17.83
33 14 13 23-0415 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	64.79	19.06
33 14 13 23-0416 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	80.13	23.45

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0417 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	120.64	29.87
33 14 13 23-0418 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0419 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross	74.63	27.19
33 14 13 23-0420 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	112.18	37.58
33 14 13 23-0421 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross	127.40	41.87
33 14 13 23-0422 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	144.15	47.63
33 14 13 23-0423 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross	158.44	50.87
33 14 13 23-0424 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross	192.76	62.59
33 14 13 23-0425 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross	322.36	79.62
33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	7.66	2.68
For SDR 19, Add	0.20	
For SDR 17, Add	0.50	
For SDR 15.5, Add	0.74	
For SDR 13.5, Add	1.15	
For SDR 11, Add	1.85	
33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.03	3.40
For SDR 26, Deduct	-0.41	
For SDR 19, Add	0.20	
For SDR 17, Add	0.50	
For SDR 15.5, Add	0.73	
For SDR 13.5, Add	1.14	
For SDR 11, Add	1.83	
33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	13.07	4.12
For SDR 26, Deduct	-0.89	
For SDR 19, Add	0.44	
For SDR 17, Add	1.08	
For SDR 15.5, Add	1.57	
For SDR 13.5, Add	2.46	
For SDR 11, Add	3.96	
33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	17.48	4.63
For SDR 26, Deduct	-1.51	
For SDR 19, Add	0.74	
For SDR 17, Add	1.83	
For SDR 15.5, Add	2.67	
For SDR 13.5, Add	4.17	
For SDR 11, Add	6.72	
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	23.06	5.14
For SDR 26, Deduct	-2.34	
For SDR 19, Add	1.15	
For SDR 17, Add	2.84	
For SDR 15.5, Add	4.16	
For SDR 13.5, Add	6.49	
For SDR 11, Add	10.44	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	29.84	57.63
For SDR 26, Deduct	-3.38	
For SDR 19, Add	1.66	
For SDR 17, Add	4.09	
For SDR 15.5, Add	5.99	
For SDR 13.5, Add	9.36	
For SDR 11, Add	15.06	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	34.51	6.48
For SDR 26, Deduct	-3.97	
For SDR 19, Add	1.95	
For SDR 17, Add	4.81	
For SDR 15.5, Add	7.04	
For SDR 13.5, Add	11.00	
For SDR 11, Add	17.70	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	42.69	7.20
For SDR 26, Deduct	-5.18	
For SDR 19, Add	2.55	
For SDR 17, Add	6.28	
For SDR 15.5, Add	9.20	
For SDR 13.5, Add	14.36	
For SDR 11, Add	23.12	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	53.08	8.64
For SDR 26, Deduct	-6.55	
For SDR 19, Add	3.22	
For SDR 17, Add	7.94	
For SDR 15.5, Add	11.63	
For SDR 13.5, Add	18.15	
For SDR 11, Add	29.22	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	93.61	10.29
For SDR 26, Deduct	-13.39	
For SDR 19, Add	6.57	
For SDR 17, Add	16.23	
For SDR 15.5, Add	23.76	
For SDR 13.5, Add	37.09	
For SDR 11, Add	59.70	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	88.29	12.35
For SDR 26, Deduct	-11.66	
For SDR 19, Add	5.72	
For SDR 17, Add	14.13	
For SDR 15.5, Add	20.70	
For SDR 13.5, Add	32.30	
For SDR 11, Add	51.99	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping^(33 14)		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	63.47	16.93
For SDR 26, Deduct	-2.33	
For SDR 19, Add	1.14	
For SDR 17, Add	2.82	
For SDR 15.5, Add	4.13	
For SDR 13.5, Add	6.45	
For SDR 11, Add	10.37	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	71.54	18.82
For SDR 26, Deduct	-2.77	
For SDR 19, Add	1.36	
For SDR 17, Add	3.36	
For SDR 15.5, Add	4.92	
For SDR 13.5, Add	7.68	
For SDR 11, Add	12.36	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	104.66	21.50
For SDR 26, Deduct	-7.37	
For SDR 19, Add	3.62	
For SDR 17, Add	8.93	
For SDR 15.5, Add	13.08	
For SDR 13.5, Add	20.42	
For SDR 11, Add	32.87	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	159.31	25.10
For SDR 26, Deduct	-15.41	
For SDR 19, Add	7.56	
For SDR 17, Add	18.68	
For SDR 15.5, Add	27.35	
For SDR 13.5, Add	42.69	
For SDR 11, Add	68.71	
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	240.60	33.52
For SDR 26, Deduct	-25.71	
For SDR 19, Add	12.63	
For SDR 17, Add	31.17	
For SDR 15.5, Add	45.65	
For SDR 13.5, Add	71.25	
For SDR 11, Add	114.68	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	355.84	50.16
For SDR 26, Deduct	-37.65	
For SDR 19, Add	18.49	
For SDR 17, Add	45.64	
For SDR 15.5, Add	66.84	
For SDR 13.5, Add	104.33	
For SDR 11, Add	167.93	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	445.60	66.94
For SDR 26, Deduct	-44.89	
For SDR 19, Add	22.04	
For SDR 17, Add	54.41	
For SDR 15.5, Add	79.68	
For SDR 13.5, Add	124.37	
For SDR 11, Add	200.19	
33 14 13 23-0447 EA 16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	594.09	100.32
For SDR 26, Deduct	-53.75	
For SDR 19, Add	26.39	
For SDR 17, Add	65.16	
For SDR 15.5, Add	95.42	
For SDR 13.5, Add	148.94	
For SDR 11, Add	239.73	
33 14 13 23-0448 EA 18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	737.62	112.85
For SDR 26, Deduct	-73.15	
For SDR 19, Add	35.92	
For SDR 17, Add	88.67	
For SDR 15.5, Add	129.85	
For SDR 13.5, Add	202.68	
For SDR 11, Add	326.23	
33 14 13 23-0449 EA 20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	988.29	128.08
For SDR 26, Deduct	-110.00	
For SDR 19, Add	54.01	
For SDR 17, Add	133.34	
For SDR 15.5, Add	195.28	
For SDR 13.5, Add	304.80	
For SDR 11, Add	490.59	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0450 EA 24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,252.54	150.54
For SDR 26, Deduct	-146.85	
For SDR 19, Add	72.10	
For SDR 17, Add	178.02	
For SDR 15.5, Add	260.69	
For SDR 13.5, Add	406.90	
For SDR 11, Add	654.94	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)		
33 14 13 23-0452 EA 3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	69.63	17.72
For SDR 26, Deduct	-3.04	
For SDR 19, Add	1.49	
For SDR 17, Add	3.69	
For SDR 15.5, Add	5.40	
For SDR 13.5, Add	8.43	
For SDR 11, Add	13.56	
33 14 13 23-0453 EA 4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	79.69	20.07
For SDR 26, Deduct	-3.58	
For SDR 19, Add	1.76	
For SDR 17, Add	4.34	
For SDR 15.5, Add	6.36	
For SDR 13.5, Add	9.92	
For SDR 11, Add	15.97	
33 14 13 23-0454 EA 6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	120.46	23.16
For SDR 26, Deduct	-9.36	
For SDR 19, Add	4.59	
For SDR 17, Add	11.34	
For SDR 15.5, Add	16.61	
For SDR 13.5, Add	25.93	
For SDR 11, Add	41.73	
33 14 13 23-0455 EA 8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	211.55	27.37
For SDR 26, Deduct	-23.74	
For SDR 19, Add	11.66	
For SDR 17, Add	28.78	
For SDR 15.5, Add	42.14	
For SDR 13.5, Add	65.78	
For SDR 11, Add	105.87	
33 14 13 23-0456 EA 10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	291.02	40.18
For SDR 26, Deduct	-31.28	
For SDR 19, Add	15.36	
For SDR 17, Add	37.91	
For SDR 15.5, Add	55.52	
For SDR 13.5, Add	86.66	
For SDR 11, Add	139.49	
33 14 13 23-0457 EA 12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	413.58	60.26
For SDR 26, Deduct	-42.71	
For SDR 19, Add	20.97	
For SDR 17, Add	51.77	
For SDR 15.5, Add	75.81	
For SDR 13.5, Add	118.34	
For SDR 11, Add	190.47	
33 14 13 23-0458 EA 14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	499.79	75.27
For SDR 26, Deduct	-50.24	
For SDR 19, Add	24.67	
For SDR 17, Add	60.91	
For SDR 15.5, Add	89.19	
For SDR 13.5, Add	139.22	
For SDR 11, Add	224.08	
33 14 13 23-0459 EA 16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	664.20	112.85
For SDR 26, Deduct	-59.66	
For SDR 19, Add	29.30	
For SDR 17, Add	72.33	
For SDR 15.5, Add	105.92	
For SDR 13.5, Add	165.32	
For SDR 11, Add	266.10	
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	846.60	131.46
For SDR 26, Deduct	-82.90	
For SDR 19, Add	40.70	
For SDR 17, Add	100.49	
For SDR 15.5, Add	147.17	
For SDR 13.5, Add	229.71	
For SDR 11, Add	369.73	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,168.31	155.28
For SDR 26, Deduct	-127.81	
For SDR 19, Add	62.75	
For SDR 17, Add	154.93	
For SDR 15.5, Add	226.89	
For SDR 13.5, Add	354.13	
For SDR 11, Add	570.00	
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping	1,506.47	188.23
For SDR 26, Deduct	-172.71	
For SDR 19, Add	84.80	
For SDR 17, Add	209.36	
For SDR 15.5, Add	306.60	
For SDR 13.5, Add	478.56	
For SDR 11, Add	770.27	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 26				Galvanized Steel Public Water Utility Distribution Piping <small>(33 14 13)</small>		
				See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
33 14 13 36				Steel Public Water Utility Distribution Piping <small>(33 14 13)</small>		
33 14 13 36-0001				Steel Piping <small>(33 14 13 36)</small>		
33 14 13 36-0002				Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0001)</small>		
				Note: ASTM A252 steel pipe.		
33 14 13 36-0003				Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0004	LF			8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	110.73	28.99
				For <100, Add	12.13	
				For >1,000, Deduct	-5.54	
33 14 13 36-0005	LF			8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	132.00	28.99
				For <100, Add	13.19	
				For >1,000, Deduct	-6.60	
33 14 13 36-0006	LF			10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	131.57	31.62
				For <100, Add	13.77	
				For >1,000, Deduct	-6.58	
33 14 13 36-0007	LF			10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	158.46	31.62
				For <100, Add	15.11	
				For >1,000, Deduct	-7.92	
33 14 13 36-0008	LF			12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	158.93	33.13
				For <100, Add	15.48	
				For >1,000, Deduct	-7.95	
33 14 13 36-0009	LF			12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	179.85	33.13
				For <100, Add	16.52	
				For >1,000, Deduct	-8.99	
33 14 13 36-0010	LF			14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	192.34	36.62
				For <100, Add	17.94	
				For >1,000, Deduct	-9.62	
33 14 13 36-0011	LF			14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	209.05	36.62
				For <100, Add	18.78	
				For >1,000, Deduct	-10.45	
33 14 13 36-0012	LF			16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	204.12	38.65
				For <100, Add	18.99	
				For >1,000, Deduct	-10.21	
33 14 13 36-0013	LF			16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	217.03	38.65
				For <100, Add	19.64	
				For >1,000, Deduct	-10.85	
33 14 13 36-0014	LF			18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	252.67	43.49
				For <100, Add	22.52	
				For >1,000, Deduct	-12.63	
33 14 13 36-0015	LF			20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	273.82	43.49
				For <100, Add	23.57	
				For >1,000, Deduct	-13.69	
33 14 13 36-0016				5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping <small>(33 14 13 36-0002)</small>		
33 14 13 36-0017	LF			12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	221.43	59.44
				For <100, Add	20.41	
				For >1,000, Deduct	-11.07	
33 14 13 36-0018	LF			14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	262.40	65.38
				For <100, Add	23.44	
				For >1,000, Deduct	-13.12	
33 14 13 36-0019	LF			16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	291.20	68.35
				For <100, Add	25.46	
				For >1,000, Deduct	-14.56	
33 14 13 36-0020	LF			18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	328.50	77.27
				For <100, Add	28.68	
				For >1,000, Deduct	-16.43	
33 14 13 36-0021	LF			18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	342.84	77.27
				For <100, Add	29.40	
				For >1,000, Deduct	-17.14	
33 14 13 36-0022	LF			20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	356.10	77.27
				For <100, Add	30.06	
				For >1,000, Deduct	-17.81	
33 14 13 36-0023	LF			20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	371.40	77.27
				For <100, Add	30.83	
				For >1,000, Deduct	-18.57	
33 14 13 36-0024	LF			24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	430.39	89.15
				For <100, Add	35.53	
				For >1,000, Deduct	-21.52	
33 14 13 36-0025	LF			24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	477.71	89.15
				For <100, Add	37.90	
				For >1,000, Deduct	-23.89	
33 14 13 36-0026	LF			24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	593.86	89.15
				For <100, Add	43.70	
				For >1,000, Deduct	-29.69	
33 14 13 36-0027	LF			30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	534.38	104.01
				For <100, Add	43.06	
				For >1,000, Deduct	-26.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	553.74	104.01
For <100, Add	44.03	
For >1,000, Deduct	-27.69	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	736.33	104.01
For <100, Add	53.16	
For >1,000, Deduct	-36.82	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	634.76	104.01
For <100, Add	48.08	
For >1,000, Deduct	-31.74	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	744.50	124.81
For <100, Add	56.84	
For >1,000, Deduct	-37.23	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	886.11	124.81
For <100, Add	63.92	
For >1,000, Deduct	-44.31	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	850.74	124.81
For <100, Add	62.15	
For >1,000, Deduct	-42.54	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,298.45	139.67
For <100, Add	86.71	
For >1,000, Deduct	-64.92	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	793.45	139.67
For <100, Add	61.46	
For >1,000, Deduct	-39.67	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,488.69	157.50
For <100, Add	98.95	
For >1,000, Deduct	-74.43	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	870.88	157.50
For <100, Add	68.06	
For >1,000, Deduct	-43.54	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,561.04	178.30
For <100, Add	106.07	
For >1,000, Deduct	-78.05	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,722.36	178.30
For <100, Add	114.14	
For >1,000, Deduct	-86.12	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,926.76	208.02
For <100, Add	129.03	
For >1,000, Deduct	-96.34	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,353.17	208.02
For <100, Add	100.35	
For >1,000, Deduct	-67.66	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,506.09	169.88
For <100, Add	126.27	
For >1,000, Deduct	-75.30	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,801.46	169.88
For <100, Add	191.04	
For >1,000, Deduct	-140.07	
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	123.22	33.71
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	190.63	64.84
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	253.78	85.59
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	400.33	129.67
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	519.94	163.39
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	629.60	162.32
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	750.08	203.44
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	807.01	203.44
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	853.56	232.66
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	933.93	248.89
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,018.43	281.35
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,273.43	297.58
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,518.14	324.64
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,776.17	365.22
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,046.21	411.21
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,380.67	473.43
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,644.71	541.07
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	3,059.48	676.33
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,534.35	822.42
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	4,214.44	973.91
33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)		
33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe.....	7.52	2.26
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe.....	9.20	2.54
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe.....	12.06	2.82
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe.....	14.91	3.38
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe.....	18.26	4.51
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe.....	26.01	5.63
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe.....	33.24	6.77
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe.....	41.23	7.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	55.54	9.36
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	73.10	11.83
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	115.54	14.77
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	148.66	17.81
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	250.76	19.94
33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)		
33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	7.93	2.26
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	10.66	2.54
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	13.51	2.82
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	15.81	3.38
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	19.59	4.51
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	27.80	5.63
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	38.21	6.77
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	48.66	7.44
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	64.28	9.36
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	86.36	11.83
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	142.98	14.77
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	198.00	17.81
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	341.81	19.94
33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)		
33 14 13 43-0001 Pipe Coatings (33 14 13 43)		
33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)		
Note: Applied at fabrication shop.		
33 14 13 43-0003 LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.22	
33 14 13 43-0004 LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.83	
33 14 13 43-0005 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.52	
33 14 13 43-0006 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.00	
33 14 13 43-0007 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.85	
33 14 13 43-0008 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.20	
33 14 13 43-0009 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.75	
33 14 13 43-0010 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.03	
33 14 13 43-0011 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	11.86	
33 14 13 43-0012 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	18.73	
33 14 13 43-0013 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	40.38	
33 14 13 43-0014 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	46.15	
33 14 13 43-0015 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	51.92	
33 14 13 43-0016 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	57.69	
33 14 13 43-0017 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	63.46	
33 14 13 43-0018 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	69.20	
33 14 13 43-0019 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	75.00	
33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)		
Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0021 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	11.32	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0022 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	13.93	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0023 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	17.42	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0024 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	19.40	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0025 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	21.91	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0026 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	25.64	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0027 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	29.13	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0028 LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh	32.87	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0029 LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh	36.53	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0030 LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh	43.82	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0031 LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh	54.78	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0032 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh	65.73	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0033 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh	25.10	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0034 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh	28.68	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0035 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh	32.27	
Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0036 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh	35.85	
Note: Reinforcing applied at fabrication shop.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0037	LF		66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF		72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF		78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0040			Pipe Lining <small>(33 14 13 43)</small>		
33 14 13 43-0041			Cement Pipe Lining <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0042	LF		4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	14.40 1.51	
33 14 13 43-0043	LF		6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	17.85 1.86	
33 14 13 43-0044	LF		8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	21.89 2.32	
33 14 13 43-0045	LF		10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	28.21 2.90	
33 14 13 43-0046	LF		12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	34.59 3.49	
33 14 13 43-0047	LF		14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	43.55 4.09	
33 14 13 43-0048	LF		16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	55.31 4.64	
33 14 13 43-0049	LF		18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	65.57 4.45	
33 14 13 43-0050	LF		20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	78.33 4.95	
33 14 13 43-0051	LF		24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	94.84 5.93	
33 14 13 43-0052	LF		30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	114.71 7.42	
33 14 13 43-0053	LF		36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	137.99 8.90	
33 14 13 43-0054	LF		42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	161.02 7.64	
33 14 13 43-0055	LF		48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	183.96 8.73	
33 14 13 43-0056	LF		54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	206.99 9.82	
33 14 13 43-0057	LF		60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	230.01 10.91	
33 14 13 43-0058	LF		66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	252.96 6.40	
33 14 13 43-0059	LF		72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	275.98 6.98	
33 14 13 43-0060	LF		78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	299.01 7.57	
33 14 13 43-0061			Cement Fitting Lining <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0062	EA		4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	14.40 1.51	
33 14 13 43-0063	EA		6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	17.85 1.86	
33 14 13 43-0064	EA		8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	27.93 3.02	
33 14 13 43-0065	EA		10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	45.48 4.64	
33 14 13 43-0066	EA		12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	69.16 6.98	
33 14 13 43-0067	EA		14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	100.93 9.40	
33 14 13 43-0068	EA		16" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	145.97 12.07	
33 14 13 43-0069	EA		18" Outside Diameter, 5/16" Thick Cement Fittings Lining..... <i>For 1/2" Thick, Add</i>	196.71 13.35	
33 14 13 43-0070	EA		20" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	260.97 16.48	
33 14 13 43-0071	EA		24" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	379.39 23.74	
33 14 13 43-0072			8 Mil Polyethylene Encasement Tubing <small>(33 14 13 43)</small> Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0073	LF		3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.30	
33 14 13 43-0074	LF		10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.14	
33 14 13 43-0075	LF		14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.64	
33 14 13 43-0076	LF		18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.35	
33 14 13 43-0077	LF		24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.59	
33 14 13 43-0078	LF		30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.91	



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Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0079 LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.54	
33 14 13 43-0080 LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	8.97	
33 14 13 43-0081 LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.66	
33 14 13 43-0082 LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	11.70	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters <small>(33 14 13)</small>		
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles <small>(33 14 13 53)</small>		
Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002 EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	262.40	
33 14 13 53-0003 EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	363.58	
33 14 13 53-0004 EA 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	376.12	
33 14 13 53-0005 EA 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	312.31	
33 14 13 53-0006 EA 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	390.59	
33 14 13 53-0007 EA 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	326.68	
33 14 13 53-0008 EA 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	409.24	
33 14 13 53-0009 EA 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	366.77	
33 14 13 53-0010 EA 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	431.16	
33 14 13 53-0011 EA 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	382.78	
33 14 13 53-0012 EA 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	441.99	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles <small>(33 14 13 53)</small>		
Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014 EA 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	223.17	
33 14 13 53-0015 EA 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	223.32	
33 14 13 53-0016 EA 2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	237.63	
33 14 13 53-0017 EA 2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	226.76	
33 14 13 53-0018 EA 3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	242.55	
33 14 13 53-0019 EA 3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	267.49	
33 14 13 53-0020 EA 3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	284.41	
33 14 13 53-0021 EA 4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	260.72	
33 14 13 53-0022 EA 4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	285.87	
33 14 13 53-0023 EA 4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	300.48	
33 14 13 53-0024 EA 5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	275.16	
33 14 13 53-0025 EA 5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	301.07	
33 14 13 53-0026 EA 5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	315.61	
33 14 13 53-0027 EA 6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	290.07	
33 14 13 53-0028 EA 6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	315.25	
33 14 13 53-0029 EA 6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	329.63	
33 14 13 53-0030 EA 6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	472.12	
33 14 13 53-0031 EA 6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	484.66	
33 14 13 53-0032 EA 8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	313.42	
33 14 13 53-0033 EA 8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	343.62	
33 14 13 53-0034 EA 8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	357.04	
33 14 13 53-0035 EA 8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	556.50	
33 14 13 53-0036 EA 10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	349.23	
33 14 13 53-0037 EA 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	385.20	
33 14 13 53-0038 EA 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	619.21	
33 14 13 53-0039 EA 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	378.89	
33 14 13 53-0040 EA 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	416.87	
33 14 13 53-0041 EA 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	432.01	
33 14 13 53-0042 EA 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	688.78	
33 14 13 53-0043 EA 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	438.95	
33 14 13 53-0044 EA 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	468.97	
33 14 13 53-0045 EA 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	503.93	
33 14 13 53-0046 EA 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	840.48	
33 14 13 53-0047 EA 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	451.50	
33 14 13 53-0048 EA 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	511.20	
33 14 13 53-0049 EA 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	532.44	
33 14 13 53-0050 EA 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	902.06	
33 14 13 53-0051 EA 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	471.65	
33 14 13 53-0052 EA 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	533.53	
33 14 13 53-0053 EA 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	555.29	
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	938.55	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	520.02	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	598.72	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	589.41	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	651.36	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	615.31	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	692.66	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0061	Double Bale Bronze Service Saddles (33 14 13 53)	
33 14 13 53-0062	EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	304.20
33 14 13 53-0063	EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	331.87
33 14 13 53-0064	EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	345.45
33 14 13 53-0065	EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	373.36
33 14 13 53-0066	EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	383.49
33 14 13 53-0067	EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	403.02
33 14 13 53-0068	EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	373.69
33 14 13 53-0069	EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	397.05
33 14 13 53-0070	EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	468.31
33 14 13 53-0071	EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	505.45
33 14 13 53-0072	EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	691.89
33 14 13 53-0073	EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	779.14
33 14 13 53-0074	EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	802.46
33 14 13 53-0075	EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	893.34

33 14 13 53-0076 **Stainless Steel Double Straps, Bronze Body Service Saddle** (33 14 13 53)

Note: Taps are compression or NPT.

33 14 13 53-0077	EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	318.58
33 14 13 53-0078	EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	350.02
33 14 13 53-0079	EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	362.43
33 14 13 53-0080	EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	392.77
33 14 13 53-0081	EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	404.49
33 14 13 53-0082	EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	425.15
33 14 13 53-0083	EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	453.74
33 14 13 53-0084	EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	485.00
33 14 13 53-0085	EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	487.56
33 14 13 53-0086	EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	527.17
33 14 13 53-0087	EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	739.58
33 14 13 53-0088	EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	846.58
33 14 13 53-0089	EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	859.04
33 14 13 53-0090	EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	934.41
33 14 13 53-0091	EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,627.90
33 14 13 53-0092	EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,627.90
33 14 13 53-0093	EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,693.43
33 14 13 53-0094	EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,693.43
33 14 13 53-0095	EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,816.91
33 14 13 53-0096	EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,816.91

33 14 13 53-0097 **Ductile Iron Mechanical Joint Tapping Sleeve** (33 14 13 53)

33 14 13 53-0098	EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,393.65
33 14 13 53-0099	EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,684.19
33 14 13 53-0100	EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,010.81
33 14 13 53-0101	EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,125.18
33 14 13 53-0102	EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,194.89
33 14 13 53-0103	EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,353.94
33 14 13 53-0104	EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,423.59
33 14 13 53-0105	EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,383.02
33 14 13 53-0106	EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,541.46
33 14 13 53-0107	EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,923.93
33 14 13 53-0108	EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,022.87
33 14 13 53-0109	EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,662.06
33 14 13 53-0110	EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,840.76
33 14 13 53-0111	EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,922.49
33 14 13 53-0112	EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,959.03
33 14 13 53-0113	EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,213.89
33 14 13 53-0114	EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,206.45
33 14 13 53-0115	EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,231.54
33 14 13 53-0116	EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,430.94
33 14 13 53-0117	EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,479.85
33 14 13 53-0118	EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,533.45
33 14 13 53-0119	EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,477.07
33 14 13 53-0120	EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,903.27
33 14 13 53-0121	EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,995.58
33 14 13 53-0122	EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,442.69
33 14 13 53-0123	EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,575.44
33 14 13 53-0124	EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,969.35
33 14 13 53-0125	EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,387.36
33 14 13 53-0126	EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,052.06
33 14 13 53-0127	EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,224.13
33 14 13 53-0128	EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,292.84
33 14 13 53-0129	EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,625.24
33 14 13 53-0130	EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,952.77
33 14 13 53-0131	EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,210.43
33 14 13 53-0132	EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,329.02
33 14 13 53-0133	EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,487.36
33 14 13 53-0134	EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,533.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0135 EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	15,896.49	
33 14 13 53-0136 EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,103.15	
33 14 13 53-0137 EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,153.33	
33 14 13 53-0138 EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,594.70	
33 14 13 53-0139 EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,807.00	
33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)		
33 14 13 53-0141 EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,147.81	
33 14 13 53-0142 EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,224.08	
33 14 13 53-0143 EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,335.85	
33 14 13 53-0144 EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,378.67	
33 14 13 53-0145 EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,435.50	
33 14 13 53-0146 EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,642.31	
33 14 13 53-0147 EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,507.17	
33 14 13 53-0148 EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,562.57	
33 14 13 53-0149 EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,744.61	
33 14 13 53-0150 EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,386.03	
33 14 13 53-0151 EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,697.94	
33 14 13 53-0152 EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,778.16	
33 14 13 53-0153 EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,957.34	
33 14 13 53-0154 EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,532.18	
33 14 13 53-0155 EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,756.27	
33 14 13 53-0156 EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,219.79	
33 14 13 53-0157 EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,286.54	
33 14 13 53-0158 EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,668.46	
33 14 13 53-0159 EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,141.43	
33 14 13 53-0160 EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,449.79	
33 14 13 53-0161 EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,631.31	
33 14 13 53-0162 EA 16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,700.14	
33 14 13 53-0163 EA 16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,953.74	
33 14 13 53-0164 EA 16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,629.26	
33 14 13 53-0165 EA 16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,790.62	
33 14 13 53-0166 EA 18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,798.98	
33 14 13 53-0167 EA 18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,921.89	
33 14 13 53-0168 EA 18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,091.74	
33 14 13 53-0169 EA 18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,886.25	
33 14 13 53-0170 EA 18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,047.42	
33 14 13 53-0171 EA 20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,370.14	
33 14 13 53-0172 EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,438.83	
33 14 13 53-0173 EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,817.23	
33 14 13 53-0174 EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,455.55	
33 14 13 53-0175 EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,727.70	
33 14 13 53-0176 EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,641.93	
33 14 13 53-0177 EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,789.81	
33 14 13 53-0178 EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,988.71	
33 14 13 53-0179 EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,893.77	
33 14 13 53-0180 EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,061.72	
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)		
33 14 13 53-0182 EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,320.62	
33 14 13 53-0183 EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,442.34	
33 14 13 53-0184 EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,526.04	
33 14 13 53-0185 EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,561.24	
33 14 13 53-0186 EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,657.30	
33 14 13 53-0187 EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,939.84	
33 14 13 53-0188 EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,789.82	
33 14 13 53-0189 EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,896.10	
33 14 13 53-0190 EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,149.56	
33 14 13 53-0191 EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,880.79	
33 14 13 53-0192 EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,044.93	
33 14 13 53-0193 EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,189.00	
33 14 13 53-0194 EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,523.13	
33 14 13 53-0195 EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,957.78	
33 14 13 53-0196 EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,290.60	
33 14 13 53-0197 EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,334.12	
33 14 13 53-0198 EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,510.33	
33 14 13 53-0199 EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,886.28	
33 14 13 53-0200 EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,321.34	
33 14 13 53-0201 EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,552.52	
33 14 13 53-0202 EA 16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,838.99	
33 14 13 53-0203 EA 16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,079.06	
33 14 13 53-0204 EA 16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,262.55	
33 14 13 53-0205 EA 16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,730.17	
33 14 13 53-0206 EA 16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,048.11	
33 14 13 53-0207 EA 18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,134.20	
33 14 13 53-0208 EA 18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,491.92	
33 14 13 53-0209 EA 18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,683.30	
33 14 13 53-0210 EA 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,094.50	
33 14 13 53-0211 EA 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,637.80	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0212 EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,389.94	
33 14 13 53-0213 EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,746.73	
33 14 13 53-0214 EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,902.64	
33 14 13 53-0215 EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,665.91	
33 14 13 53-0216 EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,091.76	
33 14 13 53-0217 EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,007.51	
33 14 13 53-0218 EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,060.19	
33 14 13 53-0219 EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,246.70	
33 14 13 53-0220 EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,157.37	
33 14 13 53-0221 EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,644.44	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0223 EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	350.61	75.42
33 14 13 53-0224 EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	439.58	95.11
33 14 13 53-0225 EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	580.84	131.17
33 14 13 53-0226 EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	745.41	154.13
33 14 13 53-0227 EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,138.97	173.82
33 14 13 53-0228 EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,273.60	196.77
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)		
33 14 13 53-0230 EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	495.57	75.42
33 14 13 53-0231 EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	588.73	95.11
33 14 13 53-0232 EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	788.02	131.17
33 14 13 53-0233 EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	961.03	154.13
33 14 13 53-0234 EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,166.63	173.82
33 14 13 53-0235 EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,356.78	196.77
33 14 13 53-0236 EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,603.94	216.45
33 14 13 53-0237 EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,890.25	236.12
33 14 13 53-0238 EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,223.47	259.73
33 14 13 53-0239 EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,617.69	285.71
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)		
33 14 13 53-0241 EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	449.27	95.11
33 14 13 53-0242 EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	604.77	131.17
33 14 13 53-0243 EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	673.80	154.13
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	959.94	173.82
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,211.19	196.77
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,356.50	216.45
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,586.03	236.12
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,777.45	259.73
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,123.83	285.71
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,544.45	314.30
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,155.83	345.66
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	6,918.15	380.29
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	167.08	52.47
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	204.96	62.31
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	252.94	75.42
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	317.82	95.11
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	426.02	131.17
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	515.16	154.13
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	634.86	173.82
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	739.40	196.77
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,011.50	216.45
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,246.03	236.12
33 14 19 Valves and Hydrants for Water Utility Service (33 14)		
Note: Flanged valves excludes bolt and gasket set. See CSI section 23 21 13 23-0669 for bolt and gasket sets.		
33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0002 Angle Valves (33 14 19 00-0001)		
Note: For connecting meters to water service.		
33 14 19 00-0003 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0002)		
Note: Nibco T-335Y		
33 14 19 00-0004 EA 1/2" Threaded, Class 150, Bronze Angle Valve	105.99	22.54
33 14 19 00-0005 EA 3/4" Threaded, Class 150, Bronze Angle Valve	142.92	30.28
33 14 19 00-0006 EA 1" Threaded, Class 150, Bronze Angle Valve	190.42	37.32
33 14 19 00-0007 EA 1-1/4" Threaded, Class 150, Bronze Angle Valve	244.79	46.90
33 14 19 00-0008 EA 1-1/2" Threaded, Class 150, Bronze Angle Valve	303.45	54.22
33 14 19 00-0009 EA 2" Threaded, Class 150, Bronze Angle Valve	444.25	63.38
33 14 19 00-0010 EA 2-1/2" Threaded, Class 150, Bronze Angle Valve	703.43	86.49
33 14 19 00-0011 EA 3" Threaded, Class 150, Bronze Angle Valve	1,052.01	99.85



Utilities	33	CS
Water Utilities	33 10	
Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0012 Butterfly Valves <small>(33 14 19 00-0001)</small>		
33 14 19 00-0013 Lug Type Flanged, Cast Iron Disc, Butterfly Valves <small>(33 14 19 00-0012)</small>		
Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0014 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,386.77	239.44
33 14 19 00-0015 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,655.76	239.44
33 14 19 00-0016 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,575.58	370.50
33 14 19 00-0017 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	2,844.57	370.50
33 14 19 00-0018 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	2,927.40	415.01
33 14 19 00-0019 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	3,196.39	415.01
33 14 19 00-0020 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	3,316.20	530.29
33 14 19 00-0021 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	3,585.19	530.29
33 14 19 00-0022 EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	4,153.07	645.57
33 14 19 00-0023 EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	4,153.07	645.57
33 14 19 00-0024 EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8).....	4,750.96	782.49
33 14 19 00-0025 EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8).....	5,019.94	782.49
33 14 19 00-0026 EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12).....	6,421.16	1,040.46
33 14 19 00-0027 EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12).....	7,129.53	1,040.46
33 14 19 00-0028 EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16).....	7,459.57	1,144.51
33 14 19 00-0029 EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20).....	8,329.90	1,144.51
33 14 19 00-0030 EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	9,326.72	1,269.37
33 14 19 00-0031 EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	10,240.70	1,269.37
33 14 19 00-0032 EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24).....	10,556.37	1,430.64
33 14 19 00-0033 EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24).....	11,470.35	1,430.64
33 14 19 00-0034 Lug Type Flanged, Ductile Iron Disc, Butterfly Valves <small>(33 14 19 00-0012)</small>		
Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0035 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20).....	17,460.70	1,755.78
33 14 19 00-0036 EA 24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10).....	27,262.47	1,755.78
33 14 19 00-0037 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20).....	17,398.74	1,755.78
33 14 19 00-0038 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	37,102.94	2,809.73
33 14 19 00-0039 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24).....	43,726.60	3,746.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0040 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	55,154.38	5,619.46
33 14 19 00-0041 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	75,022.62	7,024.32
33 14 19 00-0042 EA 54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24)	119,468.49	8,429.19
33 14 19 00-0043 EA 60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36)	149,851.63	10,115.03
33 14 19 00-0044 EA 72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW, 72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36)	215,463.78	12,138.03
33 14 19 00-0045 LF 3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel	22.53	
33 14 19 00-0046 EA 316 Stainless Steel Closing Link For Use With Dezurik Chainwheel	9.86	
Note: One required per valve.		
33 14 19 00-0047	Check Valves (33 14 19 00-0001)	
33 14 19 00-0048	Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0047)	
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0049 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve	904.25	188.03
33 14 19 00-0050 EA 3" Flanged, Swing Type Gravity Operated Check Valve	944.38	220.45
33 14 19 00-0051 EA 4" Flanged, Swing Type Gravity Operated Check Valve	1,378.19	278.80
33 14 19 00-0052 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve	1,815.46	419.50
33 14 19 00-0053 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve	1,903.01	468.50
33 14 19 00-0054 EA 6" Flanged, Swing Type Gravity Operated Check Valve	1,825.87	466.83
33 14 19 00-0055 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,342.95	530.65
33 14 19 00-0056 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,465.80	596.51
33 14 19 00-0057 EA 8" Flanged, Swing Type Gravity Operated Check Valve	2,556.33	596.51
33 14 19 00-0058 EA 10" Flanged, Swing Type Gravity Operated Check Valve	4,164.95	726.18
33 14 19 00-0059 EA 12" Flanged, Swing Type Gravity Operated Check Valve	6,187.99	544.64
33 14 19 00-0060 EA 14" Flanged, Swing Type Gravity Operated Check Valve	8,512.18	1,040.46
33 14 19 00-0061 EA 16" Flanged, Swing Type Gravity Operated Check Valve	11,204.69	1,144.51
33 14 19 00-0062 EA 18" Flanged, Swing Type Gravity Operated Check Valve	16,063.15	1,269.37
33 14 19 00-0063 EA 20" Flanged, Swing Type Gravity Operated Check Valve	18,678.56	1,430.64
33 14 19 00-0064	Combination Air Release Valves (33 14 19 00-0001)	
33 14 19 00-0065 EA 1" Combination Air Release Valve	451.82	27.23
33 14 19 00-0066 EA 2" Combination Air Release Valve	732.00	46.68
33 14 19 00-0067	Corporation Stop And Curb Valve (33 14 19 00-0001)	
Note: AWWA C800		
33 14 19 00-0068	Ball Corporation Valves (33 14 19 00-0067)	
Note: Mueller B-25000.		
33 14 19 00-0069 EA 3/4" Ball Corporation Valve (Mueller B-25000)	89.71	27.23
33 14 19 00-0070 EA 1" Ball Corporation Valve (Mueller B-25000)	112.30	33.71
33 14 19 00-0071 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	194.15	49.28
33 14 19 00-0072 EA 2" Ball Corporation Valve (Mueller B-25000)	282.71	58.35
33 14 19 00-0073	Gate Valve, AWWA C500 And C509 (33 14 19 00-0001)	
33 14 19 00-0074	Gate Valve, Flanged (33 14 19 00-0073)	
Note: Mueller A-2380-6.		
33 14 19 00-0075 EA 2" Gate Valve, Flanged	593.28	172.86
33 14 19 00-0076 EA 2-1/2" Gate Valve, Flanged	686.11	188.03
33 14 19 00-0077 EA 3" Gate Valve, Flanged	810.33	220.45
33 14 19 00-0078 EA 4" Gate Valve, Flanged	1,149.62	276.21
33 14 19 00-0079 EA 6" Gate Valve, Flanged	1,383.98	466.83
33 14 19 00-0080 EA 8" Gate Valve, Flanged	1,988.56	596.51
33 14 19 00-0081 EA 10" Gate Valve, Flanged	2,890.23	726.18
33 14 19 00-0082 EA 12" Gate Valve, Flanged	3,482.88	544.64
33 14 19 00-0083 EA 14" Gate Valve, Flanged	7,017.11	1,040.46
33 14 19 00-0084 EA 16" Gate Valve, Flanged	9,069.61	1,144.51
33 14 19 00-0085 EA 18" Gate Valve, Flanged	14,090.37	1,269.37
33 14 19 00-0086 EA 20" Gate Valve, Flanged	16,805.44	1,430.64
33 14 19 00-0087	Resilient Wedge Gate Valve, Flanged (33 14 19 00-0073)	
Note: Mueller A-2380-6.		
33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged	571.95	172.86
33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged	660.62	188.03
33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged	780.08	220.45
33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged	1,115.81	276.21
33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged	1,338.78	466.83
33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged	1,917.95	596.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged.....	2,778.02	726.18
33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged.....	3,347.40	544.64
33 14 19 00-0096 Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2380-20.		
33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint.....	706.50	138.10
33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint.....	787.89	173.11
33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint.....	982.23	209.43
33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint.....	1,196.83	276.21
33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint.....	1,482.54	324.19
33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint.....	2,075.78	389.02
33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint.....	2,924.47	453.86
33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint.....	3,638.37	544.64
33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint.....	7,415.17	637.28
33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint.....	9,504.06	715.31
33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint.....	14,868.83	793.36
33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint.....	17,645.07	894.15
33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2360-20.		
33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....	682.14	138.10
33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....	950.34	209.43
33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,160.35	276.21
33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,435.33	324.19
33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....	2,002.34	389.02
33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....	2,810.32	453.86
33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....	3,494.06	544.64
33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0073)		
Note: Mueller A-2361.		
33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	6,889.16	1,040.46
33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	7,493.88	1,144.51
33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	11,509.54	1,269.37
33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	13,708.58	1,430.64
33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	19,377.13	1,755.78
33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0073)		
Note: NIBCO T-113.		
33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded.....	65.43	22.68
33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded.....	67.59	22.68
33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded.....	67.55	22.68
33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded.....	87.57	30.63
33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded.....	107.68	37.04
33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded.....	144.84	46.90
33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded.....	167.93	54.22
33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded.....	203.01	63.38
33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded.....	374.73	86.49
33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded.....	447.47	99.20
33 14 19 00-0134 Globe Valve, AWWA (33 14 19 00-0001)		
33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0134)		
Note: NIBCO T-235.		
33 14 19 00-0136 EA 1/8" Globe Valve, Threaded.....	89.76	22.68
33 14 19 00-0137 EA 1/4" Globe Valve, Threaded.....	85.41	22.68
33 14 19 00-0138 EA 3/8" Globe Valve, Threaded.....	87.57	22.68
33 14 19 00-0139 EA 1/2" Globe Valve, Threaded.....	89.76	22.68
33 14 19 00-0140 EA 3/4" Globe Valve, Threaded.....	121.81	30.63
33 14 19 00-0141 EA 1" Globe Valve, Threaded.....	168.28	37.04
33 14 19 00-0142 EA 1-1/4" Globe Valve, Threaded.....	242.77	46.90
33 14 19 00-0143 EA 1-1/2" Globe Valve, Threaded.....	289.00	54.22
33 14 19 00-0144 EA 2" Globe Valve, Threaded.....	397.79	63.38
33 14 19 00-0145 EA 2-1/2" Globe Valve, Threaded.....	716.85	86.49
33 14 19 00-0146 EA 3" Globe Valve, Threaded.....	973.14	99.72
33 14 19 00-0147 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0001)		
33 14 19 00-0148 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0147)		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0149 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	796.62	172.86
33 14 19 00-0150 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,025.19	220.45
33 14 19 00-0151 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,357.16	276.21
33 14 19 00-0152 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	1,701.12	466.83
33 14 19 00-0153 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	2,395.30	596.51
33 14 19 00-0154 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	3,384.51	726.18
33 14 19 00-0155 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,874.69	544.64

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0156 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	8,448.72	1,040.46
33 14 19 00-0157 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	10,585.57	1,144.51
33 14 19 00-0158 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	16,778.41	1,269.37
33 14 19 00-0159 Accessories For Valves (33 14 19)		
33 14 19 00-0160 EA 1' Valve Extension Stem.....	115.65	
For Each Additional LF, Add	7.94	
33 14 19 00-0161 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,407.97	129.67
Note: Excludes valve.		
33 14 19 00-0162 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,594.30	142.64
Note: Excludes valve.		
33 14 19 00-0163 EA Adjust Water Valve Box To Grade.....	129.67	
33 14 19 00-0164 Utility Box (33 14 19)		
Note: Christy Concrete Products.		
33 14 19 00-0165 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0164)		
33 14 19 00-0166 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	108.11	64.06
33 14 19 00-0167 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	87.26	7.12
33 14 19 00-0168 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box.....	39.93	7.12
33 14 19 00-0169 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	183.49	7.12
33 14 19 00-0170 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box.....	60.19	14.24
33 14 19 00-0171 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box.....	81.10	14.24
33 14 19 00-0172 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0164)		
33 14 19 00-0173 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	134.49	85.42
33 14 19 00-0174 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	102.39	8.54
33 14 19 00-0175 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box.....	44.86	8.54
33 14 19 00-0176 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	192.19	7.12
33 14 19 00-0177 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	65.94	14.24
33 14 19 00-0178 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box.....	90.30	21.36
33 14 19 00-0179 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	119.00	39.15
33 14 19 00-0180 B12 Utility Box, 12" x 20" (33 14 19 00-0164)		
33 14 19 00-0181 EA 12" x 20" Precast Concrete Utility Box.....	147.26	92.53
33 14 19 00-0182 EA Cast Iron Lid For 12" x 20" Utility Box.....	180.29	10.68
33 14 19 00-0183 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	62.58	14.24
33 14 19 00-0184 EA Steel Checkered Plate Cover For 12" x 20" Utility Box.....	262.54	14.24
33 14 19 00-0185 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box.....	154.11	49.83
33 14 19 00-0186 B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0164)		
33 14 19 00-0187 EA 12" x 22-1/4" Precast Concrete Utility Box.....	170.23	108.19
33 14 19 00-0188 EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	205.59	14.24
33 14 19 00-0189 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	74.44	14.24
33 14 19 00-0190 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	263.95	14.24
33 14 19 00-0191 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	108.17	24.21
33 14 19 00-0192 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	156.08	49.83
33 14 19 00-0193 B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0164)		
33 14 19 00-0194 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	204.13	128.13
33 14 19 00-0195 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	103.38	22.78
33 14 19 00-0196 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	327.10	18.51
33 14 19 00-0197 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	108.17	24.21
33 14 19 00-0198 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	168.13	39.87
33 14 19 00-0199 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	127.77	27.05
33 14 19 00-0200 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	201.80	64.06
33 14 19 00-0201 B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0164)		
33 14 19 00-0202 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	264.53	162.29
33 14 19 00-0203 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D).....	170.22	39.15
33 14 19 00-0204 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	413.36	27.05
33 14 19 00-0205 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	167.19	51.25
33 14 19 00-0206 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	257.18	56.94
33 14 19 00-0207 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	266.87	82.57
33 14 19 00-0208 B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0164)		
33 14 19 00-0209 EA 24-1/2" x 36" Precast Concrete Utility Box.....	510.46	250.56
33 14 19 00-0210 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	454.41	93.96
33 14 19 00-0211 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	589.61	41.28
33 14 19 00-0212 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	381.43	88.27
33 14 19 00-0213 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	403.73	92.53

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0284 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,901.30	461.12
33 14 19 00-0285 Two Way, Modern Model Fire Hydrant <small>(33 14 19 00-0221)</small>		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0286 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,680.65	322.78
33 14 19 00-0287 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,746.09	322.78
33 14 19 00-0288 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,812.26	322.78
33 14 19 00-0289 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,899.99	345.84
33 14 19 00-0290 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,965.41	345.84
33 14 19 00-0291 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,059.65	374.66
33 14 19 00-0292 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,125.05	374.66
33 14 19 00-0293 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,219.37	403.48
33 14 19 00-0294 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,284.60	403.48
33 14 19 00-0295 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,378.86	432.30
33 14 19 00-0296 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,473.19	461.12
33 14 19 00-0297 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,595.43	518.75
33 14 19 00-0298 Fire Hydrant Extension Kits <small>(33 14 19 00-0221)</small>		
33 14 19 00-0299 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	562.48	28.82
33 14 19 00-0300 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	668.85	36.02
33 14 19 00-0301 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	730.69	43.23
33 14 19 00-0302 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	831.76	53.32
33 14 19 00-0303 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,248.63	55.48
33 14 19 00-0304 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,333.14	57.64
33 14 19 00-0305 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,354.00	60.52
33 14 19 00-0306 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,430.39	64.84
33 14 19 00-0307 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,578.82	77.82
33 14 19 00-0308 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,669.52	93.66
33 14 19 00-0309 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	625.61	32.28
33 14 19 00-0310 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	741.49	39.20
33 14 19 00-0311 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	851.42	47.26
33 14 19 00-0312 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	953.48	58.79
33 14 19 00-0313 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,299.83	61.10
33 14 19 00-0314 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,385.45	63.40
33 14 19 00-0315 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,444.85	66.86
33 14 19 00-0316 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,688.11	71.47
33 14 19 00-0317 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,852.21	85.30
33 14 19 00-0318 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,950.12	102.60
33 14 19 00-0319 Removal And Reinstallation Of Standard Fire Hydrant <small>(33 14 19 00-0221)</small>		
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0320 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	922.23	
33 14 19 00-0321 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,344.92	
33 14 19 00-0322 EA Reset Fire Hydrant Upper Barrel.....	1,143.85	
Note: Includes Safety Repair Kit		
33 14 19 00-0323 Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0324 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	379.12	42.26
33 14 19 00-0325 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	405.28	42.26
33 14 19 00-0326 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	431.44	42.26
33 14 19 00-0327 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	319.33	53.52
33 14 19 00-0328 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	331.54	53.52
33 14 19 00-0329 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	343.76	53.52
33 14 19 00-0330 Sanitary Yard Hydrants <small>(33 14 19)</small>		
Note: With 3/4" hose thread outlet.		
33 14 19 00-0331 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,627.65	88.03
33 14 19 00-0332 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,709.42	88.03
33 14 19 00-0333 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,791.18	88.03
33 14 19 00-0334 Flushing Hydrants <small>(33 14 19)</small>		
33 14 19 00-0335 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	751.61	54.10
33 14 23 Enclosures for Water Utility Piping and Valves <small>(33 14)</small>		
See CSI section 22 11 19 00-0385 for Enclosures.		
33 14 23 00-0001 Roadway Or Curb Valve Boxes <small>(33 14 23)</small>		
See CSI section 22 05 19 00-0000 for metering.		
33 14 23 00-0002 Round Head, Cast Iron Service, Roadway Or Valve Boxes <small>(33 14 23 00-0001)</small>		
33 14 23 00-0003 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	234.78	17.11
Note: Includes cover, top section and bottom section.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0004 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	271.27	17.11
Note: Includes cover, top section and bottom section.		
33 14 23 00-0005 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	272.95	17.11
Note: Includes cover, top section and bottom section.		
33 14 23 00-0006 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	72.40	8.56
33 14 23 00-0007 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	82.06	8.56
33 14 23 00-0008 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	96.60	8.56
33 14 23 00-0009 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	351.66	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0010 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	605.29	29.95
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0011 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	673.36	29.95
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0012 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	365.17	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0013 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	381.43	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0014 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	369.01	21.40
Note: Includes cover, top section and bottom section.		
33 14 23 00-0015 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	134.17	8.56
33 14 23 00-0016 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	230.52	35.21
33 14 23 00-0017 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	237.91	36.62
33 14 23 00-0018 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	264.64	38.02
33 14 23 00-0019 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box	358.23	40.14
33 14 23 00-0020 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	430.31	42.26
33 14 23 00-0021 EA 18" Cast Iron Service Box Extension Section	99.80	
33 14 23 00-0022 Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0001)		
33 14 23 00-0023 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	396.97	49.30
33 14 23 00-0024 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	298.95	35.21
33 14 23 00-0025 EA Cast Iron Lid For Plastic Meter Box	89.89	
33 14 23 00-0026 Traffic Valve Box And Lid (33 14 23 00-0001)		
33 14 23 00-0027 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	210.42	
33 14 23 00-0028 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	620.70	
33 16 Water Utility Storage Tanks (33 10)		
33 16 23 Ground-Level Steel Water Storage Tanks (33 16)		
See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.		
33 19 Water Utility Metering Equipment (33 10)		
33 19 13 Positive Displacement Water Meters (33 19)		
33 19 13 23 Nutating Disc Water Meters (33 19 13)		
33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)		
33 19 13 23-0002 EA 5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	317.41	73.24
33 19 13 23-0003 EA 3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	398.06	87.32
33 19 13 23-0004 EA 1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	531.44	100.00
33 19 13 23-0005 EA 1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,025.85	149.29
33 19 13 23-0006 EA 2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,388.67	194.36
33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)		
33 19 13 23-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i).....	489.97	73.24
For Owner Furnished Material, Deduct	-415.84	
33 19 13 23-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	559.75	87.32
For Owner Furnished Material, Deduct	-471.72	
33 19 13 23-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	824.41	100.00
For Owner Furnished Material, Deduct	-723.80	
33 19 13 23-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,389.12	149.29
For Owner Furnished Material, Deduct	-1,239.29	
33 19 13 23-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,722.78	194.36
For Owner Furnished Material, Deduct	-1,527.16	
33 19 13 23-0013 EA Electronic Transmitter.....	389.60	35.21
Note: For use with transmitting meter valve.		
For Owner Furnished Material, Deduct	-354.39	
33 19 16 Velocity-Type Water Meters (33 19)		
33 19 16 23 Turbine Water Meters (33 19 16)		
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)		
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	657.00	136.16
33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	909.42	172.86

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 16 23-0005 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	1,502.49	220.45
33 19 16 23-0006 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	2,335.82	417.55
33 19 16 23-0007 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	4,212.07	466.83
33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0009 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	981.25	136.16
33 19 16 23-0010 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,372.32	172.86
33 19 16 23-0011 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	1,688.08	220.45
33 19 16 23-0012 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	2,581.14	417.55
33 19 16 23-0013 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	5,105.88	466.83
33 19 16 23-0014 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	6,822.75	596.51
33 19 16 23-0015 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	9,513.05	726.18
33 19 16 23-0016 EA 12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	12,469.66	1,465.33
33 19 19 Compound Water Meters (33 19)		
33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)		
33 19 19 00-0002 EA 2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,483.72	172.86
33 19 19 00-0003 EA 3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	2,906.14	220.45
33 19 19 00-0004 EA 4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	4,893.53	417.55
33 19 19 00-0005 EA 6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,714.31	466.83
33 19 19 00-0006 EA 8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	13,753.52	596.51
33 19 19 00-0007 EA 10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	23,519.64	726.18
33 19 23 Magnetic Water Meters (33 19)		
33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)		
33 19 23 00-0002 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	7,086.98	172.86
33 19 23 00-0003 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	9,792.52	220.45
33 19 23 00-0004 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	11,290.33	417.55
33 30 Sanitary Sewerage Utilities (33)		
33 31 Sanitary Sewerage Piping (33 30)		
33 31 11 Public Sanitary Sewerage Gravity Piping (33 31)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill.		
33 31 11 00-0001 Plastic Sewer And Drain Piping (33 31 11)		
33 31 11 00-0002 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
33 31 11 00-0003 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	8.63	3.71
33 31 11 00-0004 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.39	4.38
33 31 11 00-0005 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.96	5.31
33 31 11 00-0006 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	17.18	6.20
33 31 11 00-0007 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	22.77	7.20
33 31 11 00-0008 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	29.79	8.38
33 31 11 00-0009 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	39.10	8.68
33 31 11 00-0010 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	49.95	8.99
33 31 11 00-0011 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
Note: D-2729 PVC pipe.		
33 31 11 00-0012 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	12.28	5.31
33 31 11 00-0013 LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	14.46	6.20
33 31 11 00-0014 LF 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	18.48	7.20
33 31 11 00-0015 Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)		
33 31 11 00-0016 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0017 EA 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	26.46	15.01
33 31 11 00-0018 EA 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	34.06	19.41
33 31 11 00-0019 EA 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	54.69	26.07
33 31 11 00-0020 EA 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	78.08	30.13
33 31 11 00-0021 EA 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	259.23	39.16
33 31 11 00-0022 EA 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	422.33	52.70
33 31 11 00-0023 EA 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	557.98	70.19
33 31 11 00-0024 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0025 EA 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	27.37	15.01
33 31 11 00-0026 EA 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	33.98	19.41
33 31 11 00-0027 EA 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	53.33	26.07
33 31 11 00-0028 EA 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	71.42	30.13
33 31 11 00-0029 EA 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	242.27	39.16
33 31 11 00-0030 EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	382.90	52.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0031 EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	442.01	70.19
33 31 11 00-0032 EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	650.07	93.48
33 31 11 00-0033 Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0034 EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.23	14.79
33 31 11 00-0035 EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.42	19.41
33 31 11 00-0036 EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.91	26.64
33 31 11 00-0037 EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	111.62	32.50
33 31 11 00-0038 EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	198.80	37.58
33 31 11 00-0039 EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	331.56	42.88
33 31 11 00-0040 EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	526.36	49.99
33 31 11 00-0041 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	782.68	58.27
33 31 11 00-0042 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0043 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	29.31	15.01
33 31 11 00-0044 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	35.95	19.41
33 31 11 00-0045 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.98	26.07
33 31 11 00-0046 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	81.93	30.13
33 31 11 00-0047 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	315.65	39.16
33 31 11 00-0048 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	504.47	52.70
33 31 11 00-0049 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	576.69	70.19
33 31 11 00-0050 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	605.18	93.48
33 31 11 00-0051 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0052 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.61	17.13
33 31 11 00-0053 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	55.83	20.44
33 31 11 00-0054 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.90	22.55
33 31 11 00-0055 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	78.66	24.64
33 31 11 00-0056 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	85.52	27.96
33 31 11 00-0057 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	228.63	34.61
33 31 11 00-0058 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	467.73	45.89
33 31 11 00-0059 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	147.27	50.11
33 31 11 00-0060 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	194.44	54.65
33 31 11 00-0061 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	188.58	61.38
33 31 11 00-0062 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	498.53	66.34
33 31 11 00-0063 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	528.55	73.07
33 31 11 00-0064 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	562.66	81.83
33 31 11 00-0065 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0066 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.03	22.68
33 31 11 00-0067 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.00	29.34
33 31 11 00-0068 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	84.91	38.71
33 31 11 00-0069 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	123.17	48.07
33 31 11 00-0070 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	376.29	52.70
33 31 11 00-0071 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	489.66	70.19
33 31 11 00-0072 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0073 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	48.07	22.68
33 31 11 00-0074 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.09	29.34
33 31 11 00-0075 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.14	38.71
33 31 11 00-0076 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	131.73	48.07
33 31 11 00-0077 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	344.19	52.70
33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	428.67	70.19
33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	564.73	93.66
33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	876.52	124.99
33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	59.12	22.68
33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	68.84	29.34
33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	82.87	38.71
33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	119.99	48.07
33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	128.02	48.07
33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.92	29.34
33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	96.65	38.71
33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	177.90	52.25
33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	296.69	63.19
33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	93.32	38.71
33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	152.45	52.25
33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	254.66	63.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0095	Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0096 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	56.85	22.68
33 31 11 00-0097 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.80	29.34
33 31 11 00-0098 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	131.33	38.71
33 31 11 00-0099 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	224.11	48.07
33 31 11 00-0100 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	101.63	29.34
33 31 11 00-0101 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	158.36	38.71
33 31 11 00-0102 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	120.76	38.71
33 31 11 00-0103 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	211.44	48.07
33 31 11 00-0104 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	223.03	48.07
33 31 11 00-0105	Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0106 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	80.73	29.34
33 31 11 00-0107 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	97.41	38.71
33 31 11 00-0108 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	146.62	52.25
33 31 11 00-0109 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	454.65	63.19
33 31 11 00-0110 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	1,411.34	69.96
33 31 11 00-0111	Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0112 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	395.10	114.90
33 31 11 00-0113 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	869.52	148.24
33 31 11 00-0114 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,119.19	208.89
33 31 11 00-0115 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,572.80	336.02
33 31 11 00-0116	Couplings, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0117 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	26.00	15.01
33 31 11 00-0118 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	32.75	19.30
33 31 11 00-0119 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	48.69	25.84
33 31 11 00-0120 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	61.36	30.13
33 31 11 00-0121 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	148.31	39.16
33 31 11 00-0122 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	337.59	52.70
33 31 11 00-0123 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	506.05	70.19
33 31 11 00-0124 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	823.01	93.48
33 31 11 00-0125	Adapters, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0126 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting.....	148.67	91.03
33 31 11 00-0127 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	107.89	69.25
33 31 11 00-0128 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	109.66	69.25
33 31 11 00-0129 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	114.38	69.25
33 31 11 00-0130 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	149.97	91.03
33 31 11 00-0131 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	146.20	91.03
33 31 11 00-0132 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	139.99	91.03
33 31 11 00-0133 EA 4" Drain Grate, Drain And Sewer Fitting	74.75	46.81
33 31 11 00-0134	Caps, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0135 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	35.04	16.14
33 31 11 00-0136 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	54.61	20.09
33 31 11 00-0137 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	97.51	25.96
33 31 11 00-0138	Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain <small>(33 31 11 00-0015)</small>	
33 31 11 00-0139 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	24.67	15.01
33 31 11 00-0140 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	32.02	19.41
33 31 11 00-0141 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	46.16	26.07
33 31 11 00-0142 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.61	30.13
33 31 11 00-0143 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	94.33	39.16
33 31 11 00-0144 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	307.90	52.70
33 31 11 00-0145	Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe <small>(33 31 11 00-0001)</small>	
Note: ASTM 3034.		
33 31 11 00-0146 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	16.12	6.20
33 31 11 00-0147 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	21.54	7.20
33 31 11 00-0148 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	28.87	8.38
33 31 11 00-0149 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	35.52	8.68
33 31 11 00-0150 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	43.54	8.98
33 31 11 00-0151 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	56.97	9.30
33 31 11 00-0152 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	72.33	9.63
33 31 11 00-0153 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	94.08	10.47
33 31 11 00-0154 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	114.20	11.29
33 31 11 00-0155 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	142.05	13.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0156 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0157 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	16.26	6.20
33 31 11 00-0158 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	22.17	7.20
33 31 11 00-0159 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	30.31	8.38
33 31 11 00-0160 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001) Note: ASTM 3034.		
33 31 11 00-0161 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0162 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	75.18	26.31
33 31 11 00-0163 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	108.62	30.59
33 31 11 00-0164 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	217.53	34.66
33 31 11 00-0165 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	604.21	40.78
33 31 11 00-0166 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	780.52	52.00
33 31 11 00-0167 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0168 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	68.74	26.31
33 31 11 00-0169 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	101.52	30.59
33 31 11 00-0170 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	199.58	34.66
33 31 11 00-0171 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	435.12	40.78
33 31 11 00-0172 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	619.76	52.00
33 31 11 00-0173 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,316.06	73.40
33 31 11 00-0174 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,083.92	103.99
33 31 11 00-0175 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,465.18	137.63
33 31 11 00-0176 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,723.45	183.50
33 31 11 00-0177 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0178 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	113.68	39.46
33 31 11 00-0179 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	176.63	43.73
33 31 11 00-0180 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	197.41	45.87
33 31 11 00-0181 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	217.08	48.02
33 31 11 00-0182 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	247.03	50.16
33 31 11 00-0183 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	249.06	52.30
33 31 11 00-0184 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	583.62	53.52
33 31 11 00-0185 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	659.98	56.08
33 31 11 00-0186 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	966.63	58.21
33 31 11 00-0187 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,255.18	61.17
33 31 11 00-0188 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	717.89	65.15
33 31 11 00-0189 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	761.50	67.29
33 31 11 00-0190 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,078.04	69.43
33 31 11 00-0191 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,546.05	72.38
33 31 11 00-0192 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,741.14	77.99
33 31 11 00-0193 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0194 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	108.68	39.46
33 31 11 00-0195 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	159.97	43.73
33 31 11 00-0196 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	175.04	45.87
33 31 11 00-0197 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	209.94	48.02
33 31 11 00-0198 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	238.51	50.16
33 31 11 00-0199 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	357.28	52.30
33 31 11 00-0200 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	535.42	53.93
33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	546.51	56.08
33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	813.86	58.21
33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	899.54	61.17
33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	677.56	65.15
33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	698.86	67.29
33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	992.19	69.43
33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,191.93	72.38
33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,245.29	77.99
33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,533.95	93.80
33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,700.33	99.40
33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,121.32	110.10
33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	74.61	26.31
33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	112.42	30.59
33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	162.46	34.66
33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	299.59	40.78
33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	423.17	52.00
33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	818.57	73.40
33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,528.61	103.99
33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,539.15	137.63
33 31 11 00-0221 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	3,670.67	183.50

33	33 Utilities
33 30	Sanitary Sewerage Utilities
33 31	Sanitary Sewerage Piping



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 31 11 00-0222		Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0223	EA	6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	135.72	28.45
33 31 11 00-0224	EA	8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	191.19	30.59
33 31 11 00-0225	EA	8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	201.76	32.72
33 31 11 00-0226	EA	10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	442.21	35.68
33 31 11 00-0227	EA	10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	507.21	37.82
33 31 11 00-0228	EA	12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	566.42	41.29
33 31 11 00-0229	EA	12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	648.81	43.43
33 31 11 00-0230	EA	12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	742.83	46.39
33 31 11 00-0231	EA	15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,116.09	62.69

33 31 11 00-0232		Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0233	EA	6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	114.58	
33 31 11 00-0234	EA	8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	150.15	
33 31 11 00-0235	EA	8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	153.24	
33 31 11 00-0236	EA	10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	247.82	
33 31 11 00-0237	EA	10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	260.74	
33 31 11 00-0238	EA	10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	482.92	
33 31 11 00-0239	EA	12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	283.33	
33 31 11 00-0240	EA	12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	307.54	
33 31 11 00-0241	EA	12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	666.25	
33 31 11 00-0242	EA	12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	782.82	
33 31 11 00-0243	EA	15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	329.59	
33 31 11 00-0244	EA	15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	350.72	

33 31 11 00-0245		Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) <small>(33 31 11 00-0160)</small>		
33 31 11 00-0246	EA	6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	121.82	
33 31 11 00-0247	EA	8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	150.15	
33 31 11 00-0248	EA	8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	163.08	
33 31 11 00-0249	EA	10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	228.67	
33 31 11 00-0250	EA	10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	259.19	
33 31 11 00-0251	EA	10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	386.48	
33 31 11 00-0252	EA	12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	281.79	
33 31 11 00-0253	EA	12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	306.08	
33 31 11 00-0254	EA	12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	450.32	
33 31 11 00-0255	EA	12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	544.46	
33 31 11 00-0256	EA	15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	328.64	
33 31 11 00-0257	EA	15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	343.56	
33 31 11 00-0258	EA	15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	556.84	
33 31 11 00-0259	EA	15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	613.65	
33 31 11 00-0260	EA	15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	857.82	

33 31 11 00-0261		Couplings And Plug Fittings <small>(33 31 11)</small>		
33 31 11 00-0262		Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings <small>(33 31 11 00-0261)</small>		
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.				
33 31 11 00-0263	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	25.14	8.54
33 31 11 00-0264	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	27.44	9.96
33 31 11 00-0265	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	31.96	11.39
33 31 11 00-0266	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	36.42	12.10
33 31 11 00-0267	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	45.26	12.81
33 31 11 00-0268	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	54.15	14.24
33 31 11 00-0269	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	70.00	15.66
33 31 11 00-0270	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	87.46	16.37
33 31 11 00-0271	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	148.28	17.08
33 31 11 00-0272	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	203.98	18.51
33 31 11 00-0273	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	399.82	19.22
33 31 11 00-0274	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	465.39	20.29
33 31 11 00-0275	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	516.07	21.36
33 31 11 00-0276	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	619.09	22.78

33 31 11 00-0277		Cast Iron Service Saddles With U Bolt <small>(33 31 11)</small>		
33 31 11 00-0278	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	122.01	
33 31 11 00-0279	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	122.56	
33 31 11 00-0280	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	135.09	
33 31 11 00-0281	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	130.34	
33 31 11 00-0282	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	146.58	
33 31 11 00-0283	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	164.20	
33 31 11 00-0284	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	194.23	
33 31 11 00-0285	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	163.45	
33 31 11 00-0286	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	178.61	
33 31 11 00-0287	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	206.38	



Utilities	33	CS
Sanitary Sewerage Utilities	33 30	
Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0288 EA 4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	133.40	
33 31 11 00-0289 EA 4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt.....	145.93	
33 31 11 00-0290 EA 4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt.....	171.35	
33 31 11 00-0291 EA 4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	203.02	
33 31 11 00-0292 EA 6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt.....	217.33	

33 32 Sanitary Sewerage Equipment (33 30)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001 Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)

33 32 16 00-0002 EA 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,330.62	422.81
Note: Zoeller 840 series.		
33 32 16 00-0003 EA 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,299.92	422.81
Note: Zoeller 840 series.		
33 32 16 00-0004 EA Simplex Control Panel With Auto Reversing Switch.....	1,078.90	140.89
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005 EA Duplex Control Panel With Auto Reversing Switch.....	1,649.39	140.89
Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006 EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	10,965.10	

33 32 16 00-0007 Submersible Grinder Pumps (33 32 16)

Note: Includes 50' of cord with pumps unless otherwise noted.

33 32 16 00-0008 EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	3,942.71	766.29
33 32 16 00-0009 EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	5,849.95	894.00
33 32 16 00-0010 EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof.....	7,173.15	1,149.44

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-0001 Precast Concrete Septic Tank (33 34 13 13)

Note: Includes external coating.

33 34 13 13-0002 EA 1,000 Gallon Precast Septic Tank.....	3,570.49	766.29
For Non-Traffic Rated, Deduct	-657.36	
33 34 13 13-0003 EA 1,250 Gallon Precast Septic Tank.....	4,273.55	845.86
For Non-Traffic Rated, Deduct	-808.77	
33 34 13 13-0004 EA 1,500 Gallon Precast Septic Tank.....	4,950.24	925.30
For Non-Traffic Rated, Deduct	-953.55	
33 34 13 13-0005 EA 2,000 Gallon Precast Septic Tank.....	6,311.25	1,005.75
For Non-Traffic Rated, Deduct	-1,270.00	
33 34 13 13-0006 EA 2,500 Gallon Precast Septic Tank.....	7,563.93	1,388.90
For Non-Traffic Rated, Deduct	-1,466.14	
33 34 13 13-0007 EA 4,000 Gallon Precast Septic Tank.....	19,704.74	1,915.72
For Non-Traffic Rated, Deduct	-4,338.70	
33 34 13 13-0008 EA 5,000 Gallon Precast Septic Tank.....	35,687.95	2,873.59
For Non-Traffic Rated, Deduct	-8,043.27	
33 34 13 13-0009 EA 7,500 Gallon Precast Septic Tank.....	40,195.05	4,023.02
For Non-Traffic Rated, Deduct	-8,824.83	
33 34 13 13-0010 EA 10,000 Gallon Precast Septic Tank.....	49,262.88	4,813.32
For Non-Traffic Rated, Deduct	-10,847.00	
33 34 13 13-0011 EA 12,500 Gallon Precast Septic Tank.....	58,290.16	5,962.76
For Non-Traffic Rated, Deduct	-12,736.64	

33 34 13 23 Fiberglass Septic Tank (33 34 13)

33 34 13 23-0001 Fiberglass Septic Tank (33 34 13 23)

33 34 13 23-0002 EA 1,000 Gallon Fiberglass Septic Tank.....	1,848.77	574.71
33 34 13 23-0003 EA 1,250 Gallon Fiberglass Septic Tank.....	2,261.68	766.29
33 34 13 23-0004 EA 1,500 Gallon Fiberglass Septic Tank.....	2,424.14	694.52
33 34 13 23-0005 EA 2,000 Gallon Fiberglass Septic Tank.....	3,661.08	751.86
33 34 13 23-0006 EA 2,500 Gallon Fiberglass Septic Tank.....	4,689.83	1,042.16
33 34 13 23-0007 EA 4,000 Gallon Fiberglass Septic Tank.....	7,233.33	1,436.79
33 34 13 23-0008 EA 5,000 Gallon Fiberglass Septic Tank.....	10,761.94	2,155.19
33 34 13 23-0009 EA 7,500 Gallon Fiberglass Septic Tank.....	14,797.97	3,017.26
33 34 13 23-0010 EA 10,000 Gallon Fiberglass Septic Tank.....	18,093.63	3,606.29

33 34 13 33 Polyethylene Septic Tank (33 34 13)

33 34 13 33-0001 High Density Polyethylene (HDPE) Septic Tank (33 34 13 33)

33 34 13 33-0002 EA 300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,209.61	259.35
33 34 13 33-0003 EA 500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank.....	1,804.35	291.77
33 34 13 33-0004 EA 900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,482.26	356.61
33 34 13 33-0005 EA 1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,561.37	389.02
33 34 13 33-0006 EA 1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,952.30	421.45

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 34 13 33-0007 EA 1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,514.42	453.86
33 34 13 33-0008 EA 750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,480.60	324.19
33 34 13 33-0009 EA 1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	2,724.42	389.02
33 34 13 33-0010 EA 1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,184.64	421.45
33 34 13 33-0011 EA 1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank.....	3,718.23	453.86
33 34 51 Drainage Field System (33 34)		
33 34 51 00-0001 Leaching Pit - Precast Concrete (33 34 51)		
Note: Includes external coating.		
33 34 51 00-0002 EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	1,146.79	112.39
33 34 51 00-0003 EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,628.86	159.64
33 34 51 00-0004 EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	2,169.50	191.57
33 34 51 00-0005 EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	3,522.94	319.29
33 34 51 00-0006 EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	5,164.34	447.01
33 34 53 Distribution Chambers (33 34)		
33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)		
33 34 53 13-0001 Concrete Distribution Boxes (33 34 53 13)		
Note: Includes internal and external coating.		
33 34 53 13-0002 EA 3 Outlet Concrete Distribution Box.....	335.61	85.27
33 34 53 13-0003 EA 5 Outlet Concrete Distribution Box.....	392.15	102.32
33 34 53 13-0004 EA 8 Outlet Concrete Distribution Box.....	656.56	119.38
33 34 53 13-0005 EA 12 Outlet Concrete Distribution Box.....	1,281.60	204.65
33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)		
33 34 53 13-0007 EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4"	1,318.84	82.55
33 34 53 13-0008 EA Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6"	1,593.38	112.58
33 34 56 Drainage Field Dosing Chambers (33 34)		
33 34 56 00-0001 Dosing Siphon (33 34 56)		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	4,862.27	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon	3,321.75	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon	3,192.99	
33 40 Stormwater Utilities (33)		
33 41 Subdrainage (33 40)		
33 41 16 Subdrainage Piping (33 41)		
33 41 16 13 Subdrainage Piping (33 41 16)		
See CSI section 33 42 11 00-0227 for polyethylene drain pipe.		
33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001)		
Note: Excludes couplings and gaskets.		
33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.32	4.42
For <100, Add 0.93		
For >1,000, Deduct -0.49		
33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	6.76	4.74
For <100, Add 1.05		
For >1,000, Deduct -0.58		
33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	8.54	4.97
For <100, Add 1.17		
For >1,000, Deduct -0.68		
33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	11.72	5.13
For <100, Add 1.36		
For >1,000, Deduct -0.84		
33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.82	5.60
For <100, Add 1.53		
For >1,000, Deduct -0.97		
33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.29	6.32
For <100, Add 1.86		
For >1,000, Deduct -1.23		
33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	29.24	10.50
For <100, Add 3.04		
For >1,000, Deduct -1.99		
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	40.79	11.52
For <100, Add 3.77		
For >1,000, Deduct -2.62		



Utilities	33	CS
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0012			Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 41 16 13-0002)</small>		
33 41 16 13-0013	LF		4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.19	4.42
			<i>For <100, Add</i>	0.92	
			<i>For >1,000, Deduct</i>	-0.48	
33 41 16 13-0014	LF		6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	6.70	4.74
			<i>For <100, Add</i>	1.05	
			<i>For >1,000, Deduct</i>	-0.57	
33 41 16 13-0015	LF		8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.99	4.97
			<i>For <100, Add</i>	1.30	
			<i>For >1,000, Deduct</i>	-0.80	
33 41 16 13-0016	LF		10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.01	5.13
			<i>For <100, Add</i>	1.42	
			<i>For >1,000, Deduct</i>	-0.91	
33 41 16 13-0017	LF		12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.24	5.60
			<i>For <100, Add</i>	1.60	
			<i>For >1,000, Deduct</i>	-1.04	
33 41 16 13-0018	LF		15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.14	6.32
			<i>For <100, Add</i>	1.86	
			<i>For >1,000, Deduct</i>	-1.22	
33 41 16 13-0019	LF		18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	28.31	10.50
			<i>For <100, Add</i>	2.99	
			<i>For >1,000, Deduct</i>	-1.94	
33 41 16 13-0020	LF		24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	39.31	11.52
			<i>For <100, Add</i>	3.69	
			<i>For >1,000, Deduct</i>	-2.54	
33 41 16 13-0021			Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings <small>(33 41 16 13-0001)</small>		
			Note: Excludes couplings and gaskets.		
33 41 16 13-0022			Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023	EA		4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	43.63	24.48
33 41 16 13-0024	EA		6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	51.72	28.56
33 41 16 13-0025	EA		8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	80.55	34.68
33 41 16 13-0026	EA		10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	102.90	42.84
33 41 16 13-0027	EA		12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	149.09	51.01
33 41 16 13-0028	EA		15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	310.86	66.64
33 41 16 13-0029	EA		18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	374.67	89.76
33 41 16 13-0030	EA		24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	689.05	102.00
33 41 16 13-0031			Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0032	EA		4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.66	24.48
33 41 16 13-0033	EA		6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	55.10	28.56
33 41 16 13-0034	EA		8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	115.86	34.68
33 41 16 13-0035			45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0036	EA		4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	29.44	16.32
33 41 16 13-0037			90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) <small>(33 41 16 13-0021)</small>		
33 41 16 13-0038	EA		4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	30.52	16.32
33 41 16 13-0039	EA		6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	38.85	19.04
33 41 16 13-0040	EA		8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	56.21	23.12
33 41 16 13-0041	EA		10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	73.52	28.56
33 41 16 13-0042			Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 <small>(33 41 16 13)</small>		
			Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043	LF		3" Perforated Polyvinyl Chloride (PVC) Drainage Piping	7.97	4.58
			<i>For <100, Add</i>	1.09	
			<i>For >1,000, Deduct</i>	-0.63	
33 41 16 13-0044	LF		4" Perforated Polyvinyl Chloride (PVC) Drainage Piping	8.72	4.95
			<i>For <100, Add</i>	1.18	
			<i>For >1,000, Deduct</i>	-0.68	
33 41 16 13-0045	LF		6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	12.43	5.94
			<i>For <100, Add</i>	1.51	
			<i>For >1,000, Deduct</i>	-0.92	
33 41 16 13-0046	LF		8" Perforated Polyvinyl Chloride (PVC) Drainage Piping	19.54	7.42
			<i>For <100, Add</i>	2.09	
			<i>For >1,000, Deduct</i>	-1.35	
33 41 16 13-0047	LF		10" Perforated Polyvinyl Chloride (PVC) Drainage Piping	31.96	7.73
			<i>For <100, Add</i>	2.76	
			<i>For >1,000, Deduct</i>	-1.98	
33 41 16 13-0048	LF		12" Perforated Polyvinyl Chloride (PVC) Drainage Piping	40.88	8.43
			<i>For <100, Add</i>	3.31	
			<i>For >1,000, Deduct</i>	-2.47	

33	Utilities
33 40	Stormwater Utilities
33 41	Subdrainage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping	47.88	9.51
For <100, Add	3.82	
For >1,000, Deduct	-2.87	
33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 (33 41 16 13)		
33 41 16 13-0051 LF 6" Perforated Non Reinforced Concrete Drainage Pipe	28.74	11.09
For Extra Strength, Add	1.52	
For >1,000, Deduct	-1.44	
33 41 16 13-0052 LF 8" Perforated Non Reinforced Concrete Drainage Pipe	33.52	12.33
For Extra Strength, Add	1.87	
For >1,000, Deduct	-1.68	
33 41 16 13-0053 LF 10" Perforated Non Reinforced Concrete Drainage Pipe	37.88	13.56
For Extra Strength, Add	2.17	
For >1,000, Deduct	-1.89	
33 41 16 13-0054 LF 12" Perforated Non Reinforced Concrete Drainage Pipe	44.33	14.79
For Extra Strength, Add	2.73	
For >1,000, Deduct	-2.22	
33 41 16 13-0055 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	24.04	11.09
For >1,000, Deduct	-1.20	
33 41 16 13-0057 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	26.62	12.33
For >1,000, Deduct	-1.33	
33 41 16 13-0058 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	29.36	13.56
For >1,000, Deduct	-1.47	
33 41 16 13-0059 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	33.43	14.09
For >1,000, Deduct	-1.67	
33 41 16 13-0060 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	38.76	15.84
For >1,000, Deduct	-1.94	
33 41 16 13-0061 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	47.98	20.25
For >1,000, Deduct	-2.40	
33 41 16 13-0062 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	59.96	25.97
For >1,000, Deduct	-3.00	
33 41 16 13-0063 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe	73.08	31.70
For >1,000, Deduct	-3.65	
33 41 16 13-0064 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
33 41 16 13-0065 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	22.49	11.09
For >1,000, Deduct	-1.12	
33 41 16 13-0066 LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	28.34	12.33
For >1,000, Deduct	-1.42	
33 41 16 13-0067 LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	35.58	13.56
For >1,000, Deduct	-1.78	
33 41 16 13-0068 LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	42.95	14.79
For >1,000, Deduct	-2.15	
33 41 16 13-0069 LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	49.13	16.45
For >1,000, Deduct	-2.46	
33 41 16 13-0070 LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe	63.56	20.52
For >1,000, Deduct	-3.18	
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe	24.76	12.33
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe	29.95	13.87
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe	35.02	13.87
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe	47.65	16.95
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe	57.36	18.49
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....	0.70	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....	0.93	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....	1.42	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....	1.89	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....	2.83	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....	3.87	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock.....	4.64	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	20.91	5.28
For Full Perforated, Add	1.03	
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	26.44	6.40
For Full Perforated, Add	1.36	
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	33.34	8.13
For Full Perforated, Add	1.71	



Utilities	33	CS
Stormwater Utilities	33 40	
Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	37.08	9.60
For Full Perforated, Add	1.79	
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	42.34	9.95
For Full Perforated, Add	2.25	
33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	47.73	10.30
For Full Perforated, Add	2.71	
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	54.53	11.12
For Full Perforated, Add	3.23	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	22.57	5.28
For Full Perforated, Add	1.20	
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	28.69	6.40
For Full Perforated, Add	1.59	
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	36.09	8.13
For Full Perforated, Add	1.98	
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	39.76	9.60
For Full Perforated, Add	2.06	
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	45.65	9.95
For Full Perforated, Add	2.58	
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	51.66	10.30
For Full Perforated, Add	3.11	
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	59.10	11.12
For Full Perforated, Add	3.69	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	23.11	5.28
For Full Perforated, Add	1.25	
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	29.38	6.40
For Full Perforated, Add	1.66	
33 41 16 13-0104 LF 10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	36.97	8.13
For Full Perforated, Add	2.07	
33 41 16 13-0105 LF 12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	46.36	9.60
For Full Perforated, Add	2.72	
33 41 16 13-0106 LF 15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	53.86	9.95
For Full Perforated, Add	3.40	
33 41 16 13-0107 LF 18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	61.62	10.30
For Full Perforated, Add	4.10	
33 41 16 13-0108 LF 21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	70.71	11.12
For Full Perforated, Add	4.85	
33 41 19 Underslab Drainage (33 41)		
33 41 19 13 Underslab Drainage Piping (33 41 19)		
33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)		
Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 13-0002 CY 2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	92.25	
33 41 19 13-0003 CY 4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	89.90	
33 41 19 13-0004 CY 6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	88.96	
33 41 19 13-0005 CY 8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	87.55	
33 42 Stormwater Conveyance (33 42)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape.		
33 42 11 Stormwater Gravity Piping (33 42)		
33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)		
33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0003 LF 12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	42.79	14.79
For >1,000, Deduct	-2.14	
For Class 4, Add	2.06	
For Class 5, Add	4.33	
33 42 11 00-0004 LF 15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	51.25	16.45
For >1,000, Deduct	-2.56	
For Class 4, Add	2.64	
For Class 5, Add	5.55	
33 42 11 00-0005 LF 18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	58.49	20.52
For >1,000, Deduct	-2.92	
For Class 4, Add	2.77	
For Class 5, Add	5.83	
33 42 11 00-0006 LF 21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	74.89	25.89
For >1,000, Deduct	-3.74	
For Class 4, Add	3.60	
For Class 5, Add	7.58	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0007	LF		24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	87.79	31.43
			<i>For >1,000, Deduct</i>	-4.39	
			<i>For Class 4, Add</i>	4.08	
			<i>For Class 5, Add</i>	8.58	
33 42 11 00-0008	LF		27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	111.25	39.97
			<i>For >1,000, Deduct</i>	-5.56	
			<i>For Class 4, Add</i>	5.14	
			<i>For Class 5, Add</i>	10.83	
33 42 11 00-0009	LF		30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	118.23	41.28
			<i>For >1,000, Deduct</i>	-5.91	
			<i>For Class 4, Add</i>	5.56	
			<i>For Class 5, Add</i>	11.71	
33 42 11 00-0010	LF		36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	145.75	46.91
			<i>For >1,000, Deduct</i>	-7.29	
			<i>For Class 4, Add</i>	7.55	
			<i>For Class 5, Add</i>	15.89	
33 42 11 00-0011	LF		42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	187.92	51.59
			<i>For >1,000, Deduct</i>	-9.40	
			<i>For Class 4, Add</i>	10.92	
			<i>For Class 5, Add</i>	22.99	
33 42 11 00-0012	LF		48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	224.64	57.46
			<i>For >1,000, Deduct</i>	-11.23	
			<i>For Class 4, Add</i>	13.54	
			<i>For Class 5, Add</i>	28.51	
33 42 11 00-0013	LF		54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	278.91	65.67
			<i>For >1,000, Deduct</i>	-13.95	
			<i>For Class 4, Add</i>	17.58	
			<i>For Class 5, Add</i>	37.02	
33 42 11 00-0014	LF		60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	336.46	76.18
			<i>For >1,000, Deduct</i>	-16.82	
			<i>For Class 4, Add</i>	21.63	
			<i>For Class 5, Add</i>	45.53	
33 42 11 00-0015	LF		66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	515.01	84.43
			<i>For >1,000, Deduct</i>	-25.75	
			<i>For Class 4, Add</i>	37.52	
			<i>For Class 5, Add</i>	78.99	
33 42 11 00-0016	LF		72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	600.17	91.93
			<i>For >1,000, Deduct</i>	-30.01	
			<i>For Class 4, Add</i>	44.54	
			<i>For Class 5, Add</i>	93.77	
33 42 11 00-0017	LF		78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	720.96	103.19
			<i>For >1,000, Deduct</i>	-36.05	
			<i>For Class 4, Add</i>	54.45	
			<i>For Class 5, Add</i>	114.64	
33 42 11 00-0018	LF		84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	926.71	114.92
			<i>For >1,000, Deduct</i>	-46.34	
			<i>For Class 4, Add</i>	72.44	
			<i>For Class 5, Add</i>	152.51	
33 42 11 00-0019			HE-I Elliptical Reinforced Concrete Piping Without Gaskets <small>(33 42 11 00-0001)</small>		
33 42 11 00-0020	LF		12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	71.71	23.32
			<i>For >1,000, Deduct</i>	-3.59	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	3.84	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	8.45	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	18.43	
33 42 11 00-0021	LF		14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	102.11	27.29
			<i>For >1,000, Deduct</i>	-5.11	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	6.31	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	13.89	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	30.30	
33 42 11 00-0022	LF		19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	142.31	41.79
			<i>For >1,000, Deduct</i>	-7.12	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	8.26	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	18.17	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	39.64	
33 42 11 00-0023	LF		22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	168.27	53.16
			<i>For >1,000, Deduct</i>	-8.41	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	9.23	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	20.31	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	44.31	
33 42 11 00-0024	LF		24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	178.52	55.55
			<i>For >1,000, Deduct</i>	-8.93	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	9.92	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	21.82	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	47.60	
33 42 11 00-0025	LF		27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	204.37	58.65
			<i>For >1,000, Deduct</i>	-10.22	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	12.06	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	26.53	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	57.88	
33 42 11 00-0026	LF		29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	230.22	61.75
			<i>For >1,000, Deduct</i>	-11.51	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	14.20	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	31.24	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	68.16	



Utilities 33		CS
Stormwater Utilities 33 40		
Stormwater Conveyance 33 42		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0027 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	279.76	67.95
For >1,000, Deduct	-13.99	
For Horizontal Elliptical - II (HE- II), Add	18.27	
For Horizontal Elliptical - III (HE- III), Add	40.19	
For Horizontal Elliptical - IV (HE- IV), Add	87.69	
33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	336.45	76.42
For >1,000, Deduct	-16.82	
For Horizontal Elliptical - II (HE- II), Add	22.73	
For Horizontal Elliptical - III (HE- III), Add	50.00	
For Horizontal Elliptical - IV (HE- IV), Add	109.09	
33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	383.05	87.34
For >1,000, Deduct	-19.15	
For Horizontal Elliptical - II (HE- II), Add	25.83	
For Horizontal Elliptical - III (HE- III), Add	56.82	
For Horizontal Elliptical - IV (HE- IV), Add	123.97	
33 42 11 00-0030 LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	473.61	101.32
For >1,000, Deduct	-23.68	
For Horizontal Elliptical - II (HE- II), Add	32.89	
For Horizontal Elliptical - III (HE- III), Add	72.35	
For Horizontal Elliptical - IV (HE- IV), Add	157.86	
33 42 11 00-0031 LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	540.11	111.63
33 42 11 00-0032 LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	653.54	121.95
33 42 11 00-0033 LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	779.75	137.91
33 42 11 00-0034 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	844.55	152.91
33 42 11 00-0035 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,077.71	160.42
33 42 11 00-0036 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,247.03	167.92
33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0038 EA 12" Concrete Reducing Wye Without Gaskets	508.90	56.34
33 42 11 00-0039 EA 15" Concrete Reducing Wye Without Gaskets	610.41	68.67
33 42 11 00-0040 EA 18" Concrete Reducing Wye Without Gaskets	753.34	75.71
33 42 11 00-0041 EA 21" Concrete Reducing Wye Without Gaskets	865.28	93.32
33 42 11 00-0042 EA 24" Concrete Reducing Wye Without Gaskets	978.60	112.68
33 42 11 00-0043 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0044 EA 12" Diameter Concrete Pipe Joint Gasket	4.80	
33 42 11 00-0045 EA 15" Diameter Concrete Pipe Joint Gasket	5.68	
33 42 11 00-0046 EA 18" Diameter Concrete Pipe Joint Gasket	6.58	
33 42 11 00-0047 EA 21" Diameter Concrete Pipe Joint Gasket	7.96	
33 42 11 00-0048 EA 24" Diameter Concrete Pipe Joint Gasket	9.32	
33 42 11 00-0049 EA 27" Diameter Concrete Pipe Joint Gasket	10.39	
33 42 11 00-0050 EA 30" Diameter Concrete Pipe Joint Gasket	11.41	
33 42 11 00-0051 EA 36" Diameter Concrete Pipe Joint Gasket	13.94	
33 42 11 00-0052 EA 42" Diameter Concrete Pipe Joint Gasket	16.17	
33 42 11 00-0053 EA 48" Diameter Concrete Pipe Joint Gasket	18.64	
33 42 11 00-0054 EA 54" Diameter Concrete Pipe Joint Gasket	22.85	
33 42 11 00-0055 EA 60" Diameter Concrete Pipe Joint Gasket	33.83	
33 42 11 00-0056 EA 66" Diameter Concrete Pipe Joint Gasket	35.17	
33 42 11 00-0057 EA 72" Diameter Concrete Pipe Joint Gasket	36.46	
33 42 11 00-0058 EA 78" Diameter Concrete Pipe Joint Gasket	41.99	
33 42 11 00-0059 EA 84" Diameter Concrete Pipe Joint Gasket	50.34	
33 42 11 00-0060 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0061 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	275.11	165.11
33 42 11 00-0062 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	338.93	204.51
33 42 11 00-0063 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	417.76	258.92
33 42 11 00-0064 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	492.83	309.58
33 42 11 00-0065 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	565.93	358.26
33 42 11 00-0066 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	689.90	457.81
33 42 11 00-0067 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	887.15	630.42
33 42 11 00-0068 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,101.32	795.53
33 42 11 00-0069 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,352.38	997.97
33 42 11 00-0070 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,509.79	1,124.80
33 42 11 00-0071 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,683.22	1,260.83
33 42 11 00-0072 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,858.20	1,400.61
33 42 11 00-0073 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,931.47	1,454.08
33 42 11 00-0074 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,995.98	1,500.99
33 42 11 00-0075 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,060.47	1,547.89
33 42 11 00-0076 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,127.18	1,594.80
33 42 11 00-0077 Strap Assembly (33 42 11 00-0001)		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0078 EA Up To 24" Diameter Pipe, 12' Strap Assembly	212.79	
33 42 11 00-0079 EA >24" Diameter Pipe, 12' Strap Assembly	300.15	
33 42 11 00-0080 Prestressed Concrete Cylinder Piping (33 42 11)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0081			150 PSI Prestressed Concrete Cylinder Pipe And Fittings <small>(33 42 11 00-0080)</small>		
33 42 11 00-0082			150 PSI Prestressed Concrete Cylinder Pipe With Gaskets <small>(33 42 11 00-0081)</small>		
			Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0083	LF		12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	114.45	14.79
			For >1,000, Deduct	-5.72	
			For 100 PSI, Deduct	-23.33	
33 42 11 00-0084	LF		15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	122.23	16.45
			For >1,000, Deduct	-6.11	
			For 100 PSI, Deduct	-24.68	
33 42 11 00-0085	LF		18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	133.44	20.52
			For >1,000, Deduct	-6.67	
			For 100 PSI, Deduct	-26.03	
33 42 11 00-0086	LF		21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	146.49	25.89
			For >1,000, Deduct	-7.32	
			For 100 PSI, Deduct	-27.38	
33 42 11 00-0087	LF		24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	159.82	31.43
			For >1,000, Deduct	-7.99	
			For 100 PSI, Deduct	-28.73	
33 42 11 00-0088	LF		30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	188.34	41.28
			For >1,000, Deduct	-9.42	
			For 100 PSI, Deduct	-32.17	
33 42 11 00-0089	LF		36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	208.75	46.91
			For >1,000, Deduct	-10.44	
			For 100 PSI, Deduct	-35.61	
33 42 11 00-0090	LF		42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	241.94	51.59
			For >1,000, Deduct	-12.10	
			For 100 PSI, Deduct	-42.24	
33 42 11 00-0091	LF		48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	277.56	57.46
			For >1,000, Deduct	-13.88	
			For 100 PSI, Deduct	-48.87	
33 42 11 00-0092	LF		54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	368.45	75.02
			For >1,000, Deduct	-18.42	
			For 100 PSI, Deduct	-65.32	
33 42 11 00-0093	LF		60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	443.55	87.02
			For >1,000, Deduct	-22.18	
			For 100 PSI, Deduct	-79.81	
33 42 11 00-0094	LF		66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	498.17	96.46
			For >1,000, Deduct	-24.91	
			For 100 PSI, Deduct	-90.25	
33 42 11 00-0095	LF		72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	555.22	105.03
			For >1,000, Deduct	-27.76	
			For 100 PSI, Deduct	-101.30	
33 42 11 00-0096	LF		78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	630.46	117.88
			For >1,000, Deduct	-31.52	
			For 100 PSI, Deduct	-115.42	
33 42 11 00-0097	LF		84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	705.70	131.28
			For >1,000, Deduct	-35.29	
			For 100 PSI, Deduct	-129.54	
33 42 11 00-0098	LF		90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	870.45	153.25
			For >1,000, Deduct	-43.52	
			For 100 PSI, Deduct	-162.69	
33 42 11 00-0099	LF		96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,023.58	175.00
			For >1,000, Deduct	-51.18	
			For 100 PSI, Deduct	-193.39	
33 42 11 00-0100	LF		102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,193.24	190.64
			For >1,000, Deduct	-59.66	
			For 100 PSI, Deduct	-230.22	
33 42 11 00-0101	LF		108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,345.16	202.45
			For >1,000, Deduct	-67.26	
			For 100 PSI, Deduct	-263.99	
33 42 11 00-0102	LF		114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,619.88	214.26
			For >1,000, Deduct	-80.99	
			For 100 PSI, Deduct	-328.45	
33 42 11 00-0103	LF		120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,880.89	225.07
			For >1,000, Deduct	-94.04	
			For 100 PSI, Deduct	-389.84	
33 42 11 00-0104	LF		126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,048.58	235.87
			For >1,000, Deduct	-102.43	
			For 100 PSI, Deduct	-427.91	
33 42 11 00-0105	LF		132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,218.73	246.68
			For >1,000, Deduct	-110.94	
			For 100 PSI, Deduct	-466.58	
33 42 11 00-0106	LF		138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,387.65	257.49
			For >1,000, Deduct	-119.38	
			For 100 PSI, Deduct	-504.95	
33 42 11 00-0107	LF		144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,556.58	268.30
			For >1,000, Deduct	-127.83	
			For 100 PSI, Deduct	-543.32	
33 42 11 00-0108			150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets <small>(33 42 11 00-0081)</small>		
33 42 11 00-0109	EA		12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	402.55	138.65
33 42 11 00-0110	EA		15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	558.23	198.08



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0111 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	719.74	264.10
33 42 11 00-0112 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	881.27	330.13
33 42 11 00-0113 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,071.82	410.24
33 42 11 00-0114 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,370.29	550.22
33 42 11 00-0115 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,706.02	656.69
33 42 11 00-0116 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,987.18	766.45
33 42 11 00-0117 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,239.84	875.27
33 42 11 00-0118 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,758.61	1,092.91
33 42 11 00-0119 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,657.54	1,500.35
33 42 11 00-0120 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,080.51	1,661.10
33 42 11 00-0121 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,503.49	1,821.85
33 42 11 00-0122 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,392.59	2,089.78
33 42 11 00-0123 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,275.77	2,357.70
33 42 11 00-0124 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,416.70	2,679.20
33 42 11 00-0125 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,551.72	3,000.71
33 42 11 00-0126 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,422.39	3,832.81
33 42 11 00-0127 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,198.92	4,599.38
33 42 11 00-0128 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,490.27	6,132.51
33 42 11 00-0129 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,709.07	7,665.63
33 42 11 00-0130 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,538.48	8,267.93
33 42 11 00-0131 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,371.96	8,870.22
33 42 11 00-0132 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	36,533.76	9,472.53
33 42 11 00-0133 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	34,095.22	10,074.83
33 42 11 00-0134 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33		
<small>42 11 00-0081)</small>		
33 42 11 00-0135 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	377.50	138.65
33 42 11 00-0136 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	525.81	198.08
33 42 11 00-0137 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	681.44	264.10
33 42 11 00-0138 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	837.07	330.13
33 42 11 00-0139 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,021.73	410.24
33 42 11 00-0140 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,301.53	513.24
33 42 11 00-0141 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,627.44	656.69
33 42 11 00-0142 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,896.32	766.45
33 42 11 00-0143 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,142.11	875.27
33 42 11 00-0144 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,615.91	1,092.91
33 42 11 00-0145 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,525.25	1,500.35
33 42 11 00-0146 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,938.64	1,661.10
33 42 11 00-0147 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,352.04	1,821.85
33 42 11 00-0148 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,039.05	2,089.78
33 42 11 00-0149 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,720.15	2,357.70
33 42 11 00-0150 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,715.50	2,679.20
33 42 11 00-0151 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,704.94	3,000.71
33 42 11 00-0152 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,011.17	3,750.88
33 42 11 00-0153 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,550.99	4,599.38
33 42 11 00-0154 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,441.40	6,132.51
33 42 11 00-0155 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,259.26	7,665.63
33 42 11 00-0156 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,549.28	8,267.93
33 42 11 00-0157 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,843.37	10,074.83
33 42 11 00-0158 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,144.42	9,472.53
33 42 11 00-0159 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,741.57	10,074.83
33 42 11 00-0160 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0080)		
33 42 11 00-0161 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11		
<small>00-0160)</small>		
Note: AWWA C301		
33 42 11 00-0162 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	220.64	41.28
For >1,000, Deduct	-11.03	
33 42 11 00-0163 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	268.40	46.91
For >1,000, Deduct	-13.42	
33 42 11 00-0164 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	312.75	51.59
For >1,000, Deduct	-15.64	
33 42 11 00-0165 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular		
Joints (33 42 11 00-0160)		
Note: AWWA C301		
33 42 11 00-0166 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	419.79	57.41
For >1,000, Deduct	-20.99	
33 42 11 00-0167 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	504.96	75.02
For >1,000, Deduct	-25.25	
33 42 11 00-0168 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	582.21	87.02
For >1,000, Deduct	-29.11	
33 42 11 00-0169 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	655.18	96.46
For >1,000, Deduct	-32.76	
33 42 11 00-0170 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	791.86	105.03
For >1,000, Deduct	-39.59	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0171	Welded Joints For Prestressed Concrete Cylinder Pipe <small>(33 42 11 00-0160)</small>	
	Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.	
33 42 11 00-0172	EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,501.43
33 42 11 00-0173	EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,612.65
33 42 11 00-0174	EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,668.26
33 42 11 00-0175	EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,890.69
33 42 11 00-0176	EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	1,946.30
33 42 11 00-0177	EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,057.52
33 42 11 00-0178	EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,113.12
33 42 11 00-0179	EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,168.73
33 42 11 00-0180	EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,780.43
33 42 11 00-0181	EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,780.43
33 42 11 00-0182	EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,169.69
33 42 11 00-0183	EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,169.69
33 42 11 00-0184	EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,392.12
33 42 11 00-0185	EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,392.12
33 42 11 00-0186	EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,670.16
33 42 11 00-0187	EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,670.16
33 42 11 00-0188	Quick Test Joints <small>(33 42 11 00-0160)</small>	
33 42 11 00-0189	EA 30" Quick Test Joint.....	500.93
33 42 11 00-0190	EA 36" Quick Test Joint.....	505.63
33 42 11 00-0191	EA 42" Quick Test Joint.....	510.32
33 42 11 00-0192	EA 48" Quick Test Joint.....	520.88
33 42 11 00-0193	EA 54" Quick Test Joint.....	546.73
33 42 11 00-0194	EA 60" Quick Test Joint.....	567.21
33 42 11 00-0195	EA 66" Quick Test Joint.....	597.47
33 42 11 00-0196	EA 72" Quick Test Joint.....	627.73
33 42 11 00-0197	Harnessed Joints <small>(33 42 11 00-0160)</small>	
33 42 11 00-0198	Harness Clamp Restrained Joints <small>(33 42 11 00-0197)</small>	
33 42 11 00-0199	EA 30" Harness Clamp Restrained Joint.....	2,881.37
33 42 11 00-0200	EA 36" Harness Clamp Restrained Joint.....	2,994.00
33 42 11 00-0201	EA 42" Harness Clamp Restrained Joint.....	3,106.63
33 42 11 00-0202	EA 48" Harness Clamp Restrained Joint.....	3,219.25
33 42 11 00-0203	EA 54" Harness Clamp Restrained Joint.....	3,345.23
33 42 11 00-0204	EA 60" Harness Clamp Restrained Joint.....	3,517.85
33 42 11 00-0205	EA 66" Harness Clamp Restrained Joint.....	3,636.51
33 42 11 00-0206	EA 72" Harness Clamp Restrained Joint.....	3,895.48
33 42 11 00-0207	Snap Ring Restrained Joints <small>(33 42 11 00-0197)</small>	
33 42 11 00-0208	EA 30" Snap Ring Restrained Joint.....	506.78
33 42 11 00-0209	EA 36" Snap Ring Restrained Joint.....	576.24
33 42 11 00-0210	EA 42" Snap Ring Restrained Joint.....	764.42
33 42 11 00-0211	EA 48" Snap Ring Restrained Joint.....	866.26
33 42 11 00-0212	EA 54" Snap Ring Restrained Joint.....	981.44
33 42 11 00-0213	EA 60" Snap Ring Restrained Joint.....	1,110.89
33 42 11 00-0214	EA 66" Snap Ring Restrained Joint.....	1,229.54
33 42 11 00-0215	EA 72" Snap Ring Restrained Joint.....	1,369.79
33 42 11 00-0216	Pipe Repairs <small>(33 42 11 00-0160)</small>	
	Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD sleeve, 20' pipe.	
33 42 11 00-0217	Lined Cylinder Pipe Repair <small>(33 42 11 00-0216)</small>	
33 42 11 00-0218	EA 30" Lined Cylinder Pipe Repair.....	6,855.77
33 42 11 00-0219	EA 36" Lined Cylinder Pipe Repair.....	8,513.13
33 42 11 00-0220	EA 42" Lined Cylinder Pipe Repair.....	8,512.86
33 42 11 00-0221	Embedded Cylinder Pipe Repair <small>(33 42 11 00-0216)</small>	
	Note: Field welded concrete enclosure assembly with concrete pipe.	
33 42 11 00-0222	EA 48" Embedded Cylinder Pipe Repair.....	12,620.57
33 42 11 00-0223	EA 54" Embedded Cylinder Pipe Repair.....	14,648.25
33 42 11 00-0224	EA 60" Embedded Cylinder Pipe Repair.....	16,691.63
33 42 11 00-0225	EA 66" Embedded Cylinder Pipe Repair.....	18,857.30
33 42 11 00-0226	EA 72" Embedded Cylinder Pipe Repair.....	22,651.71
33 42 11 00-0227	High Density Polyethylene (HDPE) Drainage Piping <small>(33 42 11)</small>	
33 42 11 00-0228	Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0227)</small>	
	Note: Excludes couplings and gaskets.	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0229 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0228)</small>		
33 42 11 00-0230 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	13.86	6.20
For <100, Add	2.48	
For >1,000, Deduct	-1.31	
33 42 11 00-0231 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.16	7.20
For <100, Add	2.88	
For >1,000, Deduct	-1.63	
33 42 11 00-0232 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	22.37	8.38
For <100, Add	3.35	
For >1,000, Deduct	-1.96	
33 42 11 00-0233 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	25.44	8.68
For <100, Add	3.47	
For >1,000, Deduct	-2.14	
33 42 11 00-0234 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.75	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.24	
33 42 11 00-0235 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	30.39	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.45	
33 42 11 00-0236 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	36.86	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.81	
33 42 11 00-0237 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	50.58	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.66	
33 42 11 00-0238 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	71.77	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.11	
33 42 11 00-0239 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	94.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.64	
33 42 11 00-0240 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0240)</small>		
33 42 11 00-0241 LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	26.60	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.23	
33 42 11 00-0242 LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	31.01	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.48	
33 42 11 00-0243 LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	37.79	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.85	
33 42 11 00-0244 LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	52.05	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.73	
33 42 11 00-0245 LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	75.80	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.31	
33 42 11 00-0246 LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	97.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.79	
33 42 11 00-0247 LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	126.97	20.96
For <100, Add	8.38	
For >1,000, Deduct	-8.44	
33 42 11 00-0248 LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	138.45	23.64
For <100, Add	9.46	
For >1,000, Deduct	-9.29	
33 42 11 00-0249 Perforated, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0227)</small>		
Note: Excludes couplings and gaskets.		
33 42 11 00-0250 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping <small>(33 42 11 00-0249)</small>		
33 42 11 00-0251 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.64	6.20
For <100, Add	2.48	
For >1,000, Deduct	-1.35	
33 42 11 00-0252 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	18.18	7.20
For <100, Add	2.88	
For >1,000, Deduct	-1.63	
33 42 11 00-0253 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.37	8.38
For <100, Add	3.35	
For >1,000, Deduct	-1.96	
33 42 11 00-0254 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	25.47	8.68
For <100, Add	3.47	
For >1,000, Deduct	-2.14	
33 42 11 00-0255 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.75	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.24	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0256 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	30.42	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.45	
33 42 11 00-0257 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.89	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.81	
33 42 11 00-0258 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	50.58	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.66	
33 42 11 00-0259 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	72.02	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.12	
33 42 11 00-0260 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	94.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.64	
33 42 11 00-0261 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)		
33 42 11 00-0262 LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.62	8.98
For <100, Add	3.59	
For >1,000, Deduct	-2.23	
33 42 11 00-0263 LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.04	9.30
For <100, Add	3.72	
For >1,000, Deduct	-2.48	
33 42 11 00-0264 LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	37.82	9.63
For <100, Add	3.86	
For >1,000, Deduct	-2.86	
33 42 11 00-0265 LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.05	11.29
For <100, Add	4.52	
For >1,000, Deduct	-3.73	
33 42 11 00-0266 LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	75.80	15.20
For <100, Add	6.08	
For >1,000, Deduct	-5.31	
33 42 11 00-0267 LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	97.34	19.21
For <100, Add	7.68	
For >1,000, Deduct	-6.79	
33 42 11 00-0268 LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	126.97	20.96
For <100, Add	8.38	
For >1,000, Deduct	-8.44	
33 42 11 00-0269 LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	138.45	23.64
For <100, Add	9.46	
For >1,000, Deduct	-9.29	
33 42 11 00-0270 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227) Note: Excludes couplings and gaskets.		
33 42 11 00-0271 Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0272 EA 4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	60.42	24.48
33 42 11 00-0273 EA 6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	75.30	28.56
33 42 11 00-0274 EA 8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	118.40	34.68
33 42 11 00-0275 EA 10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	177.79	42.84
33 42 11 00-0276 EA 12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	275.89	51.01
33 42 11 00-0277 EA 15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	387.90	66.64
33 42 11 00-0278 EA 18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	556.14	89.76
33 42 11 00-0279 EA 24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	709.13	102.46
33 42 11 00-0280 EA 30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,222.34	118.33
33 42 11 00-0281 EA 36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,565.62	136.68
33 42 11 00-0282 EA 42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,588.42	163.20
33 42 11 00-0283 EA 48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	3,245.83	193.81
33 42 11 00-0284 Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0285 EA 4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	85.36	24.48
33 42 11 00-0286 EA 6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	102.68	28.56
33 42 11 00-0287 EA 8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	135.68	34.68
33 42 11 00-0288 EA 10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	196.84	42.84
33 42 11 00-0289 EA 12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	337.17	51.01
33 42 11 00-0290 EA 15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	369.09	66.64
33 42 11 00-0291 EA 18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	519.57	89.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 11 00-0292

22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)

33 42 11 00-0293	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	37.15	16.32
33 42 11 00-0294	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	45.53	19.04
33 42 11 00-0295	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	65.10	23.12
33 42 11 00-0296	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	81.77	28.56
33 42 11 00-0297	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	116.52	34.00
33 42 11 00-0298	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	181.17	43.52
33 42 11 00-0299	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	240.73	59.84
33 42 11 00-0300	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	443.83	68.00
33 42 11 00-0301	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	612.23	78.88
33 42 11 00-0302	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	717.08	91.12
33 42 11 00-0303	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	914.23	108.80
33 42 11 00-0304	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,230.81	129.20

33 42 11 00-0305

45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)

33 42 11 00-0306	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	39.88	16.32
33 42 11 00-0307	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	51.22	19.04
33 42 11 00-0308	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	68.00	23.12
33 42 11 00-0309	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	105.39	28.56
33 42 11 00-0310	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	116.52	34.00
33 42 11 00-0311	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	180.70	43.52
33 42 11 00-0312	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	278.81	59.84
33 42 11 00-0313	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	473.25	68.00
33 42 11 00-0314	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	613.63	78.88
33 42 11 00-0315	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	780.49	91.12
33 42 11 00-0316	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,158.96	108.80
33 42 11 00-0317	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)	1,450.16	129.20

33 42 11 00-0318

Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227)

Note: For single and double wall high density polyethylene (HDPE) piping.

33 42 11 00-0319

Couplings, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)

33 42 11 00-0320	EA	4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	1.63	
33 42 11 00-0321	EA	6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.92	
33 42 11 00-0322	EA	8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.50	
33 42 11 00-0323	EA	10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.53	
33 42 11 00-0324	EA	12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	5.95	
33 42 11 00-0325	EA	15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	8.47	
33 42 11 00-0326	EA	18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	12.52	
33 42 11 00-0327	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	19.94	
33 42 11 00-0328	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	30.61	
33 42 11 00-0329	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	40.06	
33 42 11 00-0330	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	62.97	
33 42 11 00-0331	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	85.17	

33 42 11 00-0332

Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)

33 42 11 00-0333	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	86.24	
33 42 11 00-0334	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	90.29	
33 42 11 00-0335	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	94.54	
33 42 11 00-0336	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	98.99	
33 42 11 00-0337	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	117.41	
33 42 11 00-0338	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	121.22	
33 42 11 00-0339	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	126.43	
33 42 11 00-0340	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	144.01	
33 42 11 00-0341	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	230.86	
33 42 11 00-0342	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	252.86	
33 42 11 00-0343	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	275.52	
33 42 11 00-0344	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe	334.62	

33 42 11 00-0345

End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)

33 42 11 00-0346	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	28.71	
33 42 11 00-0347	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	33.51	
33 42 11 00-0348	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	53.18	
33 42 11 00-0349	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	89.13	
33 42 11 00-0350	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	103.50	
33 42 11 00-0351	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	139.27	
33 42 11 00-0352	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	144.60	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0353 Vitrified Clay Piping <small>(33 42 11)</small>		
33 42 11 00-0354 Extra Strength Vitrified Clay Piping <small>(33 42 11 00-0353)</small>		
33 42 11 00-0355 Plain Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0354)</small>		
Note: ASTM C700.		
33 42 11 00-0356 LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	22.06	
For 3' Lengths, Add	2.16	
For 2' Lengths, Add	2.88	
For Standard Strength, Deduct	-0.72	
For >1,000, Deduct	-1.10	
33 42 11 00-0357 LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	36.52	
For 3' Lengths, Add	3.36	
For 2' Lengths, Add	4.48	
For Standard Strength, Deduct	-1.12	
For >1,000, Deduct	-1.83	
33 42 11 00-0358 LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	44.14	
For 3' Lengths, Add	4.80	
For 2' Lengths, Add	6.40	
For Standard Strength, Deduct	-1.60	
For >1,000, Deduct	-2.21	
33 42 11 00-0359 LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	54.27	
For 3' Lengths, Add	7.35	
For 2' Lengths, Add	9.80	
For Standard Strength, Deduct	-2.45	
For >1,000, Deduct	-2.71	
33 42 11 00-0360 LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	67.08	
For 3' Lengths, Add	10.38	
For 2' Lengths, Add	13.84	
For Standard Strength, Deduct	-3.46	
For >1,000, Deduct	-3.35	
33 42 11 00-0361 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	101.01	
For 3' Lengths, Add	19.47	
For 2' Lengths, Add	25.96	
For Standard Strength, Deduct	-6.49	
For >1,000, Deduct	-5.05	
33 42 11 00-0362 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	138.05	
For 3' Lengths, Add	27.90	
For 2' Lengths, Add	37.20	
For Standard Strength, Deduct	-9.30	
For >1,000, Deduct	-6.90	
33 42 11 00-0363 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	205.81	
For 3' Lengths, Add	44.70	
For 2' Lengths, Add	59.60	
For Standard Strength, Deduct	-14.90	
For >1,000, Deduct	-10.29	
33 42 11 00-0364 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	263.64	
For 3' Lengths, Add	58.40	
For 2' Lengths, Add	77.86	
For Standard Strength, Deduct	-19.47	
For >1,000, Deduct	-13.18	
33 42 11 00-0365 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	326.48	
For 3' Lengths, Add	72.82	
For 2' Lengths, Add	97.09	
For Standard Strength, Deduct	-24.27	
For >1,000, Deduct	-16.32	
33 42 11 00-0366 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	394.91	
For 3' Lengths, Add	87.96	
For 2' Lengths, Add	117.28	
For Standard Strength, Deduct	-29.32	
For >1,000, Deduct	-19.75	
33 42 11 00-0367 Compression Joint, Extra Strength, Vitrified Clay Piping <small>(33 42 11 00-0354)</small>		
Note: ASTM C425.		
33 42 11 00-0368 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	31.01	
For 3' Lengths, Add	2.55	
For 2' Lengths, Add	3.40	
For Standard Strength, Deduct	-0.85	
For >1,000, Deduct	-1.55	
33 42 11 00-0369 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	39.21	
For 3' Lengths, Add	4.17	
For 2' Lengths, Add	5.56	
For Standard Strength, Deduct	-1.39	
For >1,000, Deduct	-1.96	
33 42 11 00-0370 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	47.74	
For 3' Lengths, Add	5.88	
For 2' Lengths, Add	7.84	
For Standard Strength, Deduct	-1.96	
For >1,000, Deduct	-2.39	
33 42 11 00-0371 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	61.96	
For 3' Lengths, Add	9.66	
For 2' Lengths, Add	12.88	
For Standard Strength, Deduct	-3.22	
For >1,000, Deduct	-3.10	



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Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0372 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	74.77	
For 3' Lengths, Add	12.69	
For 2' Lengths, Add	16.92	
For Standard Strength, Deduct	-4.23	
For >1,000, Deduct	-3.74	
33 42 11 00-0373 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	113.26	
For 3' Lengths, Add	23.14	
For 2' Lengths, Add	30.86	
For Standard Strength, Deduct	-7.71	
For >1,000, Deduct	-5.66	
33 42 11 00-0374 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	158.00	
For 3' Lengths, Add	33.89	
For 2' Lengths, Add	45.18	
For Standard Strength, Deduct	-11.30	
For >1,000, Deduct	-7.90	
33 42 11 00-0375 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	228.64	
For 3' Lengths, Add	51.55	
For 2' Lengths, Add	68.73	
For Standard Strength, Deduct	-17.18	
For >1,000, Deduct	-11.43	
33 42 11 00-0376 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	299.69	
For 3' Lengths, Add	69.21	
For 2' Lengths, Add	92.28	
For Standard Strength, Deduct	-23.07	
For >1,000, Deduct	-14.98	
33 42 11 00-0377 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	485.09	
For 3' Lengths, Add	120.40	
For 2' Lengths, Add	160.53	
For Standard Strength, Deduct	-40.13	
For >1,000, Deduct	-24.25	
33 42 11 00-0378 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	692.91	
For 3' Lengths, Add	177.36	
For 2' Lengths, Add	236.48	
For Standard Strength, Deduct	-59.12	
For >1,000, Deduct	-34.65	
33 42 11 00-0379 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0353)		
33 42 11 00-0380 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0381 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0380)		
33 42 11 00-0382 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	96.01	
33 42 11 00-0383 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	131.02	
33 42 11 00-0384 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	190.19	
33 42 11 00-0385 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	266.21	
33 42 11 00-0386 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	354.31	
33 42 11 00-0387 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	865.32	
33 42 11 00-0388 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,223.19	
33 42 11 00-0389 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,914.71	
33 42 11 00-0390 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,208.28	
33 42 11 00-0391 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,561.60	
33 42 11 00-0392 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,858.35	
33 42 11 00-0393 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0380)		
33 42 11 00-0394 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	107.89	
33 42 11 00-0395 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	155.86	
33 42 11 00-0396 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	213.62	
33 42 11 00-0397 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	291.52	
33 42 11 00-0398 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	372.30	
33 42 11 00-0399 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	969.40	
33 42 11 00-0400 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,414.43	
33 42 11 00-0401 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,448.33	
33 42 11 00-0402 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,830.55	
33 42 11 00-0403 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,147.27	
33 42 11 00-0404 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,691.61	
33 42 11 00-0405 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0406 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405)		
33 42 11 00-0407 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	110.86	
33 42 11 00-0408 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	148.91	
33 42 11 00-0409 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	211.11	
33 42 11 00-0410 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	289.26	
33 42 11 00-0411 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	380.29	
33 42 11 00-0412 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	894.21	
33 42 11 00-0413 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,259.22	
33 42 11 00-0414 EA 21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,960.17	
33 42 11 00-0415 EA 24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,263.48	
33 42 11 00-0416 EA 30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,630.42	
33 42 11 00-0417 EA 36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	3,934.86	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0418 Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay <small>(33 42 11 00-0405)</small>		
33 42 11 00-0419 EA 4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	125.71	
33 42 11 00-0420 EA 6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	177.32	
33 42 11 00-0421 EA 8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	238.73	
33 42 11 00-0422 EA 10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	319.17	
33 42 11 00-0423 EA 12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	403.46	
33 42 11 00-0424 EA 15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,004.07	
33 42 11 00-0425 EA 18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,457.68	
33 42 11 00-0426 EA 21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,850.03	
33 42 11 00-0427 EA 24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,896.78	
33 42 11 00-0428 EA 30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	3,229.87	
33 42 11 00-0429 EA 36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	4,783.41	
33 42 11 00-0430 Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0379)</small>		
33 42 11 00-0431 Plain End Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0430)</small>		
33 42 11 00-0432 EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	120.00	
33 42 11 00-0433 EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	158.17	
33 42 11 00-0434 EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	218.39	
33 42 11 00-0435 EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	295.35	
33 42 11 00-0436 EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	376.31	
33 42 11 00-0437 EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	898.06	
33 42 11 00-0438 EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,260.81	
33 42 11 00-0439 EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,827.78	
33 42 11 00-0440 EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,550.94	
33 42 11 00-0441 EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,690.22	
33 42 11 00-0442 EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,889.84	
33 42 11 00-0443 Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay <small>(33 42 11 00-0430)</small>		
33 42 11 00-0444 EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	146.93	
33 42 11 00-0445 EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	204.50	
33 42 11 00-0446 EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	272.50	
33 42 11 00-0447 EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	359.88	
33 42 11 00-0448 EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	452.05	
33 42 11 00-0449 EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,092.84	
33 42 11 00-0450 EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,581.21	
33 42 11 00-0451 EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,356.41	
33 42 11 00-0452 EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,127.49	
33 42 11 00-0453 EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,612.16	
33 42 11 00-0454 EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	5,151.23	
33 42 11 00-0455 Corrugated Metal Piping <small>(33 42 11)</small>		
33 42 11 00-0456 Galvanized Corrugated Steel Piping <small>(33 42 11 00-0455)</small>		
33 42 11 00-0457 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0456)</small>		
33 42 11 00-0458 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0457)</small>		
33 42 11 00-0459 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	31.23	9.24
For Bituminous Coated Pipe, Add	2.91	
For Bituminous Coated And 25% Paved, Add	5.95	
For Smooth-Flo, Add	10.63	
33 42 11 00-0460 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	35.01	9.68
For Bituminous Coated Pipe, Add	3.66	
For Bituminous Coated And 25% Paved, Add	7.49	
For Smooth-Flo, Add	13.37	
33 42 11 00-0461 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	38.95	10.57
For Bituminous Coated Pipe, Add	4.44	
For Bituminous Coated And 25% Paved, Add	9.08	
For Smooth-Flo, Add	16.21	
33 42 11 00-0462 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	44.17	11.45
For Bituminous Coated Pipe, Add	5.31	
For Bituminous Coated And 25% Paved, Add	10.86	
For Smooth-Flo, Add	19.39	
33 42 11 00-0463 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	48.83	12.33
For Bituminous Coated Pipe, Add	5.97	
For Bituminous Coated And 25% Paved, Add	12.22	
For Smooth-Flo, Add	21.82	
33 42 11 00-0464 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	64.52	15.84
For Bituminous Coated Pipe, Add	7.75	
For Bituminous Coated And 25% Paved, Add	15.85	
For Smooth-Flo, Add	28.31	
33 42 11 00-0465 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	84.17	20.64
For Bituminous Coated Pipe, Add	9.77	
For Bituminous Coated And 25% Paved, Add	19.99	
For Smooth-Flo, Add	35.70	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0466 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	95.55	24.39
For Bituminous Coated Pipe, Add	11.57	
For Bituminous Coated And 25% Paved, Add	23.66	
For Smooth-Flo, Add	42.25	
33 42 11 00-0467 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	107.41	28.14
For Bituminous Coated Pipe, Add	12.95	
For Bituminous Coated And 25% Paved, Add	26.50	
For Smooth-Flo, Add	47.32	
33 42 11 00-0468 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
<small>42 11 00-0457)</small>		
33 42 11 00-0469 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	33.83	9.24
For Bituminous Coated Pipe, Add	2.95	
For Bituminous Coated And 25% Paved, Add	6.84	
For Smooth-Flo, Add	13.83	
33 42 11 00-0470 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	38.22	9.68
For Bituminous Coated Pipe, Add	3.70	
For Bituminous Coated And 25% Paved, Add	8.58	
For Smooth-Flo, Add	17.35	
33 42 11 00-0471 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	42.81	10.57
For Bituminous Coated Pipe, Add	4.48	
For Bituminous Coated And 25% Paved, Add	10.39	
For Smooth-Flo, Add	21.00	
33 42 11 00-0472 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	48.64	11.45
For Bituminous Coated Pipe, Add	5.33	
For Bituminous Coated And 25% Paved, Add	12.36	
For Smooth-Flo, Add	24.97	
33 42 11 00-0473 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.02	12.33
For Bituminous Coated Pipe, Add	6.03	
For Bituminous Coated And 25% Paved, Add	13.98	
For Smooth-Flo, Add	28.26	
33 42 11 00-0474 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	70.86	15.84
For Bituminous Coated Pipe, Add	7.75	
For Bituminous Coated And 25% Paved, Add	17.95	
For Smooth-Flo, Add	36.29	
33 42 11 00-0475 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	91.87	20.64
For Bituminous Coated Pipe, Add	9.71	
For Bituminous Coated And 25% Paved, Add	22.51	
For Smooth-Flo, Add	45.49	
33 42 11 00-0476 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	104.37	24.39
For Bituminous Coated Pipe, Add	11.44	
For Bituminous Coated And 25% Paved, Add	26.49	
For Smooth-Flo, Add	53.55	
33 42 11 00-0477 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	117.50	28.14
For Bituminous Coated Pipe, Add	12.85	
For Bituminous Coated And 25% Paved, Add	29.77	
For Smooth-Flo, Add	60.18	
33 42 11 00-0478 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	140.05	31.89
For Bituminous Coated Pipe, Add	15.80	
For Bituminous Coated And 25% Paved, Add	36.62	
For Smooth-Flo, Add	74.02	
33 42 11 00-0479 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾		
<small>42 11 00-0457)</small>		
33 42 11 00-0480 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	50.82	10.57
For Bituminous Coated Pipe, Add	5.14	
For Bituminous Coated And 25% Paved, Add	9.27	
For Smooth-Flo, Add	17.82	
33 42 11 00-0481 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.94	11.45
For Bituminous Coated Pipe, Add	6.07	
For Bituminous Coated And 25% Paved, Add	10.96	
For Smooth-Flo, Add	21.06	
33 42 11 00-0482 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	64.63	11.45
For Bituminous Coated Pipe, Add	6.88	
For Bituminous Coated And 25% Paved, Add	12.43	
For Smooth-Flo, Add	23.88	
33 42 11 00-0483 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	83.97	15.84
For Bituminous Coated Pipe, Add	8.75	
For Bituminous Coated And 25% Paved, Add	15.80	
For Smooth-Flo, Add	30.37	
33 42 11 00-0484 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	107.43	20.64
For Bituminous Coated Pipe, Add	10.82	
For Bituminous Coated And 25% Paved, Add	19.54	
For Smooth-Flo, Add	37.55	
33 42 11 00-0485 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	122.34	24.39
For Bituminous Coated Pipe, Add	12.68	
For Bituminous Coated And 25% Paved, Add	22.90	
For Smooth-Flo, Add	44.00	
33 42 11 00-0486 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	138.10	28.14
For Bituminous Coated Pipe, Add	14.32	
For Bituminous Coated And 25% Paved, Add	25.86	
For Smooth-Flo, Add	49.69	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0487 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	162.79	31.89
For Bituminous Coated Pipe, Add	17.17	
For Bituminous Coated And 25% Paved, Add	31.00	
For Smooth-Flo, Add	59.58	
33 42 11 00-0488 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	177.94	33.77
For Bituminous Coated Pipe, Add	18.80	
For Bituminous Coated And 25% Paved, Add	33.95	
For Smooth-Flo, Add	65.25	
33 42 11 00-0489 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	215.45	41.28
For Bituminous Coated Pipe, Add	22.89	
For Bituminous Coated And 25% Paved, Add	41.33	
For Smooth-Flo, Add	79.43	
33 42 11 00-0490 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
^{42 11 00-0457}		
33 42 11 00-0491 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	121.99	20.64
For Bituminous Coated Pipe, Add	13.76	
For Bituminous Coated And 25% Paved, Add	22.99	
For Smooth-Flo, Add	32.81	
33 42 11 00-0492 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	139.38	24.39
For Bituminous Coated Pipe, Add	16.13	
For Bituminous Coated And 25% Paved, Add	26.94	
For Smooth-Flo, Add	38.43	
33 42 11 00-0493 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	157.43	28.14
For Bituminous Coated Pipe, Add	18.22	
For Bituminous Coated And 25% Paved, Add	30.44	
For Smooth-Flo, Add	43.44	
33 42 11 00-0494 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	184.45	31.89
For Bituminous Coated Pipe, Add	21.58	
For Bituminous Coated And 25% Paved, Add	36.06	
For Smooth-Flo, Add	51.45	
33 42 11 00-0495 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	202.04	33.77
For Bituminous Coated Pipe, Add	23.71	
For Bituminous Coated And 25% Paved, Add	39.60	
For Smooth-Flo, Add	56.50	
33 42 11 00-0496 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	241.94	41.28
For Bituminous Coated Pipe, Add	28.36	
For Bituminous Coated And 25% Paved, Add	47.37	
For Smooth-Flo, Add	67.59	
33 42 11 00-0497 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	292.40	60.04
For Bituminous Coated Pipe, Add	30.45	
For Bituminous Coated And 25% Paved, Add	50.86	
For Smooth-Flo, Add	72.57	
33 42 11 00-0498 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0456)		
33 42 11 00-0499 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping ^(33 42 11 00-0498)		
33 42 11 00-0500 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	97.52	20.64
For Bituminous Coated Pipe, Add	10.75	
For Bituminous Coated And 25% Paved, Add	24.40	
For Smooth-Flo, Add	48.58	
33 42 11 00-0501 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	110.86	24.39
For Bituminous Coated Pipe, Add	12.62	
For Bituminous Coated And 25% Paved, Add	28.65	
For Smooth-Flo, Add	57.04	
33 42 11 00-0502 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	124.66	28.14
For Bituminous Coated Pipe, Add	14.16	
For Bituminous Coated And 25% Paved, Add	32.13	
For Smooth-Flo, Add	63.99	
33 42 11 00-0503 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	148.26	31.89
For Bituminous Coated Pipe, Add	17.29	
For Bituminous Coated And 25% Paved, Add	39.25	
For Smooth-Flo, Add	78.15	
33 42 11 00-0504 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	161.54	33.77
For Bituminous Coated Pipe, Add	18.84	
For Bituminous Coated And 25% Paved, Add	42.76	
For Smooth-Flo, Add	85.15	
33 42 11 00-0505 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	201.80	41.28
For Bituminous Coated Pipe, Add	24.20	
For Bituminous Coated And 25% Paved, Add	54.92	
For Smooth-Flo, Add	109.37	
33 42 11 00-0506 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	248.35	60.04
For Bituminous Coated Pipe, Add	25.79	
For Bituminous Coated And 25% Paved, Add	58.54	
For Smooth-Flo, Add	116.57	
33 42 11 00-0507 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	268.29	65.67
For Bituminous Coated Pipe, Add	27.39	
For Bituminous Coated And 25% Paved, Add	62.18	
For Smooth-Flo, Add	123.81	
33 42 11 00-0508 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	285.68	70.36
For Bituminous Coated Pipe, Add	28.99	
For Bituminous Coated And 25% Paved, Add	65.81	
For Smooth-Flo, Add	131.04	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0509 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	303.10 30.60 69.46 138.31	75.04
33 42 11 00-0510 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	321.14 32.19 73.08 145.52	79.74
33 42 11 00-0511 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	341.85 33.81 76.74 152.81	84.43
33 42 11 00-0512 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00- 0498)		
33 42 11 00-0513 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	161.89 20.02 39.23 79.26	31.89
33 42 11 00-0514 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	176.61 21.85 42.83 86.53	33.77
33 42 11 00-0515 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	218.38 27.51 53.92 108.95	41.28
33 42 11 00-0516 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	266.42 29.40 57.63 116.44	60.04
33 42 11 00-0517 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	287.80 31.29 61.34 123.92	65.67
33 42 11 00-0518 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	306.74 33.20 65.08 131.49	70.36
33 42 11 00-0519 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	325.57 35.09 68.78 138.97	75.04
33 42 11 00-0520 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	345.10 36.99 72.49 146.46	79.74
33 42 11 00-0521 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	367.25 38.89 76.22 154.00	84.43
33 42 11 00-0522 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	391.58 40.79 79.95 161.54	93.81
33 42 11 00-0523 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	415.34 42.66 83.61 168.93	103.19
33 42 11 00-0524 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00- 0498)		
33 42 11 00-0525 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	210.05 28.54 54.37 88.62	33.77
33 42 11 00-0526 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	255.42 34.92 66.52 108.43	41.28
33 42 11 00-0527 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	306.68 37.46 71.35 116.30	60.04
33 42 11 00-0528 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	331.33 40.00 76.20 124.20	65.67
33 42 11 00-0529 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	353.50 42.56 81.07 132.14	70.36

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0530 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	375.60	75.04
For Bituminous Coated Pipe, Add	45.10	
For Bituminous Coated And 25% Paved, Add	85.92	
For Smooth-Flo, Add	140.04	
33 42 11 00-0531 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	398.41	79.74
For Bituminous Coated Pipe, Add	47.65	
For Bituminous Coated And 25% Paved, Add	90.77	
For Smooth-Flo, Add	147.95	
33 42 11 00-0532 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	423.83	84.43
For Bituminous Coated Pipe, Add	50.20	
For Bituminous Coated And 25% Paved, Add	95.64	
For Smooth-Flo, Add	155.88	
33 42 11 00-0533 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	451.36	93.81
For Bituminous Coated Pipe, Add	52.75	
For Bituminous Coated And 25% Paved, Add	100.48	
For Smooth-Flo, Add	163.78	
33 42 11 00-0534 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	478.41	103.19
For Bituminous Coated Pipe, Add	55.27	
For Bituminous Coated And 25% Paved, Add	105.29	
For Smooth-Flo, Add	171.62	
33 42 11 00-0535 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	504.45	112.58
For Bituminous Coated Pipe, Add	57.83	
For Bituminous Coated And 25% Paved, Add	110.16	
For Smooth-Flo, Add	179.56	
33 42 11 00-0536 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0498)		
33 42 11 00-0537 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	344.23	60.04
For Bituminous Coated Pipe, Add	44.97	
For Bituminous Coated And 25% Paved, Add	85.44	
For Smooth-Flo, Add	114.21	
33 42 11 00-0538 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	371.96	65.67
For Bituminous Coated Pipe, Add	48.13	
For Bituminous Coated And 25% Paved, Add	91.44	
For Smooth-Flo, Add	122.24	
33 42 11 00-0539 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	397.21	70.36
For Bituminous Coated Pipe, Add	51.30	
For Bituminous Coated And 25% Paved, Add	97.47	
For Smooth-Flo, Add	130.30	
33 42 11 00-0540 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	422.39	75.04
For Bituminous Coated Pipe, Add	54.46	
For Bituminous Coated And 25% Paved, Add	103.47	
For Smooth-Flo, Add	138.32	
33 42 11 00-0541 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	448.28	79.74
For Bituminous Coated Pipe, Add	57.62	
For Bituminous Coated And 25% Paved, Add	109.48	
For Smooth-Flo, Add	146.36	
33 42 11 00-0542 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	476.78	84.43
For Bituminous Coated Pipe, Add	60.79	
For Bituminous Coated And 25% Paved, Add	115.51	
For Smooth-Flo, Add	154.42	
33 42 11 00-0543 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	507.39	93.81
For Bituminous Coated Pipe, Add	63.95	
For Bituminous Coated And 25% Paved, Add	121.51	
For Smooth-Flo, Add	162.44	
33 42 11 00-0544 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	537.50	103.19
For Bituminous Coated Pipe, Add	67.09	
For Bituminous Coated And 25% Paved, Add	127.47	
For Smooth-Flo, Add	170.41	
33 42 11 00-0545 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	566.65	112.58
For Bituminous Coated Pipe, Add	70.27	
For Bituminous Coated And 25% Paved, Add	133.51	
For Smooth-Flo, Add	178.48	
33 42 11 00-0546 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	597.49	121.95
For Bituminous Coated Pipe, Add	73.42	
For Bituminous Coated And 25% Paved, Add	139.49	
For Smooth-Flo, Add	186.48	
33 42 11 00-0547 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	630.74	131.33
For Bituminous Coated Pipe, Add	76.59	
For Bituminous Coated And 25% Paved, Add	145.51	
For Smooth-Flo, Add	194.53	
33 42 11 00-0548 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	666.86	140.72
For Bituminous Coated Pipe, Add	79.76	
For Bituminous Coated And 25% Paved, Add	151.55	
For Smooth-Flo, Add	202.60	
33 42 11 00-0549 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0550 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0549)		



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0551 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	125.05	28.14
<i>For Bituminous Coated Pipe, Add</i>	17.79	
<i>For Bituminous Coated And 25% Paved, Add</i>	40.57	
<i>For Smooth-Flo, Add</i>	64.41	
33 42 11 00-0552 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	149.02	31.89
<i>For Bituminous Coated Pipe, Add</i>	21.80	
<i>For Bituminous Coated And 25% Paved, Add</i>	49.71	
<i>For Smooth-Flo, Add</i>	78.93	
33 42 11 00-0553 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	162.20	33.77
<i>For Bituminous Coated Pipe, Add</i>	23.71	
<i>For Bituminous Coated And 25% Paved, Add</i>	54.06	
<i>For Smooth-Flo, Add</i>	85.84	
33 42 11 00-0554 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	200.23	41.28
<i>For Bituminous Coated Pipe, Add</i>	29.85	
<i>For Bituminous Coated And 25% Paved, Add</i>	68.06	
<i>For Smooth-Flo, Add</i>	108.07	
33 42 11 00-0555 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	246.60	60.04
<i>For Bituminous Coated Pipe, Add</i>	31.80	
<i>For Bituminous Coated And 25% Paved, Add</i>	72.50	
<i>For Smooth-Flo, Add</i>	115.12	
33 42 11 00-0556 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	266.29	65.67
<i>For Bituminous Coated Pipe, Add</i>	33.74	
<i>For Bituminous Coated And 25% Paved, Add</i>	76.93	
<i>For Smooth-Flo, Add</i>	122.14	
33 42 11 00-0557 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	283.42	70.36
<i>For Bituminous Coated Pipe, Add</i>	35.68	
<i>For Bituminous Coated And 25% Paved, Add</i>	81.34	
<i>For Smooth-Flo, Add</i>	129.14	
33 42 11 00-0558 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	300.50	75.04
<i>For Bituminous Coated Pipe, Add</i>	37.60	
<i>For Bituminous Coated And 25% Paved, Add</i>	85.73	
<i>For Smooth-Flo, Add</i>	136.11	
33 42 11 00-0559 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	318.39	79.74
<i>For Bituminous Coated Pipe, Add</i>	39.56	
<i>For Bituminous Coated And 25% Paved, Add</i>	90.19	
<i>For Smooth-Flo, Add</i>	143.19	
33 42 11 00-0560 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	339.04	84.43
<i>For Bituminous Coated Pipe, Add</i>	41.56	
<i>For Bituminous Coated And 25% Paved, Add</i>	94.75	
<i>For Smooth-Flo, Add</i>	150.44	
33 42 11 00-0561 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping <small>(33 42 11 00-0549)</small>		
33 42 11 00-0562 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	166.05	31.89
<i>For Bituminous Coated Pipe, Add</i>	20.85	
<i>For Bituminous Coated And 25% Paved, Add</i>	48.99	
<i>For Smooth-Flo, Add</i>	88.71	
33 42 11 00-0563 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	181.14	33.77
<i>For Bituminous Coated Pipe, Add</i>	22.76	
<i>For Bituminous Coated And 25% Paved, Add</i>	53.48	
<i>For Smooth-Flo, Add</i>	96.84	
33 42 11 00-0564 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	220.89	41.28
<i>For Bituminous Coated Pipe, Add</i>	28.01	
<i>For Bituminous Coated And 25% Paved, Add</i>	65.83	
<i>For Smooth-Flo, Add</i>	119.20	
33 42 11 00-0565 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	268.92	60.04
<i>For Bituminous Coated Pipe, Add</i>	29.90	
<i>For Bituminous Coated And 25% Paved, Add</i>	70.27	
<i>For Smooth-Flo, Add</i>	127.24	
33 42 11 00-0566 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	290.64	65.67
<i>For Bituminous Coated Pipe, Add</i>	31.86	
<i>For Bituminous Coated And 25% Paved, Add</i>	74.88	
<i>For Smooth-Flo, Add</i>	135.57	
33 42 11 00-0567 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	309.67	70.36
<i>For Bituminous Coated Pipe, Add</i>	33.79	
<i>For Bituminous Coated And 25% Paved, Add</i>	79.41	
<i>For Smooth-Flo, Add</i>	143.78	
33 42 11 00-0568 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	327.69	75.04
<i>For Bituminous Coated Pipe, Add</i>	35.52	
<i>For Bituminous Coated And 25% Paved, Add</i>	83.47	
<i>For Smooth-Flo, Add</i>	151.13	
33 42 11 00-0569 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	348.33	79.74
<i>For Bituminous Coated Pipe, Add</i>	37.63	
<i>For Bituminous Coated And 25% Paved, Add</i>	88.44	
<i>For Smooth-Flo, Add</i>	160.12	
33 42 11 00-0570 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	370.58	84.43
<i>For Bituminous Coated Pipe, Add</i>	39.55	
<i>For Bituminous Coated And 25% Paved, Add</i>	92.95	
<i>For Smooth-Flo, Add</i>	168.30	
33 42 11 00-0571 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	394.90	93.81
<i>For Bituminous Coated Pipe, Add</i>	41.46	
<i>For Bituminous Coated And 25% Paved, Add</i>	97.42	
<i>For Smooth-Flo, Add</i>	176.40	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0572 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	419.09	103.19
For Bituminous Coated Pipe, Add	43.41	
For Bituminous Coated And 25% Paved, Add	102.01	
For Smooth-Flo, Add	184.70	
33 42 11 00-0573 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0549)		
33 42 11 00-0574 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	216.60	33.77
For Bituminous Coated Pipe, Add	29.85	
For Bituminous Coated And 25% Paved, Add	56.72	
For Smooth-Flo, Add	102.39	
33 42 11 00-0575 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	259.95	41.28
For Bituminous Coated Pipe, Add	35.83	
For Bituminous Coated And 25% Paved, Add	68.07	
For Smooth-Flo, Add	122.88	
33 42 11 00-0576 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	311.70	60.04
For Bituminous Coated Pipe, Add	38.46	
For Bituminous Coated And 25% Paved, Add	73.07	
For Smooth-Flo, Add	131.92	
33 42 11 00-0577 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	336.71	65.67
For Bituminous Coated Pipe, Add	41.08	
For Bituminous Coated And 25% Paved, Add	78.04	
For Smooth-Flo, Add	140.89	
33 42 11 00-0578 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	359.06	70.36
For Bituminous Coated Pipe, Add	43.67	
For Bituminous Coated And 25% Paved, Add	82.97	
For Smooth-Flo, Add	149.78	
33 42 11 00-0579 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	381.58	75.04
For Bituminous Coated Pipe, Add	46.30	
For Bituminous Coated And 25% Paved, Add	87.96	
For Smooth-Flo, Add	158.80	
33 42 11 00-0580 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	404.70	79.74
For Bituminous Coated Pipe, Add	48.91	
For Bituminous Coated And 25% Paved, Add	92.92	
For Smooth-Flo, Add	167.75	
33 42 11 00-0581 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	430.35	84.43
For Bituminous Coated Pipe, Add	51.51	
For Bituminous Coated And 25% Paved, Add	97.87	
For Smooth-Flo, Add	176.67	
33 42 11 00-0582 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	458.30	93.81
For Bituminous Coated Pipe, Add	54.14	
For Bituminous Coated And 25% Paved, Add	102.86	
For Smooth-Flo, Add	185.69	
33 42 11 00-0583 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	485.78	103.19
For Bituminous Coated Pipe, Add	56.75	
For Bituminous Coated And 25% Paved, Add	107.82	
For Smooth-Flo, Add	194.64	
33 42 11 00-0584 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	512.09	112.58
For Bituminous Coated Pipe, Add	59.36	
For Bituminous Coated And 25% Paved, Add	112.78	
For Smooth-Flo, Add	203.59	
33 42 11 00-0585 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
Piping (33 42 11 00-0549)		
33 42 11 00-0586 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	352.66	60.04
For Bituminous Coated Pipe, Add	46.65	
For Bituminous Coated And 25% Paved, Add	88.64	
For Smooth-Flo, Add	139.26	
33 42 11 00-0587 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	381.47	65.67
For Bituminous Coated Pipe, Add	50.03	
For Bituminous Coated And 25% Paved, Add	95.05	
For Smooth-Flo, Add	149.33	
33 42 11 00-0588 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	407.39	70.36
For Bituminous Coated Pipe, Add	53.33	
For Bituminous Coated And 25% Paved, Add	101.33	
For Smooth-Flo, Add	159.20	
33 42 11 00-0589 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	433.14	75.04
For Bituminous Coated Pipe, Add	56.61	
For Bituminous Coated And 25% Paved, Add	107.56	
For Smooth-Flo, Add	168.97	
33 42 11 00-0590 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	459.76	79.74
For Bituminous Coated Pipe, Add	59.92	
For Bituminous Coated And 25% Paved, Add	113.84	
For Smooth-Flo, Add	178.86	
33 42 11 00-0591 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	488.81	84.43
For Bituminous Coated Pipe, Add	63.20	
For Bituminous Coated And 25% Paved, Add	120.08	
For Smooth-Flo, Add	188.65	
33 42 11 00-0592 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	520.14	93.81
For Bituminous Coated Pipe, Add	66.50	
For Bituminous Coated And 25% Paved, Add	126.36	
For Smooth-Flo, Add	198.51	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0593 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	551.06	103.19
<i>For Bituminous Coated Pipe, Add</i>	69.80	
<i>For Bituminous Coated And 25% Paved, Add</i>	132.62	
<i>For Smooth-Flo, Add</i>	208.36	
33 42 11 00-0594 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	580.72	112.58
<i>For Bituminous Coated Pipe, Add</i>	73.08	
<i>For Bituminous Coated And 25% Paved, Add</i>	138.86	
<i>For Smooth-Flo, Add</i>	218.15	
33 42 11 00-0595 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	617.48	121.95
<i>For Bituminous Coated Pipe, Add</i>	77.41	
<i>For Bituminous Coated And 25% Paved, Add</i>	147.09	
<i>For Smooth-Flo, Add</i>	231.08	
33 42 11 00-0596 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	652.73	131.33
<i>For Bituminous Coated Pipe, Add</i>	80.98	
<i>For Bituminous Coated And 25% Paved, Add</i>	153.87	
<i>For Smooth-Flo, Add</i>	241.74	
33 42 11 00-0597 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	691.51	140.72
<i>For Bituminous Coated Pipe, Add</i>	84.69	
<i>For Bituminous Coated And 25% Paved, Add</i>	160.92	
<i>For Smooth-Flo, Add</i>	252.81	
33 42 11 00-0598 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0599 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)		
33 42 11 00-0600 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	44.14	10.57
<i>For Bituminous Coated Pipe, Add</i>	5.48	
33 42 11 00-0601 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	50.27	11.45
<i>For Bituminous Coated Pipe, Add</i>	6.53	
33 42 11 00-0602 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	55.99	12.33
<i>For Bituminous Coated Pipe, Add</i>	7.42	
33 42 11 00-0603 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	73.52	15.84
<i>For Bituminous Coated Pipe, Add</i>	9.56	
33 42 11 00-0604 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	95.19	20.64
<i>For Bituminous Coated Pipe, Add</i>	11.98	
33 42 11 00-0605 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	108.39	24.39
<i>For Bituminous Coated Pipe, Add</i>	14.13	
33 42 11 00-0606 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	122.12	28.14
<i>For Bituminous Coated Pipe, Add</i>	15.90	
33 42 11 00-0607 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	145.39	31.89
<i>For Bituminous Coated Pipe, Add</i>	19.47	
33 42 11 00-0608 LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	158.61	33.77
<i>For Bituminous Coated Pipe, Add</i>	21.26	
33 42 11 00-0609 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)		
33 42 11 00-0610 LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	48.07	10.57
<i>For Bituminous Coated Pipe, Add</i>	6.34	
33 42 11 00-0611 LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	54.86	11.45
<i>For Bituminous Coated Pipe, Add</i>	7.54	
33 42 11 00-0612 LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	61.21	12.33
<i>For Bituminous Coated Pipe, Add</i>	8.56	
33 42 11 00-0613 LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	80.02	15.84
<i>For Bituminous Coated Pipe, Add</i>	10.98	
33 42 11 00-0614 LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	103.02	20.64
<i>For Bituminous Coated Pipe, Add</i>	13.68	
33 42 11 00-0615 LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	117.54	24.39
<i>For Bituminous Coated Pipe, Add</i>	16.12	
33 42 11 00-0616 LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	132.57	28.14
<i>For Bituminous Coated Pipe, Add</i>	18.18	
33 42 11 00-0617 LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	157.14	31.89
<i>For Bituminous Coated Pipe, Add</i>	22.02	
33 42 11 00-0618 LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	171.69	33.77
<i>For Bituminous Coated Pipe, Add</i>	24.10	
33 42 11 00-0619 LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	210.44	41.28
<i>For Bituminous Coated Pipe, Add</i>	29.94	
33 42 11 00-0620 LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	257.90	60.04
<i>For Bituminous Coated Pipe, Add</i>	31.99	
33 42 11 00-0621 LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	278.86	65.67
<i>For Bituminous Coated Pipe, Add</i>	34.08	
33 42 11 00-0622 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)		
33 42 11 00-0623 LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	93.19	15.84
<i>For Bituminous Coated Pipe, Add</i>	11.47	
33 42 11 00-0624 LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	118.75	20.64
<i>For Bituminous Coated Pipe, Add</i>	14.17	
33 42 11 00-0625 LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	135.96	24.39
<i>For Bituminous Coated Pipe, Add</i>	16.67	
33 42 11 00-0626 LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	153.59	28.14
<i>For Bituminous Coated Pipe, Add</i>	18.85	
33 42 11 00-0627 LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	180.83	31.89
<i>For Bituminous Coated Pipe, Add</i>	22.49	

33	Utilities
33 40	Stormwater Utilities
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0628 LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	198.03 24.70	33.77
33 42 11 00-0629 LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	239.35 29.96	41.28
33 42 11 00-0630 LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	289.40 32.13	60.04
33 42 11 00-0631 LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	312.96 34.33	65.67
33 42 11 00-0632 LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	333.92 36.51	70.36
33 42 11 00-0633 LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	354.84 38.70	75.04
33 42 11 00-0634 LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	376.45 40.88	79.74
33 42 11 00-0635 LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	399.36 42.82	84.43
33 42 11 00-0636 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0637 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0636)		
33 42 11 00-0638 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	16.29 1.40	5.28
33 42 11 00-0639 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.46 1.69	5.28
33 42 11 00-0640 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	20.38 1.85	6.60
33 42 11 00-0641 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	21.86 2.22	6.60
33 42 11 00-0642 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.76 2.33	7.92
33 42 11 00-0643 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	27.64 2.79	7.92
33 42 11 00-0644 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0638)		
33 42 11 00-0645 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	16.45 1.38	5.28
33 42 11 00-0646 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	17.58 1.65	5.28
33 42 11 00-0647 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	20.54 1.82	6.60
33 42 11 00-0648 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	22.12 2.19	6.60
33 42 11 00-0649 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	26.04 2.30	7.92
33 42 11 00-0650 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	27.97 2.75	7.92
33 42 11 00-0651 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0636)		
33 42 11 00-0652 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	8.65 1.95	
33 42 11 00-0653 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	11.45 2.58	
33 42 11 00-0654 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	14.05 3.16	
33 42 11 00-0655 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	31.21 4.31	
33 42 11 00-0656 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	7.70 0.98	
33 42 11 00-0657 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i>	9.63 1.47	
33 42 11 00-0658 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0659 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0659)		
33 42 11 00-0660 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	48.41	9.24
33 42 11 00-0661 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	56.66	9.68
33 42 11 00-0662 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	65.20	10.57
33 42 11 00-0663 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	75.54	11.45
33 42 11 00-0664 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	84.18	12.33
33 42 11 00-0665 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	110.31	15.84
33 42 11 00-0666 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	141.99	20.64
33 42 11 00-0667 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	163.94	24.39
33 42 11 00-0668 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	184.03	28.14
33 42 11 00-0669 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)		
33 42 11 00-0670 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	54.73	9.24



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0671 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	64.49	9.68
33 42 11 00-0672 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	74.57	10.57
33 42 11 00-0673 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	86.40	11.45
33 42 11 00-0674 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	96.79	12.33
33 42 11 00-0675 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	125.79	15.84
33 42 11 00-0676 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	160.68	20.64
33 42 11 00-0677 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	185.39	24.39
33 42 11 00-0678 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	208.52	28.14
33 42 11 00-0679 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	252.01	31.89
33 42 11 00-0680 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42		
<small>11 00-0658)</small>		
33 42 11 00-0681 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	94.12	10.57
33 42 11 00-0682 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	109.22	11.45
33 42 11 00-0683 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	122.74	12.33
33 42 11 00-0684 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	158.21	15.84
33 42 11 00-0685 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	191.63	20.64
33 42 11 00-0686 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	230.74	24.39
33 42 11 00-0687 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	260.26	28.14
33 42 11 00-0688 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	311.05	31.89
33 42 11 00-0689 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	339.87	33.77
33 42 11 00-0690 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	416.01	41.28
33 42 11 00-0691 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42		
<small>11 00-0658)</small>		
33 42 11 00-0692 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	235.12	20.64
33 42 11 00-0693 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	272.05	24.39
33 42 11 00-0694 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	307.19	28.14
33 42 11 00-0695 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	363.62	31.89
33 42 11 00-0696 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	398.38	33.77
33 42 11 00-0697 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	480.28	41.28
33 42 11 00-0698 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	547.68	60.04
33 42 11 00-0699 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0700 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)		
33 42 11 00-0701 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	177.88	20.64
33 42 11 00-0702 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	205.32	24.39
33 42 11 00-0703 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	230.43	28.14
33 42 11 00-0704 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	278.39	31.89
33 42 11 00-0705 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	303.12	33.77
33 42 11 00-0706 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	385.25	41.28
33 42 11 00-0707 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	443.65	60.04
33 42 11 00-0708 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	475.39	65.67
33 42 11 00-0709 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	504.65	70.36
33 42 11 00-0710 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	533.93	75.04
33 42 11 00-0711 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	563.81	79.74
33 42 11 00-0712 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	596.43	84.43
33 42 11 00-0713 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)		
33 42 11 00-0714 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	312.18	31.89
33 42 11 00-0715 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	340.48	33.77
33 42 11 00-0716 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	426.40	41.28
33 42 11 00-0717 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	488.40	60.04
33 42 11 00-0718 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	523.79	65.67
33 42 11 00-0719 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	556.85	70.36
33 42 11 00-0720 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	589.68	75.04
33 42 11 00-0721 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	623.18	79.74
33 42 11 00-0722 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	659.49	84.43
33 42 11 00-0723 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	697.87	93.81
33 42 11 00-0724 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	735.43	103.19
33 42 11 00-0725 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)		
33 42 11 00-0726 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	425.46	33.77
33 42 11 00-0727 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	520.94	41.28
33 42 11 00-0728 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	591.14	60.04
33 42 11 00-0729 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	634.77	65.67
33 42 11 00-0730 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	676.02	70.36
33 42 11 00-0731 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	717.10	75.04
33 42 11 00-0732 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	758.91	79.74
33 42 11 00-0733 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	803.40	84.43
33 42 11 00-0734 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	849.91	93.81
33 42 11 00-0735 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	895.83	103.19
33 42 11 00-0736 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	940.95	112.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0737	10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0699)	
33 42 11 00-0738 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	684.75	60.04
33 42 11 00-0739 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	736.01	65.67
33 42 11 00-0740 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	784.95	70.36
33 42 11 00-0741 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	833.69	75.04
33 42 11 00-0742 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	883.20	79.74
33 42 11 00-0743 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	935.37	84.43
33 42 11 00-0744 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	989.58	93.81
33 42 11 00-0745 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,043.14	103.19
33 42 11 00-0746 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,095.94	112.58
33 42 11 00-0747 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,150.30	121.95
33 42 11 00-0748 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,207.23	131.33
33 42 11 00-0749 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,267.03	140.72
33 42 11 00-0750	125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)	
33 42 11 00-0751	16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)	
33 42 11 00-0752 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	223.14	28.14
33 42 11 00-0753 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	270.37	31.89
33 42 11 00-0754 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	293.93	33.77
33 42 11 00-0755 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	368.18	41.28
33 42 11 00-0756 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	425.18	60.04
33 42 11 00-0757 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	455.46	65.67
33 42 11 00-0758 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	483.08	70.36
33 42 11 00-0759 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	510.62	75.04
33 42 11 00-0760 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	539.12	79.74
33 42 11 00-0761 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	570.72	84.43
33 42 11 00-0762	14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)	
33 42 11 00-0763 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	310.51	31.89
33 42 11 00-0764 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	338.64	33.77
33 42 11 00-0765 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	416.94	41.28
33 42 11 00-0766 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	477.86	60.04
33 42 11 00-0767 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	512.90	65.67
33 42 11 00-0768 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	544.99	70.36
33 42 11 00-0769 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	574.78	75.04
33 42 11 00-0770 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	609.79	79.74
33 42 11 00-0771 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	645.13	84.43
33 42 11 00-0772 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	682.37	93.81
33 42 11 00-0773 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	719.83	103.19
33 42 11 00-0774	12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)	
33 42 11 00-0775 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	428.25	33.77
33 42 11 00-0776 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	516.07	41.28
33 42 11 00-0777 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	586.37	60.04
33 42 11 00-0778 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	629.64	65.67
33 42 11 00-0779 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	670.13	70.36
33 42 11 00-0780 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	711.10	75.04
33 42 11 00-0781 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	752.52	79.74
33 42 11 00-0782 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	796.38	84.43
33 42 11 00-0783 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	842.77	93.81
33 42 11 00-0784 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	888.54	103.19
33 42 11 00-0785 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	933.12	112.58
33 42 11 00-0786	10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0750)	
33 42 11 00-0787 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	684.71	60.04
33 42 11 00-0788 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	737.14	65.67
33 42 11 00-0789 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	786.25	70.36
33 42 11 00-0790 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	834.95	75.04
33 42 11 00-0791 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	884.70	79.74
33 42 11 00-0792 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	936.79	84.43
33 42 11 00-0793 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	991.22	93.81
33 42 11 00-0794 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,045.25	103.19
33 42 11 00-0795 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,097.94	112.58
33 42 11 00-0796 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,165.02	121.95
33 42 11 00-0797 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,225.32	131.33
33 42 11 00-0798 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,290.07	140.72
33 42 11 00-0799	Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0455)	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0800 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0801 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0802 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	35.89	9.68
For Bituminous Coated Pipe, Add	3.99	
For Bituminous Coated And 25% Paved, Add	9.64	
For Smooth-Flo, Add	15.90	
33 42 11 00-0803 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	39.73	10.57
For Bituminous Coated Pipe, Add	4.76	
For Bituminous Coated And 25% Paved, Add	11.51	
For Smooth-Flo, Add	18.99	
33 42 11 00-0804 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	45.26	11.45
For Bituminous Coated Pipe, Add	5.73	
For Bituminous Coated And 25% Paved, Add	13.86	
For Smooth-Flo, Add	22.86	
33 42 11 00-0805 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	50.67	12.33
For Bituminous Coated Pipe, Add	6.60	
For Bituminous Coated And 25% Paved, Add	15.97	
For Smooth-Flo, Add	26.33	
33 42 11 00-0806 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	66.18	15.84
For Bituminous Coated Pipe, Add	8.39	
For Bituminous Coated And 25% Paved, Add	20.28	
For Smooth-Flo, Add	33.44	
33 42 11 00-0807 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	87.22	20.64
For Bituminous Coated Pipe, Add	10.82	
For Bituminous Coated And 25% Paved, Add	26.15	
For Smooth-Flo, Add	43.14	
33 42 11 00-0808 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0809 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	39.12	9.68
For Bituminous Coated Pipe, Add	4.14	
For Bituminous Coated And 25% Paved, Add	9.68	
For Smooth-Flo, Add	15.87	
33 42 11 00-0810 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	43.69	10.57
For Bituminous Coated Pipe, Add	4.96	
For Bituminous Coated And 25% Paved, Add	11.61	
For Smooth-Flo, Add	19.04	
33 42 11 00-0811 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	49.67	11.45
For Bituminous Coated Pipe, Add	5.90	
For Bituminous Coated And 25% Paved, Add	13.80	
For Smooth-Flo, Add	22.63	
33 42 11 00-0812 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	55.78	12.33
For Bituminous Coated Pipe, Add	6.80	
For Bituminous Coated And 25% Paved, Add	15.91	
For Smooth-Flo, Add	26.09	
33 42 11 00-0813 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	72.55	15.84
For Bituminous Coated Pipe, Add	8.61	
For Bituminous Coated And 25% Paved, Add	20.15	
For Smooth-Flo, Add	33.04	
33 42 11 00-0814 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	94.80	20.64
For Bituminous Coated Pipe, Add	10.97	
For Bituminous Coated And 25% Paved, Add	25.66	
For Smooth-Flo, Add	42.09	
33 42 11 00-0815 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	108.54	24.39
For Bituminous Coated Pipe, Add	13.07	
For Bituminous Coated And 25% Paved, Add	30.57	
For Smooth-Flo, Add	50.14	
33 42 11 00-0816 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0817 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	56.64	11.26
For Bituminous Coated Pipe, Add	5.37	
For Bituminous Coated And 25% Paved, Add	11.94	
For Smooth-Flo, Add	18.36	
33 42 11 00-0818 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	64.43	12.19
For Bituminous Coated Pipe, Add	6.36	
For Bituminous Coated And 25% Paved, Add	14.16	
For Smooth-Flo, Add	21.78	
33 42 11 00-0819 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	72.22	13.14
For Bituminous Coated Pipe, Add	7.30	
For Bituminous Coated And 25% Paved, Add	16.25	
For Smooth-Flo, Add	24.98	
33 42 11 00-0820 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	93.54	16.89
For Bituminous Coated Pipe, Add	9.19	
For Bituminous Coated And 25% Paved, Add	20.46	
For Smooth-Flo, Add	31.45	
33 42 11 00-0821 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch.....	110.27	20.64
For Bituminous Coated Pipe, Add	11.50	
For Bituminous Coated And 25% Paved, Add	25.60	
For Smooth-Flo, Add	39.36	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0822	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	126.39 13.60 30.27 46.55	24.39
33 42 11 00-0823	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	147.13 16.13 35.90 55.20	28.14
33 42 11 00-0824	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.79 17.82 39.65 60.96	31.89
33 42 11 00-0825			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0800)</small>		
33 42 11 00-0826	LF		42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	124.83 13.86 29.18 36.80	20.64
33 42 11 00-0827	LF		49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	143.37 16.35 34.42 43.41	24.39
33 42 11 00-0828	LF		57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	166.37 19.24 40.50 51.07	28.14
33 42 11 00-0829	LF		64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	186.53 21.33 44.90 56.62	31.89
33 42 11 00-0830	LF		71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	204.28 23.42 49.29 62.17	33.77
33 42 11 00-0831			3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0832			14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small>		
33 42 11 00-0833	LF		60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	164.57 20.55 62.48 69.88	31.89
33 42 11 00-0834	LF		66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	179.81 22.49 68.38 76.47	33.77
33 42 11 00-0835	LF		73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	222.07 28.25 85.88 96.05	41.28
33 42 11 00-0836	LF		81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	270.83 30.29 92.07 102.97	60.04
33 42 11 00-0837	LF		87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	293.45 32.42 98.57 110.24	65.67
33 42 11 00-0838	LF		95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	313.59 34.57 105.10 117.55	70.36
33 42 11 00-0839	LF		103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	333.67 36.71 111.61 124.83	75.04
33 42 11 00-0840	LF		112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	354.40 38.85 118.09 132.08	79.74
33 42 11 00-0841			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0831)</small>		
33 42 11 00-0842	LF		66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	213.28 29.19 76.47 90.48	33.77
33 42 11 00-0843	LF		73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	259.19 35.67 93.47 110.59	41.28



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0844 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	311.24 38.37 100.52 118.94	60.04
33 42 11 00-0845 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	337.13 41.16 107.84 127.60	65.67
33 42 11 00-0846 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	360.54 43.96 115.19 136.29	70.36
33 42 11 00-0847 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	383.90 46.76 122.51 144.96	75.04
33 42 11 00-0848 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	407.90 49.55 129.81 153.59	79.74
33 42 11 00-0849 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.61 52.36 137.18 162.32	84.43
33 42 11 00-0850 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	463.41 55.16 144.51 170.99	93.81
33 42 11 00-0851 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	493.22 58.23 152.57 180.53	103.19
33 42 11 00-0852 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0853 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	348.79 45.88 109.19 118.59	60.04
33 42 11 00-0854 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	377.79 49.29 117.31 127.42	65.67
33 42 11 00-0855 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	404.28 52.71 125.45 136.26	70.36
33 42 11 00-0856 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	430.66 56.11 133.55 145.05	75.04
33 42 11 00-0857 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	457.77 59.52 141.66 153.86	79.74
33 42 11 00-0858 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	487.54 62.95 149.81 162.72	84.43
33 42 11 00-0859 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	519.41 66.36 157.93 171.54	93.81
33 42 11 00-0860 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	552.06 70.00 166.60 180.96	103.19
33 42 11 00-0861 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	587.19 74.38 177.01 192.26	112.58
33 42 11 00-0862 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0799)		
33 42 11 00-0863 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0864 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	314.93 39.11 95.42 121.42	60.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0865 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	340.45	65.67
For Bituminous Coated Pipe, Add	41.82	
For Bituminous Coated And 25% Paved, Add	102.05	
For Smooth-Flo, Add	129.86	
33 42 11 00-0866 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	363.29	70.36
For Bituminous Coated Pipe, Add	44.51	
For Bituminous Coated And 25% Paved, Add	108.61	
For Smooth-Flo, Add	138.22	
33 42 11 00-0867 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	386.11	75.04
For Bituminous Coated Pipe, Add	47.20	
For Bituminous Coated And 25% Paved, Add	115.17	
For Smooth-Flo, Add	146.56	
33 42 11 00-0868 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	409.71	79.74
For Bituminous Coated Pipe, Add	49.91	
For Bituminous Coated And 25% Paved, Add	121.78	
For Smooth-Flo, Add	154.96	
33 42 11 00-0869 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	436.12	84.43
For Bituminous Coated Pipe, Add	52.66	
For Bituminous Coated And 25% Paved, Add	128.50	
For Smooth-Flo, Add	163.52	
33 42 11 00-0870 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	464.62	93.81
For Bituminous Coated Pipe, Add	55.40	
For Bituminous Coated And 25% Paved, Add	135.18	
For Smooth-Flo, Add	172.02	
33 42 11 00-0871 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	496.21	103.19
For Bituminous Coated Pipe, Add	58.83	
For Bituminous Coated And 25% Paved, Add	143.55	
For Smooth-Flo, Add	182.67	
33 42 11 00-0872 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <small>(33 42 11 00-0862)</small>		
33 42 11 00-0873 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	356.49	60.04
For Bituminous Coated Pipe, Add	47.42	
For Bituminous Coated And 25% Paved, Add	107.16	
For Smooth-Flo, Add	116.41	
33 42 11 00-0874 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	385.34	65.67
For Bituminous Coated Pipe, Add	50.80	
For Bituminous Coated And 25% Paved, Add	114.81	
For Smooth-Flo, Add	124.72	
33 42 11 00-0875 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	411.56	70.36
For Bituminous Coated Pipe, Add	54.17	
For Bituminous Coated And 25% Paved, Add	122.42	
For Smooth-Flo, Add	132.98	
33 42 11 00-0876 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	437.85	75.04
For Bituminous Coated Pipe, Add	57.55	
For Bituminous Coated And 25% Paved, Add	130.06	
For Smooth-Flo, Add	141.29	
33 42 11 00-0877 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	464.26	79.74
For Bituminous Coated Pipe, Add	60.82	
For Bituminous Coated And 25% Paved, Add	137.45	
For Smooth-Flo, Add	149.31	
33 42 11 00-0878 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	494.51	84.43
For Bituminous Coated Pipe, Add	64.34	
For Bituminous Coated And 25% Paved, Add	145.41	
For Smooth-Flo, Add	157.95	
33 42 11 00-0879 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	526.45	93.81
For Bituminous Coated Pipe, Add	67.77	
For Bituminous Coated And 25% Paved, Add	153.15	
For Smooth-Flo, Add	166.37	
33 42 11 00-0880 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	561.45	103.19
For Bituminous Coated Pipe, Add	71.88	
For Bituminous Coated And 25% Paved, Add	162.45	
For Smooth-Flo, Add	176.47	
33 42 11 00-0881 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	594.14	112.58
For Bituminous Coated Pipe, Add	75.77	
For Bituminous Coated And 25% Paved, Add	171.23	
For Smooth-Flo, Add	186.01	
33 42 11 00-0882 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0883 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0884 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	56.72	9.68
33 42 11 00-0885 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.62	10.57
33 42 11 00-0886 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	75.29	11.45
33 42 11 00-0887 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	85.33	12.33
33 42 11 00-0888 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	110.33	15.84
33 42 11 00-0889 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	144.57	20.64
33 42 11 00-0890 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0882)</small>		
33 42 11 00-0891 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.15	9.68



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	Stormwater Utilities	33 40	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0892 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	73.70	10.57
33 42 11 00-0893 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	85.43	11.45
33 42 11 00-0894 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	97.12	12.33
33 42 11 00-0895 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	124.99	15.84
33 42 11 00-0896 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	162.00	20.64
33 42 11 00-0897 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	188.76	24.39
33 42 11 00-0898 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0892)</small>		
33 42 11 00-0899 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	95.97	10.57
33 42 11 00-0900 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	111.81	11.45
33 42 11 00-0901 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	126.98	12.33
33 42 11 00-0902 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	162.26	15.84
33 42 11 00-0903 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	207.02	20.64
33 42 11 00-0904 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	241.19	24.39
33 42 11 00-0905 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	284.20	28.14
33 42 11 00-0906 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	315.74	31.89
33 42 11 00-0907 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0892)</small>		
33 42 11 00-0908 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	242.34	20.64
33 42 11 00-0909 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	282.39	24.39
33 42 11 00-0910 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	330.91	28.14
33 42 11 00-0911 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	368.55	31.89
33 42 11 00-0912 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	403.70	33.77
33 42 11 00-0913 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0914 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0915 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	318.82	31.89
33 42 11 00-0916 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	348.28	33.77
33 42 11 00-0917 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	435.45	41.28
33 42 11 00-0918 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	499.27	60.04
33 42 11 00-0919 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	537.75	65.67
33 42 11 00-0920 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	573.80	70.36
33 42 11 00-0921 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	609.68	75.04
33 42 11 00-0922 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	646.33	79.74
33 42 11 00-0923 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0924 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	433.43	33.77
33 42 11 00-0925 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	530.24	41.28
33 42 11 00-0926 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	602.43	60.04
33 42 11 00-0927 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	649.13	65.67
33 42 11 00-0928 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	693.44	70.36
33 42 11 00-0929 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	737.69	75.04
33 42 11 00-0930 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	782.52	79.74
33 42 11 00-0931 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	830.20	84.43
33 42 11 00-0932 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	879.88	93.81
33 42 11 00-0933 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	932.65	103.19
33 42 11 00-0934 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0913)</small>		
33 42 11 00-0935 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	696.02	60.04
33 42 11 00-0936 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	750.46	65.67
33 42 11 00-0937 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	802.50	70.36
33 42 11 00-0938 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	854.27	75.04
33 42 11 00-0939 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	906.80	79.74
33 42 11 00-0940 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	962.14	84.43
33 42 11 00-0941 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,019.52	93.81
33 42 11 00-0942 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,079.32	103.19
33 42 11 00-0943 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,147.08	112.58
33 42 11 00-0944 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0799)</small>		
33 42 11 00-0945 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0944)</small>		
33 42 11 00-0946 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	594.02	60.04
33 42 11 00-0947 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	638.61	65.67
33 42 11 00-0948 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	680.30	70.36
33 42 11 00-0949 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	721.92	75.04
33 42 11 00-0950 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	764.48	79.74
33 42 11 00-0951 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	810.21	84.43
33 42 11 00-0952 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	857.86	93.81
33 42 11 00-0953 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	913.47	103.19

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0954 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch <small>(33 42 11 00-0944)</small>		
33 42 11 00-0955 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	693.83	60.04
33 42 11 00-0956 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	746.35	65.67
33 42 11 00-0957 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	796.14	70.36
33 42 11 00-0958 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	846.14	75.04
33 42 11 00-0959 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	895.51	79.74
33 42 11 00-0960 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	950.38	84.43
33 42 11 00-0961 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,006.34	93.81
33 42 11 00-0962 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,070.26	103.19
33 42 11 00-0963 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,130.01	112.58
33 42 11 00-0964 Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0455)</small>		
33 42 11 00-0965 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small>		
33 42 11 00-0966 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0965)</small>		
33 42 11 00-0967 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	33.89	9.24
For 1/2 Bituminous Coated And 25% Paved, Add	5.93	
33 42 11 00-0968 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	38.37	9.68
For 1/2 Bituminous Coated And 25% Paved, Add	7.47	
33 42 11 00-0969 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	43.02	10.57
For 1/2 Bituminous Coated And 25% Paved, Add	9.05	
33 42 11 00-0970 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	49.03	11.45
For 1/2 Bituminous Coated And 25% Paved, Add	10.82	
33 42 11 00-0971 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	54.33	12.33
For 1/2 Bituminous Coated And 25% Paved, Add	12.19	
33 42 11 00-0972 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	71.65	15.84
For 1/2 Bituminous Coated And 25% Paved, Add	15.82	
33 42 11 00-0973 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	93.17	20.64
For 1/2 Bituminous Coated And 25% Paved, Add	19.95	
33 42 11 00-0974 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.18	24.39
For 1/2 Bituminous Coated And 25% Paved, Add	23.60	
33 42 11 00-0975 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	119.34	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	26.45	
33 42 11 00-0976 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0965)</small>		
33 42 11 00-0977 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	37.09	9.24
For 1/2 Bituminous Coated And 25% Paved, Add	5.63	
33 42 11 00-0978 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	42.32	9.68
For 1/2 Bituminous Coated And 25% Paved, Add	7.07	
33 42 11 00-0979 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	47.74	10.57
For 1/2 Bituminous Coated And 25% Paved, Add	8.55	
33 42 11 00-0980 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	54.50	11.45
For 1/2 Bituminous Coated And 25% Paved, Add	10.16	
33 42 11 00-0981 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	60.67	12.33
For 1/2 Bituminous Coated And 25% Paved, Add	11.50	
33 42 11 00-0982 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	79.41	15.84
For 1/2 Bituminous Coated And 25% Paved, Add	14.78	
33 42 11 00-0983 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	102.56	20.64
For 1/2 Bituminous Coated And 25% Paved, Add	18.52	
33 42 11 00-0984 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	116.99	24.39
For 1/2 Bituminous Coated And 25% Paved, Add	21.81	
33 42 11 00-0985 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	131.66	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	24.50	
33 42 11 00-0986 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	157.45	31.89
For 1/2 Bituminous Coated And 25% Paved, Add	30.13	
33 42 11 00-0987 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0965)</small>		
33 42 11 00-0988 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	57.64	10.57
For 1/2 Bituminous Coated And 25% Paved, Add	7.96	
33 42 11 00-0989 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	66.07	11.45
For 1/2 Bituminous Coated And 25% Paved, Add	9.42	
33 42 11 00-0990 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	73.81	12.33
For 1/2 Bituminous Coated And 25% Paved, Add	10.68	
33 42 11 00-0991 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	95.81	15.84
For 1/2 Bituminous Coated And 25% Paved, Add	13.61	
33 42 11 00-0992 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	122.35	20.64
For 1/2 Bituminous Coated And 25% Paved, Add	16.89	
33 42 11 00-0993 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	139.92	24.39
For 1/2 Bituminous Coated And 25% Paved, Add	19.81	
33 42 11 00-0994 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	157.82	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	22.35	



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Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0995 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	187.32 26.98	31.89
33 42 11 00-0996 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	204.58 29.50	33.77
33 42 11 00-0997 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.59 36.29	41.28
33 42 11 00-0998 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0965)</small>		
33 42 11 00-0999 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	140.14 18.50	20.64
33 42 11 00-1000 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	160.73 21.69	24.39
33 42 11 00-1001 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	181.44 24.49	28.14
33 42 11 00-1002 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	213.81 29.18	31.89
33 42 11 00-1003 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	234.06 32.01	33.77
33 42 11 00-1004 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	281.97 38.62	41.28
33 42 11 00-1005 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	335.05 41.40	60.04
33 42 11 00-1006 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small>		
33 42 11 00-1007 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1005)</small>		
33 42 11 00-1008 LF 36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	107.15 22.18	20.64
33 42 11 00-1009 LF 42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.19 26.05	24.39
33 42 11 00-1010 LF 48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.34 29.21	28.14
33 42 11 00-1011 LF 54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	163.76 35.68	31.89
33 42 11 00-1012 LF 60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	178.42 38.87	33.77
33 42 11 00-1013 LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	223.49 49.93	41.28
33 42 11 00-1014 LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	271.46 53.22	60.04
33 42 11 00-1015 LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.82 56.52	65.67
33 42 11 00-1016 LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	311.66 59.83	70.36
33 42 11 00-1017 LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	330.50 63.14	75.04
33 42 11 00-1018 LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	349.99 66.44	79.74
33 42 11 00-1019 LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	372.15 69.77	84.43
33 42 11 00-1020 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		
33 42 11 00-1021 LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	179.83 30.92	31.89
33 42 11 00-1022 LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	196.18 33.75	33.77
33 42 11 00-1023 LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	243.03 42.50	41.28
33 42 11 00-1024 LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	292.76 45.42	60.04
33 42 11 00-1025 LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	315.83 48.34	65.67
33 42 11 00-1026 LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	336.49 51.29	70.36
33 42 11 00-1027 LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	357.02 54.21	75.04
33 42 11 00-1028 LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	378.23 57.13	79.74
33 42 11 00-1029 LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	402.11 60.08	84.43
33 42 11 00-1030 LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	428.13 63.01	93.81
33 42 11 00-1031 LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	453.58 65.90	103.19
33 42 11 00-1032 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small>		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1033 LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	235.66	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	45.28	
33 42 11 00-1034 LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	286.74	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	55.39	
33 42 11 00-1035 LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	340.27	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	59.41	
33 42 11 00-1036 LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	367.22	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	63.45	
33 42 11 00-1037 LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	391.68	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	67.51	
33 42 11 00-1038 LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	416.07	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	71.55	
33 42 11 00-1039 LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	441.13	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	75.58	
33 42 11 00-1040 LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	468.84	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	79.63	
33 42 11 00-1041 LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	498.66	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	83.67	
33 42 11 00-1042 LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	527.98	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	87.68	
33 42 11 00-1043 LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	556.32	112.58
For 1/2 Bituminous Coated And 25% Paved, Add	91.73	
33 42 11 00-1044 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping		
(33 42 11 00-1006)		
33 42 11 00-1045 LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	384.59	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	72.93	
33 42 11 00-1046 LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	415.09	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	78.03	
33 42 11 00-1047 LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	443.21	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	83.18	
33 42 11 00-1048 LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	471.20	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	88.30	
33 42 11 00-1049 LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	499.94	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	93.44	
33 42 11 00-1050 LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	531.31	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	98.59	
33 42 11 00-1051 LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	564.72	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	103.70	
33 42 11 00-1052 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	597.67	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	108.80	
33 42 11 00-1053 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	629.66	112.58
For 1/2 Bituminous Coated And 25% Paved, Add	113.95	
33 42 11 00-1054 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	663.34	121.95
For 1/2 Bituminous Coated And 25% Paved, Add	119.06	
33 42 11 00-1055 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	699.43	131.33
For 1/2 Bituminous Coated And 25% Paved, Add	124.20	
33 42 11 00-1056 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	738.39	140.72
For 1/2 Bituminous Coated And 25% Paved, Add	129.35	
33 42 11 00-1057 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
(33 42 11 00-0964)		
33 42 11 00-1058 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
(33 42 11 00-1057)		
33 42 11 00-1059 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	137.86	28.14
For 1/2 Bituminous Coated And 25% Paved, Add	36.20	
33 42 11 00-1060 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	164.69	31.89
For 1/2 Bituminous Coated And 25% Paved, Add	44.34	
33 42 11 00-1061 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	179.24	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	48.22	
33 42 11 00-1062 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	221.68	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	60.71	
33 42 11 00-1063 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	269.44	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	64.67	
33 42 11 00-1064 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	290.55	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	68.62	
33 42 11 00-1065 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	309.06	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	72.55	
33 42 11 00-1066 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	327.51	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	76.46	
33 42 11 00-1067 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	346.82	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	80.45	
33 42 11 00-1068 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	368.91	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	84.52	
33 42 11 00-1069 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping		
(33 42 11 00-1057)		
33 42 11 00-1070 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe	184.78	31.89
For 1/2 Bituminous Coated And 25% Paved, Add	41.81	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1071 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	201.62	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	45.65	
33 42 11 00-1072 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	246.05	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	56.18	
33 42 11 00-1073 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	295.81	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	59.98	
33 42 11 00-1074 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	319.28	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	63.90	
33 42 11 00-1075 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	340.03	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	67.77	
33 42 11 00-1076 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	359.62	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	71.24	
33 42 11 00-1077 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	382.13	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	75.47	
33 42 11 00-1078 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	406.13	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	79.33	
33 42 11 00-1079 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	432.18	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	83.15	
33 42 11 00-1080 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	458.11	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	87.06	
33 42 11 00-1081 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1057)		
33 42 11 00-1082 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	243.46	33.77
For 1/2 Bituminous Coated And 25% Paved, Add	50.37	
33 42 11 00-1083 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	292.18	41.28
For 1/2 Bituminous Coated And 25% Paved, Add	60.45	
33 42 11 00-1084 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	346.32	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	64.90	
33 42 11 00-1085 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	373.65	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	69.30	
33 42 11 00-1086 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	398.36	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	73.69	
33 42 11 00-1087 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	423.26	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	78.12	
33 42 11 00-1088 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	448.71	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	82.52	
33 42 11 00-1089 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	476.72	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	86.92	
33 42 11 00-1090 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	507.03	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	91.35	
33 42 11 00-1091 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	536.86	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	95.76	
33 42 11 00-1092 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	565.53	112.58
For 1/2 Bituminous Coated And 25% Paved, Add	100.16	
33 42 11 00-1093 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1057)		
33 42 11 00-1094 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	394.68	60.04
For 1/2 Bituminous Coated And 25% Paved, Add	78.73	
33 42 11 00-1095 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	426.51	65.67
For 1/2 Bituminous Coated And 25% Paved, Add	84.42	
33 42 11 00-1096 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	455.42	70.36
For 1/2 Bituminous Coated And 25% Paved, Add	90.00	
33 42 11 00-1097 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	484.13	75.04
For 1/2 Bituminous Coated And 25% Paved, Add	95.53	
33 42 11 00-1098 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	513.68	79.74
For 1/2 Bituminous Coated And 25% Paved, Add	101.10	
33 42 11 00-1099 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	545.72	84.43
For 1/2 Bituminous Coated And 25% Paved, Add	106.65	
33 42 11 00-1100 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	580.01	93.81
For 1/2 Bituminous Coated And 25% Paved, Add	112.22	
33 42 11 00-1101 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	613.89	103.19
For 1/2 Bituminous Coated And 25% Paved, Add	117.79	
33 42 11 00-1102 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	646.51	112.58
For 1/2 Bituminous Coated And 25% Paved, Add	123.32	
33 42 11 00-1103 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	687.20	121.95
For 1/2 Bituminous Coated And 25% Paved, Add	130.64	
33 42 11 00-1104 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	725.65	131.33
For 1/2 Bituminous Coated And 25% Paved, Add	136.66	
33 42 11 00-1105 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	767.75	140.72
For 1/2 Bituminous Coated And 25% Paved, Add	142.92	
33 42 11 00-1106 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0964)		
33 42 11 00-1107 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1108 LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	48.43	10.57
33 42 11 00-1109 LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	55.29	11.45
33 42 11 00-1110 LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	61.73	12.33

33	Utilities
33 40	Stormwater Utilities
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33 42 11 00-1111 LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	80.68	15.84
33 42 11 00-1112 LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	103.77	20.64
33 42 11 00-1113 LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	118.41	24.39
33 42 11 00-1114 LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	133.57	28.14
33 42 11 00-1115 LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	158.29	31.89
33 42 11 00-1116 LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	172.92	33.77
33 42 11 00-1117 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1118 LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	53.08	10.57
33 42 11 00-1119 LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	60.72	11.45
33 42 11 00-1120 LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	67.89	12.33
33 42 11 00-1121 LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	88.38	15.84
33 42 11 00-1122 LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	113.04	20.64
33 42 11 00-1123 LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	129.26	24.39
33 42 11 00-1124 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	145.95	28.14
33 42 11 00-1125 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	172.22	31.89
33 42 11 00-1126 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	188.45	33.77
33 42 11 00-1127 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	229.05	41.28
33 42 11 00-1128 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	278.17	60.04
33 42 11 00-1129 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	300.79	65.67
33 42 11 00-1130 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1106)		
33 42 11 00-1131 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	104.00	15.84
33 42 11 00-1132 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	131.74	20.64
33 42 11 00-1133 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	151.16	24.39
33 42 11 00-1134 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	170.93	28.14
33 42 11 00-1135 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	200.31	31.89
33 42 11 00-1136 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	219.71	33.77
33 42 11 00-1137 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	263.36	41.28
33 42 11 00-1138 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	315.56	60.04
33 42 11 00-1139 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	341.30	65.67
33 42 11 00-1140 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	364.40	70.36
33 42 11 00-1141 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	387.53	75.04
33 42 11 00-1142 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	411.25	79.74
33 42 11 00-1143 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	436.09	84.43
33 42 11 00-1144 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0455)		
33 42 11 00-1145 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1144)		
33 42 11 00-1146 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)		
33 42 11 00-1147 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	39.45	9.68
For 1/2 Bituminous Coated And 40% Paved, Add	9.65	
33 42 11 00-1148 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	43.99	10.57
For 1/2 Bituminous Coated And 40% Paved, Add	11.53	
33 42 11 00-1149 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	50.36	11.45
For 1/2 Bituminous Coated And 40% Paved, Add	13.86	
33 42 11 00-1150 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	56.56	12.33
For 1/2 Bituminous Coated And 40% Paved, Add	15.98	
33 42 11 00-1151 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	73.67	15.84
For 1/2 Bituminous Coated And 40% Paved, Add	20.30	
33 42 11 00-1152 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	96.88	20.64
For 1/2 Bituminous Coated And 40% Paved, Add	26.18	
33 42 11 00-1153 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)		
33 42 11 00-1154 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	43.41	9.68
For 1/2 Bituminous Coated And 40% Paved, Add	10.00	
33 42 11 00-1155 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	48.79	10.57
For 1/2 Bituminous Coated And 40% Paved, Add	11.98	
33 42 11 00-1156 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	55.77	11.45
For 1/2 Bituminous Coated And 40% Paved, Add	14.25	
33 42 11 00-1157 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	62.81	12.33
For 1/2 Bituminous Coated And 40% Paved, Add	16.43	
33 42 11 00-1158 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	81.47	15.84
For 1/2 Bituminous Coated And 40% Paved, Add	20.81	
33 42 11 00-1159 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	106.16	20.64
For 1/2 Bituminous Coated And 40% Paved, Add	26.51	
33 42 11 00-1160 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch	122.07	24.39
For 1/2 Bituminous Coated And 40% Paved, Add	31.58	
33 42 11 00-1161 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1145)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1162	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	58.58 10.97	10.57
33 42 11 00-1163	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	67.37 13.04	11.45
33 42 11 00-1164	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	75.95 14.97	12.33
33 42 11 00-1165	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	97.87 18.89	15.84
33 42 11 00-1166	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	125.97 23.75	20.64
33 42 11 00-1167	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	145.18 28.15	24.39
33 42 11 00-1168	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	169.87 33.52	28.14
33 42 11 00-1169	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	189.68 36.95	31.89
33 42 11 00-1170		10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1146)</small>		
33 42 11 00-1171	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	143.77 25.00	20.64
33 42 11 00-1172	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	165.93 29.54	24.39
33 42 11 00-1173	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	193.41 34.88	28.14
33 42 11 00-1174	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	216.29 38.62	31.89
33 42 11 00-1175	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	236.75 42.35	33.77
33 42 11 00-1176		3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1144)</small>		
33 42 11 00-1177		14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1178	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	183.00 55.51	31.89
33 42 11 00-1179	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	199.96 60.74	33.77
33 42 11 00-1180	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	247.38 76.28	41.28
33 42 11 00-1181	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	297.95 81.78	60.04
33 42 11 00-1182	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	322.51 87.56	65.67
33 42 11 00-1183	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	344.56 93.36	70.36
33 42 11 00-1184	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	366.53 99.12	75.04
33 42 11 00-1185	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	389.23 104.91	79.74
33 42 11 00-1186		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1187	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	239.47 69.02	33.77
33 42 11 00-1188	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	291.18 84.35	41.28
33 42 11 00-1189	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	345.65 90.73	60.04
33 42 11 00-1190	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	374.01 97.31	65.67
33 42 11 00-1191	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	399.96 103.96	70.36
33 42 11 00-1192	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	425.83 110.57	75.04
33 42 11 00-1193	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	452.33 117.16	79.74
33 42 11 00-1194	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	481.56 123.81	84.43
33 42 11 00-1195	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	512.86 130.42	93.81
33 42 11 00-1196	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	545.44 137.70	103.19
33 42 11 00-1197		10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1176)</small>		
33 42 11 00-1198	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	389.93 98.20	60.04

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1199 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	421.98 105.51	65.67
33 42 11 00-1200 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	451.55 112.83	70.36
33 42 11 00-1201 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	480.99 120.11	75.04
33 42 11 00-1202 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	513.59 128.29	79.74
33 42 11 00-1203 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	543.99 134.74	84.43
33 42 11 00-1204 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	578.95 142.05	93.81
33 42 11 00-1205 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	614.83 149.84	103.19
33 42 11 00-1206 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	653.89 159.20	112.58
33 42 11 00-1207 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1144)</small>		
33 42 11 00-1208 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1209 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	350.12 89.29	60.04
33 42 11 00-1210 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	378.09 95.50	65.67
33 42 11 00-1211 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	403.37 101.65	70.36
33 42 11 00-1212 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	428.61 107.78	75.04
33 42 11 00-1213 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	454.63 113.96	79.74
33 42 11 00-1214 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	483.52 120.24	84.43
33 42 11 00-1215 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	514.49 126.50	93.81
33 42 11 00-1216 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	549.16 134.33	103.19
33 42 11 00-1217 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1218 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	399.18 99.04	60.04
33 42 11 00-1219 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	431.07 106.11	65.67
33 42 11 00-1220 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	460.31 113.13	70.36
33 42 11 00-1221 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	489.66 120.20	75.04
33 42 11 00-1222 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	519.03 127.04	79.74
33 42 11 00-1223 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	552.42 134.38	84.43
33 42 11 00-1224 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	587.47 141.55	93.81
33 42 11 00-1225 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	626.16 150.13	103.19
33 42 11 00-1226 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	662.34 158.25	112.58
33 42 11 00-1227 Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0455)</small>		
33 42 11 00-1228 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small>		
33 42 11 00-1229 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1228)</small>		
33 42 11 00-1230 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	20.13 1.84	5.28
33 42 11 00-1231 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	25.79 2.49	6.60
33 42 11 00-1232 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	33.35 3.28	7.92
33 42 11 00-1233 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1228)</small>		
33 42 11 00-1234 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe..... <i>For Bituminous Coated Pipe, Add</i>	22.23 1.82	5.28



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1235	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	28.77 2.49	6.60
33 42 11 00-1236	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	37.32 3.29	7.92
33 42 11 00-1237		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small>		
33 42 11 00-1238		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small>		
33 42 11 00-1239	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	38.73 3.61	9.24
33 42 11 00-1240	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	44.37 4.53	9.68
33 42 11 00-1241	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	50.38 5.51	10.57
33 42 11 00-1242	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	57.77 6.57	11.45
33 42 11 00-1243	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	64.44 7.45	12.33
33 42 11 00-1244		14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small>		
33 42 11 00-1245	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	43.24 3.53	9.24
33 42 11 00-1246	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	50.12 4.45	9.68
33 42 11 00-1247	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	57.27 5.39	10.57
33 42 11 00-1248	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	65.77 6.40	11.45
33 42 11 00-1249	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	73.62 7.27	12.33
33 42 11 00-1250	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	95.90 9.32	15.84
33 42 11 00-1251	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	122.61 11.59	20.64
33 42 11 00-1252		12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small>		
33 42 11 00-1253	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	91.15 6.90	12.33
33 42 11 00-1254	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	117.73 8.78	15.84
33 42 11 00-1255	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	148.83 10.82	20.64
33 42 11 00-1256	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	171.31 12.73	24.39
33 42 11 00-1257	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	193.73 14.40	28.14
33 42 11 00-1258	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	227.71 17.09	31.89
33 42 11 00-1259		10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small>		
33 42 11 00-1260	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	176.78 10.64	20.64
33 42 11 00-1261	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	203.86 12.49	24.39
33 42 11 00-1262	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	231.04 14.17	28.14
33 42 11 00-1263	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	269.69 16.63	31.89
33 42 11 00-1264	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	296.42 18.33	33.77
33 42 11 00-1265		3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1266		16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1267	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	94.47 120.83	15.84
33 42 11 00-1268	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	120.83 138.06	20.64
33 42 11 00-1269	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	138.06 156.32	24.39
33 42 11 00-1270	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	156.32 184.38	28.14
33 42 11 00-1271	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	184.38 184.38	31.89

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1272			14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1273	LF		30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	105.97	15.84
33 42 11 00-1274	LF		36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	137.23	20.64
33 42 11 00-1275	LF		42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	157.10	24.39
33 42 11 00-1276	LF		48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	177.10	28.14
33 42 11 00-1277	LF		54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	208.72	31.89
33 42 11 00-1278	LF		60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	228.18	33.77
33 42 11 00-1279	LF		66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	277.43	41.28
33 42 11 00-1280	LF		72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	330.08	60.04
33 42 11 00-1281	LF		78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	356.12	65.67
33 42 11 00-1282			12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1283	LF		30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	132.82	15.84
33 42 11 00-1284	LF		36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	167.42	20.64
33 42 11 00-1285	LF		42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	193.18	24.39
33 42 11 00-1286	LF		48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	218.48	28.14
33 42 11 00-1287	LF		54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	255.17	31.89
33 42 11 00-1288	LF		60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	279.62	33.77
33 42 11 00-1289	LF		66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	333.84	41.28
33 42 11 00-1290	LF		72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	391.60	60.04
33 42 11 00-1291	LF		78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	422.67	65.67
33 42 11 00-1292	LF		84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	451.28	70.36
33 42 11 00-1293	LF		90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	479.80	75.04
33 42 11 00-1294	LF		96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	509.01	79.74
33 42 11 00-1295			10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small>		
33 42 11 00-1296	LF		60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	333.72	33.77
33 42 11 00-1297	LF		66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	391.07	41.28
33 42 11 00-1298	LF		72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	453.97	60.04
33 42 11 00-1299	LF		78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	490.18	65.67
33 42 11 00-1300	LF		84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	523.84	70.36
33 42 11 00-1301	LF		90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	557.49	75.04
33 42 11 00-1302	LF		96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	591.79	79.74
33 42 11 00-1303	LF		102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	628.79	84.43
33 42 11 00-1304	LF		108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	667.88	93.81
33 42 11 00-1305			Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1227)</small>		
			Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1306			16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1307	LF		18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	65.86	10.57
33 42 11 00-1308	LF		21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	70.84	11.45
33 42 11 00-1309	LF		24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	85.02	12.33
33 42 11 00-1310	LF		27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.16	14.09
33 42 11 00-1311	LF		30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	110.22	15.84
33 42 11 00-1312	LF		33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	122.65	17.61
33 42 11 00-1313			14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1314	LF		18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	75.59	10.57
33 42 11 00-1315	LF		21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	87.15	11.45
33 42 11 00-1316	LF		24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.10	12.33
33 42 11 00-1317	LF		27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	112.84	14.09
33 42 11 00-1318	LF		30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	126.50	15.84
33 42 11 00-1319	LF		33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	140.59	17.61
33 42 11 00-1320	LF		36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.56	20.64
33 42 11 00-1321	LF		42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	183.81	24.39
33 42 11 00-1322	LF		48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	207.97	28.14
33 42 11 00-1323			12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1324	LF		30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	158.34	15.84
33 42 11 00-1325	LF		33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	175.54	17.61
33 42 11 00-1326	LF		36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	197.75	20.64
33 42 11 00-1327	LF		42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	228.40	24.39
33 42 11 00-1328	LF		48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	258.93	28.14
33 42 11 00-1329	LF		54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	356.39	31.89
33 42 11 00-1330	LF		60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	392.14	33.77



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Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1331 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1305)</small>		
33 42 11 00-1332 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	362.75	28.14
33 42 11 00-1333 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	420.40	31.89
33 42 11 00-1334 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	463.33	33.77
33 42 11 00-1335 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	538.67	41.28
33 42 11 00-1336 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	613.83	60.04
33 42 11 00-1337 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	662.88	65.67
33 42 11 00-1338 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	709.00	70.36
 33 42 11 00-1339 Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-0455)</small>		
33 42 11 00-1340 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1339)</small>		
33 42 11 00-1341 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1342 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	46.43	9.68
For Bituminous Coated Pipe, Add	4.54	
33 42 11 00-1343 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	52.32	10.57
For Bituminous Coated Pipe, Add	5.42	
33 42 11 00-1344 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	59.99	11.45
For Bituminous Coated Pipe, Add	6.46	
 33 42 11 00-1345 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1346 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	52.19	9.68
For Bituminous Coated Pipe, Add	4.52	
33 42 11 00-1347 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	57.86	10.57
For Bituminous Coated Pipe, Add	5.22	
33 42 11 00-1348 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	67.98	11.45
For Bituminous Coated Pipe, Add	6.40	
33 42 11 00-1349 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	76.62	12.33
For Bituminous Coated Pipe, Add	7.35	
33 42 11 00-1350 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	98.89	15.84
For Bituminous Coated Pipe, Add	9.29	
 33 42 11 00-1351 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1352 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	94.17	12.33
For Bituminous Coated Pipe, Add	7.00	
33 42 11 00-1353 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	120.77	15.84
For Bituminous Coated Pipe, Add	8.83	
33 42 11 00-1354 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	153.98	20.64
For Bituminous Coated Pipe, Add	11.02	
33 42 11 00-1355 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	178.09	24.39
For Bituminous Coated Pipe, Add	13.03	
 33 42 11 00-1356 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1340)</small>		
33 42 11 00-1357 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	181.89	20.64
For Bituminous Coated Pipe, Add	10.63	
33 42 11 00-1358 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	210.70	24.39
For Bituminous Coated Pipe, Add	12.55	
33 42 11 00-1359 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	244.77	28.14
For Bituminous Coated Pipe, Add	14.70	
33 42 11 00-1360 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	274.20	31.89
For Bituminous Coated Pipe, Add	16.35	
 33 42 11 00-1361 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1339)</small>		
33 42 11 00-1362 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1361)</small>		
33 42 11 00-1363 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	213.24	31.89
33 42 11 00-1364 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	233.43	33.77
33 42 11 00-1365 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	283.92	41.28
 33 42 11 00-1366 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch <small>(33 42 11 00-1361)</small>		
33 42 11 00-1367 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	259.69	31.89
33 42 11 00-1368 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	284.87	33.77
33 42 11 00-1369 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	340.10	41.28
33 42 11 00-1370 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	398.33	60.04
33 42 11 00-1371 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	429.88	65.67
33 42 11 00-1372 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	458.96	70.36

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1373 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch ^(33 42 11 00-1361)		
33 42 11 00-1374 LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	338.89	33.77
33 42 11 00-1375 LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	397.09	41.28
33 42 11 00-1376 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	460.45	60.04
33 42 11 00-1377 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	497.14	65.67
33 42 11 00-1378 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	531.28	70.36
33 42 11 00-1379 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	565.38	75.04

33 42 11 00-1380 Corrugated Steel Pipe Fittings ^(33 42 11 00-0455)

Note: Equivalent pipe-arch sizes are approximate.

33 42 11 00-1381 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings ^(33 42 11 00-1380)

Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1382 EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	82.61	
33 42 11 00-1383 EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	103.61	
33 42 11 00-1384 EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe).....	124.59	
33 42 11 00-1385 EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	146.90	
33 42 11 00-1386 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	178.36	
33 42 11 00-1387 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	209.82	
33 42 11 00-1388 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	241.31	
33 42 11 00-1389 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	272.76	
33 42 11 00-1390 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	355.40	
33 42 11 00-1391 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	423.59	
33 42 11 00-1392 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	491.78	
33 42 11 00-1393 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	636.05	
33 42 11 00-1394 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	717.36	
33 42 11 00-1395 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	801.30	
33 42 11 00-1396 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	887.84	
33 42 11 00-1397 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,081.93	
33 42 11 00-1398 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,180.28	
33 42 11 00-1399 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,281.26	
33 42 11 00-1400 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,572.40	
33 42 11 00-1401 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,687.82	
33 42 11 00-1402 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,804.53	
33 42 11 00-1403 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,921.24	
33 42 11 00-1404 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,036.65	
33 42 11 00-1405 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,153.37	
33 42 11 00-1406 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,276.42	
33 42 11 00-1407 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,406.52	
33 42 11 00-1408 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,544.02	

33 42 11 00-1409 Fabricate Corrugated Steel Pipe Tees Or Laterals ^(33 42 11 00-1380)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1410 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	107.54	
33 42 11 00-1411 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	137.70	
33 42 11 00-1412 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	167.84	
33 42 11 00-1413 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	198.03	
33 42 11 00-1414 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	241.31	
33 42 11 00-1415 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	285.88	
33 42 11 00-1416 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	330.50	
33 42 11 00-1417 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	375.04	
33 42 11 00-1418 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	491.78	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1419 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	586.21	
33 42 11 00-1420 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	681.93	
33 42 11 00-1421 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	885.21	
33 42 11 00-1422 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	996.68	
33 42 11 00-1423 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,112.08	
33 42 11 00-1424 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,230.11	
33 42 11 00-1425 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,500.26	
33 42 11 00-1426 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,634.04	
33 42 11 00-1427 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,770.42	
33 42 11 00-1428 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,178.25	
33 42 11 00-1429 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,334.33	
33 42 11 00-1430 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,490.39	
33 42 11 00-1431 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,647.75	
33 42 11 00-1432 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,805.13	
33 42 11 00-1433 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,961.17	
33 42 11 00-1434 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,125.91	
33 42 11 00-1435 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,299.80	
33 42 11 00-1436 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,483.36	

33 42 11 00-1437 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1380)

Note: Applied to pipe tasks.

33 42 11 00-1438 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	41.37	
33 42 11 00-1439 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	52.04	
33 42 11 00-1440 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	65.46	
33 42 11 00-1441 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	80.16	
33 42 11 00-1442 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	101.43	
33 42 11 00-1443 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	124.20	
33 42 11 00-1444 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	145.49	
33 42 11 00-1445 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	169.03	
33 42 11 00-1446 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	207.61	
33 42 11 00-1447 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	247.53	
33 42 11 00-1448 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	295.35	
33 42 11 00-1449 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	363.31	
33 42 11 00-1450 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	411.23	
33 42 11 00-1451 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	463.11	
33 42 11 00-1452 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	561.61	
33 42 11 00-1453 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	622.80	
33 42 11 00-1454 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	759.89	
33 42 11 00-1455 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	827.78	
33 42 11 00-1456 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	899.67	
33 42 11 00-1457 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	970.15	
33 42 11 00-1458 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,042.02	
33 42 11 00-1459 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,115.20	
33 42 11 00-1460 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,187.09	
33 42 11 00-1461 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,258.94	
33 42 11 00-1462 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,335.14	
33 42 11 00-1463 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,415.93	
33 42 11 00-1464 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,501.63	

33 42 11 00-1465 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1380)

33 42 11 00-1466 EA 6" Coupling Band, Corrugated Metal Pipe Fitting.....	10.51	
For Bituminous Coated, Add	3.05	
33 42 11 00-1467 EA 8" Coupling Band, Corrugated Metal Pipe Fitting.....	13.96	
For Bituminous Coated, Add	4.05	
33 42 11 00-1468 EA 10" Coupling Band, Corrugated Metal Pipe Fitting.....	17.58	
For Bituminous Coated, Add	5.10	
33 42 11 00-1469 EA 12" Coupling Band, Corrugated Metal Pipe Fitting.....	29.18	
For Bituminous Coated, Add	8.46	
33 42 11 00-1470 EA 15" Coupling Band, Corrugated Metal Pipe Fitting.....	36.79	
For Bituminous Coated, Add	10.67	
33 42 11 00-1471 EA 18" Coupling Band, Corrugated Metal Pipe Fitting.....	53.98	
For Bituminous Coated, Add	15.65	
33 42 11 00-1472 EA 21" Coupling Band, Corrugated Metal Pipe Fitting.....	64.07	
For Bituminous Coated, Add	18.58	
33 42 11 00-1473 EA 24" Coupling Band, Corrugated Metal Pipe Fitting.....	72.65	
For Bituminous Coated, Add	21.07	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1474 EA 30" Coupling Band, Corrugated Metal Pipe Fitting.....	125.72	
For Bituminous Coated, Add	36.46	
33 42 11 00-1475 EA 36" Coupling Band, Corrugated Metal Pipe Fitting.....	201.15	
For Bituminous Coated, Add	48.28	
33 42 11 00-1476 EA 42" Coupling Band, Corrugated Metal Pipe Fitting.....	236.34	
For Bituminous Coated, Add	56.72	
33 42 11 00-1477 EA 48" Coupling Band, Corrugated Metal Pipe Fitting.....	264.82	
For Bituminous Coated, Add	63.56	
33 42 11 00-1478 EA 54" Coupling Band, Corrugated Metal Pipe Fitting.....	375.56	
For Bituminous Coated, Add	90.13	
33 42 11 00-1479 EA 60" Coupling Band, Corrugated Metal Pipe Fitting.....	537.17	
For Bituminous Coated, Add	96.69	
33 42 11 00-1480 EA 66" Coupling Band, Corrugated Metal Pipe Fitting.....	660.17	
For Bituminous Coated, Add	118.83	
33 42 11 00-1481 EA 72" Coupling Band, Corrugated Metal Pipe Fitting.....	848.03	
For Bituminous Coated, Add	118.72	
33 42 11 00-1482 EA 78" Coupling Band, Corrugated Metal Pipe Fitting.....	907.03	
For Bituminous Coated, Add	126.98	
33 42 11 00-1483 EA 84" Coupling Band, Corrugated Metal Pipe Fitting.....	966.35	
For Bituminous Coated, Add	135.29	
33 42 11 00-1484 EA 90" Coupling Band, Corrugated Metal Pipe Fitting.....	1,025.38	
For Bituminous Coated, Add	143.55	
33 42 11 00-1485 EA 96" Coupling Band, Corrugated Metal Pipe Fitting.....	1,084.55	
For Bituminous Coated, Add	151.84	
33 42 11 00-1486 EA 102" Coupling Band, Corrugated Metal Pipe Fitting.....	1,143.88	
For Bituminous Coated, Add	160.14	
33 42 11 00-1487 EA 108" Coupling Band, Corrugated Metal Pipe Fitting.....	1,202.93	
For Bituminous Coated, Add	168.41	
33 42 11 00-1488 EA 114" Coupling Band, Corrugated Metal Pipe Fitting.....	1,424.74	
For Bituminous Coated, Add	170.97	
33 42 11 00-1489 EA 120" Coupling Band, Corrugated Metal Pipe Fitting.....	1,320.95	
For Bituminous Coated, Add	158.51	
33 42 11 00-1490 EA 126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,379.83	
For Bituminous Coated, Add	165.58	
33 42 11 00-1491 EA 132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,439.12	
For Bituminous Coated, Add	172.69	
33 42 11 00-1492 EA 138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,498.48	
For Bituminous Coated, Add	179.82	

33 42 13 Stormwater Culverts (33 42)**33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0776 for crane lifting equipment.

33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert	447.63	46.91
For Each LF Of Cut-Off Section, Add	17.91	
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert	507.19	46.91
For Each LF Of Cut-Off Section, Add	20.29	
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert	603.40	46.91
For Each LF Of Cut-Off Section, Add	24.14	
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert	723.32	58.64
For Each LF Of Cut-Off Section, Add	28.93	
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert	741.64	58.64
For Each LF Of Cut-Off Section, Add	29.67	
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert	750.81	58.64
For Each LF Of Cut-Off Section, Add	30.03	
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert	773.87	60.98
For Each LF Of Cut-Off Section, Add	30.95	
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert	778.45	60.98
For Each LF Of Cut-Off Section, Add	31.14	
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert	860.92	60.98
For Each LF Of Cut-Off Section, Add	34.44	
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert	879.90	70.36
For Each LF Of Cut-Off Section, Add	35.20	
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert	931.11	95.69
For Each LF Of Cut-Off Section, Add	37.24	
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert	865.50	60.98
For Each LF Of Cut-Off Section, Add	34.62	
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert	884.48	70.36
For Each LF Of Cut-Off Section, Add	35.38	
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert	898.23	70.36
For Each LF Of Cut-Off Section, Add	35.93	
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,079.43	93.81
For Each LF Of Cut-Off Section, Add	43.18	
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,083.09	93.81
For Each LF Of Cut-Off Section, Add	43.32	
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,191.91	117.26
For Each LF Of Cut-Off Section, Add	47.68	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,197.63	93.81
For Each LF Of Cut-Off Section, Add	47.91	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0020	LF	9' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,258.80 50.35	117.26
33 42 13 13-0021	LF	10' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,263.39 50.54	117.26
33 42 13 13-0022	LF	10' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,547.44 61.90	117.26
33 42 13 13-0023	LF	10' x 5' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,613.19 64.53	140.72
33 42 13 13-0024	LF	10' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,631.51 65.26	140.72
33 42 13 13-0025	LF	10' x 7' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,636.09 65.44	140.72
33 42 13 13-0026	LF	10' x 8' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,642.51 65.70	140.72
33 42 13 13-0027	LF	12' x 3' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,697.26 67.89	164.17
33 42 13 13-0028	LF	12' x 4' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,697.26 67.89	164.17
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,697.26 67.89	164.17
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	1,697.26 67.89	164.17
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	2,496.04 99.84	187.62
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert <i>For Each LF Of Cut-Off Section, Add</i>	3,503.97 140.16	187.62
33 42 13 13-0033		Precast Reinforced Concrete Box Culvert For Roadways <small>(33 42 13 13)</small> Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0776 for crane lifting equipment.		
33 42 13 13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,149.05 45.96	46.91
33 42 13 13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,237.06 49.48	46.91
33 42 13 13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,392.83 55.71	46.91
33 42 13 13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,572.26 62.89	58.64
33 42 13 13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,728.02 69.12	58.64
33 42 13 13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,883.78 75.35	58.64
33 42 13 13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,732.76 69.31	60.98
33 42 13 13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,888.52 75.54	60.98
33 42 13 13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,200.05 88.00	60.98
33 42 13 13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,063.27 82.53	70.36
33 42 13 13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,425.96 97.04	95.69
33 42 13 13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	1,888.52 75.54	60.98
33 42 13 13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,063.27 82.53	70.36
33 42 13 13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,219.03 88.76	70.36
33 42 13 13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,422.17 96.89	93.81
33 42 13 13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,577.94 103.12	93.81
33 42 13 13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,936.89 117.48	117.26
33 42 13 13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,603.43 104.14	93.81
33 42 13 13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,983.77 119.35	117.26
33 42 13 13-0053	LF	10' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	2,949.87 117.99	117.26
33 42 13 13-0054	LF	10' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,134.83 125.39	117.26
33 42 13 13-0055	LF	10' x 5' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,367.19 134.69	140.72
33 42 13 13-0056	LF	10' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,552.15 142.09	140.72
33 42 13 13-0057	LF	10' x 7' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,737.13 149.49	140.72
33 42 13 13-0058	LF	10' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,922.09 156.88	140.72

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	3,906.57 156.26	164.17
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,116.80 164.67	164.17
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,537.35 181.49	164.17
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	4,957.89 198.32	164.17
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	5,939.85 237.59	187.62
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways <i>For Each LF Of Cut-Off Section, Add</i>	7,528.55 301.14	187.62

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)**33 42 23 00-0001 Headwalls (33 42 23)**

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,410.84	638.56
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,777.68	681.13
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,321.61	892.18
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	3,626.11	1,277.11
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,038.15	1,702.81
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,133.21	2,244.50
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	8,452.25	3,096.00
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	10,048.62	3,648.85
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	12,088.90	4,442.18
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,508.45	5,377.31

33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)

33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	756.48	158.46
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	782.89	167.26
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	861.83	190.16
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	951.97	202.48
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,276.98	237.69
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,434.88	246.50
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	1,883.70	289.50
33 42 23 00-0022 EA 48" Pipe, Precast Concrete Headwall	2,079.71	318.96
33 42 23 00-0023 EA 54" Pipe, Precast Concrete Headwall	2,295.13	337.72
33 42 23 00-0024 EA 60" Pipe, Precast Concrete Headwall	2,604.20	337.72
33 42 23 00-0025 EA 72" Pipe, Precast Concrete Headwall	3,147.27	422.15
33 42 23 00-0026 EA 84" Pipe, Precast Concrete Headwall	4,458.25	506.59

33 42 23 00-0027 Precast Concrete Wingwalls (33 42 23 00-0001)

33 42 23 00-0028 EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall	4,716.17	1,671.73
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029 EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall	4,997.60	1,857.48
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030 EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall	5,466.67	2,167.06
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031 EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall	5,935.72	2,476.63
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032 EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall	5,935.72	2,476.63
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033 EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall	6,123.35	2,600.47
Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034 EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall	10,538.25	2,662.38
Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035 EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall	10,819.69	2,848.13
Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		

33 42 23 00-0036 Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)

33 42 23 00-0037 EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	3,941.10	656.69
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33 42 26 End Sections for Stormwater Piping (33 42)**33 42 26 16 Corrugated Metal End Sections for Stormwater Piping (33 42 26)**

33 42 26 16-0001 Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003 Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	229.76	61.62
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	265.26	66.03
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	308.02	70.43
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	370.95	77.03
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	410.49	83.63
33 42 26 16-0009		Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	651.74	94.64
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	844.48	112.58
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,284.13	131.33
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,566.08	150.10
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,867.83	187.62
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,182.86	225.14
33 42 26 16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	239.28	61.62
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	275.05	66.03
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	323.06	70.43
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	389.01	77.03
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	430.97	83.63
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	714.63	94.64
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	921.20	112.58
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,454.65	131.33
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,786.14	150.10
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,090.36	187.62
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,887.68	225.14
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,298.59	337.72
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,874.28	450.30
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,218.24	483.14
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,570.33	515.96
33 42 26 16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)		
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	29.24	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	32.49	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	36.48	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	39.65	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	44.33	
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	76.79	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	82.65	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	112.56	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	120.64	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	147.10	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	150.91	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	161.58	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	185.32	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	207.16	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	212.58	
33 42 26 16-0048		Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0049		Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
		Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	265.26	66.03
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	308.02	70.43
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	370.95	77.03
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	410.49	83.63
33 42 26 16-0054		Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
		Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	257.05	66.03
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	292.82	70.43
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	327.45	77.03
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	368.95	83.63
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	533.33	94.64
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	771.95	112.58
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,190.52	131.33
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,503.71	150.10
33 42 26 16-0063		Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)		
		Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	261.22	66.03
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	301.88	70.43
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	341.62	77.03

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0067 EA 28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	385.75	83.63
33 42 26 16-0068 EA 35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	561.87	94.64
33 42 26 16-0069 EA 42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	810.88	112.58
33 42 26 16-0070 EA 49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,252.80	131.33
33 42 26 16-0071 EA 57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,575.39	150.10
33 42 26 16-0072 EA 64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,897.28	187.62
33 42 26 16-0073 EA 71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,488.67	225.14
33 42 26 16-0074 EA 77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,479.44	337.72
33 42 26 16-0075 EA 83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,871.88	450.30
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section <small>(33 42 26 16-0048)</small>		
33 42 26 16-0077 EA Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	32.49	
33 42 26 16-0078 EA Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	36.48	
33 42 26 16-0079 EA Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	39.65	
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	44.33	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	76.79	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	82.65	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	112.56	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	125.35	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	147.10	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	152.78	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	176.87	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	202.14	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections <small>(33 42 26 16-0001)</small>		
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections <small>(33 42 26 16-0089)</small>		
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	340.36	61.62
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	391.19	66.03
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	462.13	70.43
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	570.74	77.03
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	741.83	83.63
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,105.96	94.64
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,500.39	112.58
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	1,862.24	112.58
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,372.77	131.33
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,379.21	150.10
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,747.32	187.62
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,045.29	225.14
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,731.00	337.72
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,714.12	450.30
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,331.23	483.14
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,737.01	515.96
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,556.56	562.87
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,683.88	609.78
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section <small>(33 42 26 16-0089)</small>		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	53.27	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	56.43	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	61.15	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	68.76	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	72.99	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	94.64	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	113.56	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	119.60	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	131.16	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	148.25	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	175.12	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	243.12	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	262.74	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	334.72	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	362.43	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	386.27	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	411.27	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	436.62	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections <small>(33 42 26 16-0001)</small>		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections <small>(33 42 26 16-0128)</small>		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	402.89	66.03
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	490.64	70.43
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	532.92	77.03
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	575.16	83.63
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	855.95	94.64
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,517.02	112.58
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,608.76	112.58



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,146.49	131.33
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,291.09	150.10
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,771.24	187.62
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,559.44	225.14
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,630.13	337.72
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,027.54	450.30
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,739.15	483.14
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,123.81	515.96
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,945.10	562.87
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,538.32	609.78
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42		
<i>26 16-0128)</i>		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	56.43	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	61.15	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	64.53	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	70.67	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	81.34	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	105.92	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	115.55	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	131.16	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	148.25	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	175.12	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	221.69	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	280.68	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	379.57	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	430.71	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	451.40	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	468.42	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	489.12	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	515.21	66.03
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	660.92	70.43
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	807.65	77.03
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	964.69	83.63
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,021.71	94.64
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,334.31	112.58
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,101.29	131.33
33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End		
Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	364.75	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	726.03	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	796.71	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	828.59	
33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	538.97	66.03
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	703.66	70.43
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	933.41	77.03
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,095.40	83.63
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,299.20	94.64
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,579.23	112.58
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,407.72	131.33
33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End		
Sections (33 42 26 16-0165)		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	706.36	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	750.24	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	825.32	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	868.21	
33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42		
<i>26 16-0165)</i>		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	62.73	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	70.28	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	76.48	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	85.35	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	127.54	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	136.88	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	183.26	
33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	610.87	70.43
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	764.53	77.03
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	903.63	83.63
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,692.10	94.64
33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
Note: Includes nut and bolt set.		
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	433.88	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	786.24	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	828.59	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,217.22	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	63.46	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	71.91	
33 42 26 16-0214 EA Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	78.39	
33 42 26 16-0215 EA Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	93.70	
33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002 EA 4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	58.06	20.39
33 42 26 19-0003 EA 6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	106.10	30.59
33 42 26 19-0004 EA 8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	143.14	38.23
33 42 26 19-0005 EA 10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	225.72	61.17
33 42 26 19-0006 EA 12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	266.98	68.82
33 42 26 19-0007 EA 15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	283.64	73.92
33 42 26 19-0008 EA 18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	336.12	81.56
33 42 26 19-0009 EA 24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	431.92	96.85
33 42 26 19-0010 EA 30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	865.69	109.60
33 42 26 19-0011 EA 36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	1,052.81	122.34
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)		
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)		
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section.....	552.07	103.27
33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section.....	738.88	127.83
33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section.....	915.59	161.81
33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section.....	1,052.33	193.50
33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section.....	1,122.23	223.96
33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section.....	1,415.75	279.56
33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section.....	1,763.78	419.90
33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section.....	2,180.10	529.85
33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section.....	2,642.51	664.66
33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section.....	2,900.56	749.56
33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section.....	3,168.31	839.61
33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section.....	3,443.01	933.42
33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section.....	3,395.02	750.50
33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section.....	3,904.81	938.10
33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section.....	4,654.57	1,172.62
33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section.....	5,511.68	1,407.15
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section.....	689.94	109.30
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section.....	831.64	136.21
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section.....	1,011.12	172.43
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section.....	1,157.29	206.20
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section.....	1,409.45	238.66
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section.....	1,719.25	381.16
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section.....	1,815.54	524.78
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section.....	2,443.21	662.31
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section.....	2,939.37	830.98
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section.....	3,188.50	937.18
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section.....	3,566.67	1,049.66



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0031	EA 60" Diameter Pipe, Flared Precast Concrete End Section.....	3,952.41	1,165.90
33 42 26 23-0032	EA 66" Diameter Pipe, Flared Precast Concrete End Section.....	4,606.44	1,343.29
33 42 26 23-0033	EA 72" Diameter Pipe, Flared Precast Concrete End Section.....	5,358.75	1,499.30
33 42 26 23-0034	EA 78" Diameter Pipe, Flared Precast Concrete End Section.....	6,073.81	1,686.64
33 42 26 23-0035	EA 84" Diameter Pipe, Flared Precast Concrete End Section.....	6,991.44	1,873.80
33 42 26 23-0036	Elliptical Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0037	EA 14" x 23" Elliptical Precast Concrete End Section	1,199.17	172.43
33 42 26 23-0038	EA 19" x 30" Elliptical Precast Concrete End Section	1,672.22	238.66
33 42 26 23-0039	EA 22" x 34" Elliptical Precast Concrete End Section	2,005.99	381.16
33 42 26 23-0040	EA 24" x 38" Elliptical Precast Concrete End Section	2,072.41	524.78
33 42 26 23-0041	EA 27" x 42" Elliptical Precast Concrete End Section	2,438.92	593.83
33 42 26 23-0042	EA 29" x 45" Elliptical Precast Concrete End Section	2,805.42	662.31
33 42 26 23-0043	EA 34" x 53" Elliptical Precast Concrete End Section	3,362.34	830.98
33 42 26 23-0044	EA 38" x 60" Elliptical Precast Concrete End Section	3,633.86	937.18
33 42 26 23-0045	EA 43" x 68" Elliptical Precast Concrete End Section	4,064.35	1,049.66
33 42 26 23-0046	EA 48" x 76" Elliptical Precast Concrete End Section	4,502.72	1,165.90
33 42 26 23-0047	Mitered Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0048	EA 12" Round Mitered Precast Concrete End Sections	426.44	109.30
33 42 26 23-0049	EA 15" Round Mitered Precast Concrete End Sections	465.84	136.21
33 42 26 23-0050	EA 18" Round Mitered Precast Concrete End Sections	562.28	172.43
33 42 26 23-0051	EA 24" Round Mitered Precast Concrete End Sections	813.41	238.66
33 42 26 23-0052	EA 12" x 18" Elliptical Mitered Precast Concrete End Sections.....	498.74	136.21
33 42 26 23-0053	EA 14" x 23" Elliptical Mitered Precast Concrete End Sections.....	620.76	172.43
33 42 26 23-0054	EA 19" x 30" Elliptical Mitered Precast Concrete End Sections.....	884.67	238.66
33 42 31	Stormwater Area Drains and Inlets (33 42)		
33 42 31 00-0001	Storm Drains (33 42 31) See CSI section 33 05 61 00-0001 for manhole structures.		
33 42 31 00-0002	Catch Basins And Inlet Basins (33 42 31 00-0001) Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003	Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002) Note: Inside dimensions.		
33 42 31 00-0004	3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0005	EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,831.47	314.08
33 42 31 00-0006	EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,196.45	368.00
33 42 31 00-0007	EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,561.43	421.82
33 42 31 00-0008	EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,926.39	475.75
33 42 31 00-0009	EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,291.38	529.58
33 42 31 00-0010	3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0011	EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,455.08	312.19
33 42 31 00-0012	EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,013.95	416.25
33 42 31 00-0013	EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,808.73	567.60
33 42 31 00-0014	EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,669.30	662.20
33 42 31 00-0015	EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,303.42	756.81
33 42 31 00-0016	4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017	EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,644.72	340.56
33 42 31 00-0018	EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,668.22	473.01
33 42 31 00-0019	EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,436.34	614.91
33 42 31 00-0020	EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,121.71	709.51
33 42 31 00-0021	EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,486.11	908.16
33 42 31 00-0022	Cast In Place, Catch Basin (33 42 31 00-0002) Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023	3' x 3', Cast In Place, Catch Basins (33 42 31 00-0002)		
33 42 31 00-0024	EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,219.85	379.73
33 42 31 00-0025	EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,353.16	403.75
33 42 31 00-0026	EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,572.19	433.65
33 42 31 00-0027	EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	2,909.60	480.00
33 42 31 00-0028	EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,140.00	510.94
33 42 31 00-0029	EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,287.31	535.82
33 42 31 00-0030	EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,517.88	566.75
33 42 31 00-0031	EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,661.68	591.73
33 42 31 00-0032	EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,893.49	622.57
33 42 31 00-0033	EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,039.57	647.55
33 42 31 00-0034	EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,270.06	678.47
33 42 31 00-0035	VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	533.78	84.76

33	33	Utilities
	33 40	Stormwater Utilities
	33 42	Stormwater Conveyance



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0036	3'-6" x 3'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0037	EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,553.42	438.95
33 42 31 00-0038	EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,721.58	469.79
33 42 31 00-0039	EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	2,950.56	500.73
33 42 31 00-0040	EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,345.03	554.55
33 42 31 00-0041	EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,598.05	589.55
33 42 31 00-0042	EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	3,767.81	618.59
33 42 31 00-0043	EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,024.17	653.60
33 42 31 00-0044	EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,193.93	682.64
33 42 31 00-0045	EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,448.08	717.64
33 42 31 00-0046	EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,618.82	746.68
33 42 31 00-0047	EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,873.07	781.69
33 42 31 00-0048	VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	609.16	97.72
33 42 31 00-0049	4' x 4', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0050	EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	2,910.28	502.14
33 42 31 00-0051	EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	3,088.39	534.02
33 42 31 00-0052	EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin.....	3,350.99	571.77
33 42 31 00-0053	EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	3,803.09	633.16
33 42 31 00-0054	EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,081.99	672.24
33 42 31 00-0055	EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,276.30	705.44
33 42 31 00-0056	EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,555.20	744.51
33 42 31 00-0057	EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,748.52	777.71
33 42 31 00-0058	EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,027.43	816.78
33 42 31 00-0059	EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,221.74	849.98
33 42 31 00-0060	EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,500.64	889.15
33 42 31 00-0061	VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin.....	687.54	111.16
33 42 31 00-0062	4'-6" x 4'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0063	EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,353.47	582.27
33 42 31 00-0064	EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,560.44	615.19
33 42 31 00-0065	EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	3,849.78	657.76
33 42 31 00-0066	EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,365.48	727.57
33 42 31 00-0067	EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,673.88	771.66
33 42 31 00-0068	EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	4,897.82	809.78
33 42 31 00-0069	EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,207.21	853.87
33 42 31 00-0070	EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,431.13	892.09
33 42 31 00-0071	EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,739.54	936.18
33 42 31 00-0072	EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,962.25	974.29
33 42 31 00-0073	EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,272.86	1,018.38
33 42 31 00-0074	VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	784.16	127.33
33 42 31 00-0075	5' x 5', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0076	EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin.....	4,309.47	738.55
33 42 31 00-0077	EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	4,883.83	816.12
33 42 31 00-0078	EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,218.48	864.46
33 42 31 00-0079	EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,467.43	906.85
33 42 31 00-0080	EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	5,798.67	955.09
33 42 31 00-0081	EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,048.84	997.47
33 42 31 00-0082	EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,382.29	1,045.81
33 42 31 00-0083	EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,629.03	1,088.20
33 42 31 00-0084	EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,963.70	1,136.44
33 42 31 00-0085	VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,243.14	142.09
33 42 31 00-0086	5'-6" x 5'-6", Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0087	EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	4,790.73	823.59
33 42 31 00-0088	EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,584.94	932.30
33 42 31 00-0089	EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	5,953.66	986.02
33 42 31 00-0090	EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,236.65	1,034.18
33 42 31 00-0091	EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,607.56	1,088.29
33 42 31 00-0092	EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	6,891.78	1,136.44
33 42 31 00-0093	EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,260.49	1,190.56
33 42 31 00-0094	EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,543.48	1,238.70
33 42 31 00-0095	EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,912.20	1,292.81
33 42 31 00-0096	VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	989.03	161.58
33 42 31 00-0097	6' x 6', Cast In Place, Catch Basins <small>(33 42 31 00-0022)</small>		
33 42 31 00-0098	EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin.....	5,297.85	912.62
33 42 31 00-0099	EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,172.75	1,031.90
33 42 31 00-0100	EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,568.28	1,090.37
33 42 31 00-0101	EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,877.10	1,142.88
33 42 31 00-0102	EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,271.40	1,201.34
33 42 31 00-0103	EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,582.45	1,253.84
33 42 31 00-0104	EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,975.77	1,312.30



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0105	EA		7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,285.57	1,364.81
33 42 31 00-0106	EA		8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,681.10	1,423.27
33 42 31 00-0107	VLF		>8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,085.18	177.94
33 42 31 00-0108			6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109	EA		4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,827.43	1,005.90
33 42 31 00-0110	EA		4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,986.77	1,165.39
33 42 31 00-0111	EA		5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,419.37	1,230.10
33 42 31 00-0112	EA		5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,767.36	1,288.85
33 42 31 00-0113	EA		6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,199.95	1,353.45
33 42 31 00-0114	EA		6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,547.95	1,412.30
33 42 31 00-0115	EA		7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,980.54	1,476.91
33 42 31 00-0116	EA		7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,328.54	1,535.65
33 42 31 00-0117	EA		8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,763.33	1,600.36
33 42 31 00-0118	VLF		>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,220.37	200.08
33 42 31 00-0119			7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120	EA		4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,380.86	1,103.23
33 42 31 00-0121	EA		4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	7,648.73	1,277.30
33 42 31 00-0122	EA		5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,108.69	1,346.55
33 42 31 00-0123	EA		5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,481.97	1,409.74
33 42 31 00-0124	EA		6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,943.06	1,478.89
33 42 31 00-0125	EA		6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,316.35	1,542.18
33 42 31 00-0126	EA		7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,776.32	1,611.34
33 42 31 00-0127	EA		7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,150.82	1,674.63
33 42 31 00-0128	EA		8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,610.69	1,743.78
33 42 31 00-0129	VLF		>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,326.38	217.96
33 42 31 00-0130			7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131	EA		4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,188.08	1,238.23
33 42 31 00-0132	EA		4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,338.15	1,393.75
33 42 31 00-0133	EA		5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,823.30	1,467.45
33 42 31 00-0134	EA		5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,225.19	1,535.18
33 42 31 00-0135	EA		6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,711.46	1,608.88
33 42 31 00-0136	EA		6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,113.35	1,676.61
33 42 31 00-0137	EA		7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,598.50	1,750.30
33 42 31 00-0138	EA		7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,000.38	1,818.04
33 42 31 00-0139	EA		8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,486.75	1,891.74
33 42 31 00-0140	VLF		>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,435.81	236.50
33 42 31 00-0141			8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142	EA		4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	7,810.91	1,347.21
33 42 31 00-0143	EA		4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,052.66	1,514.75
33 42 31 00-0144	EA		5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,564.31	1,592.89
33 42 31 00-0145	EA		5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,993.58	1,665.16
33 42 31 00-0146	EA		6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,505.13	1,743.31
33 42 31 00-0147	EA		6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,931.95	1,815.58
33 42 31 00-0148	EA		7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,445.94	1,893.72
33 42 31 00-0149	EA		7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,875.21	1,965.99
33 42 31 00-0150	EA		8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,378.36	2,044.14
33 42 31 00-0151	VLF		>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,548.35	255.52
33 42 31 00-0152			Precast Concrete Catch Basins (33 42 31 00-0002)		
			Note: Inside dimensions.		
33 42 31 00-0153			1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154	EA		4' Deep, 1'-6" Diameter Precast Catch Basins.....	718.32	191.22
33 42 31 00-0155	EA		6' Deep, 1'-6" Diameter Precast Catch Basins.....	983.63	286.83
33 42 31 00-0156	EA		8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,233.36	372.89
33 42 31 00-0157	EA		10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,484.23	440.78
33 42 31 00-0158	EA		12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,814.42	559.33
33 42 31 00-0159	EA		14' Deep, 1'-6" Diameter Precast Catch Basins.....	2,071.13	645.38
33 42 31 00-0160	VLF		Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins.....	142.99	43.03
33 42 31 00-0161			2' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0162	EA		4' Deep, 2' Diameter Precast Catch Basin.....	822.48	212.74
33 42 31 00-0163	EA		6' Deep, 2' Diameter Precast Catch Basin.....	1,119.86	315.52
33 42 31 00-0164	EA		8' Deep, 2' Diameter Precast Catch Basin.....	1,399.19	415.91
33 42 31 00-0165	EA		10' Deep, 2' Diameter Precast Catch Basin.....	1,679.35	485.23
33 42 31 00-0166	EA		12' Deep, 2' Diameter Precast Catch Basin.....	2,063.42	621.49
33 42 31 00-0167	EA		14' Deep, 2' Diameter Precast Catch Basin.....	2,352.51	717.10
33 42 31 00-0168	VLF		Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin.....	162.41	51.63

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin	1,111.59	250.98
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin	1,492.82	370.98
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin	1,854.61	490.01
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin	2,310.04	611.93
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin	2,721.13	729.52
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin	3,114.23	849.04
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	212.31	60.65
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin	1,365.53	279.19
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin	1,759.42	382.45
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin	2,303.65	573.68
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin	2,874.16	717.10
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin	3,387.11	860.51
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin	3,878.79	1,003.93
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	263.73	71.71
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin	1,832.75	382.45
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin	2,466.60	573.68
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin	3,103.29	764.90
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin	3,780.40	956.13
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin	4,444.04	1,147.35
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin	5,163.91	1,338.58
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	350.75	95.61
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin	2,670.30	573.68
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin	3,550.07	860.51
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin	4,501.70	1,147.35
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin	5,606.77	1,434.19
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin	6,671.10	1,721.03
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin	7,702.14	2,007.86
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	522.11	143.42
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,373.91	621.49
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin	810.11	76.49
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	421.81	81.27
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring	511.86	119.52
For Each Additional Inch In Height, Add	65.38	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring	601.68	143.42
For Each Additional Inch In Height, Add	76.36	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring	702.04	167.33
For Each Additional Inch In Height, Add	89.16	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring	853.45	239.03
For Each Additional Inch In Height, Add	102.45	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	573.65	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser	341.48	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser	380.52	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser	426.92	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	367.53	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	409.18	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	460.60	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	406.23	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	443.26	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	494.87	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	4,710.08	749.05
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,357.14	854.81
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,072.12	970.13
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,293.21	1,163.78
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	8,825.56	1,405.01
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227) <i>Note: Yard inlet.</i>		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	654.16	66.92
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	769.57	81.27
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	884.96	95.61
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,001.56	110.56
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	167.99	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	269.04	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	379.67	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	490.29	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	600.92	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	711.52	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,350.31	187.62
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,520.08	216.94
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,689.84	246.26
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,859.73	275.65
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,029.64	305.03
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,199.55	334.42
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,369.45	363.80
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	329.23	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	524.57	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	572.42	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	731.34	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	890.28	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,042.01	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,211.78	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,381.54	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,551.44	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,721.34	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,891.25	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,061.15	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,306.66	206.39
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,477.22	238.63
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,647.78	270.88
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,818.50	303.21
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,989.23	335.53
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,159.95	367.86
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,330.67	400.18
33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	327.02	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	515.21	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	564.01	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	719.79	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	875.59	
33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,030.44	
33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,198.43	
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,365.48	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,533.47	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,700.52	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,868.51	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,036.49	
33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,550.51	225.14
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,750.69	261.73
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,950.88	299.26
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,150.12	335.85
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,350.31	373.37

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,550.49	409.96
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,749.74	446.55
33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	359.85	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	578.98	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	629.17	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	805.43	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	981.70	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,157.97	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,346.89	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,535.82	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,724.74	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	1,913.67	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,102.61	
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,291.53	
33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab.....	881.86	140.72
33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,187.72	250.17
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,453.80	291.29
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,719.87	332.41
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,985.66	373.38
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,251.44	414.34
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,517.21	455.31
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,783.00	496.28
33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	362.08	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	570.94	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	832.95	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,094.97	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,341.35	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,603.37	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,869.45	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,135.52	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,401.31	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,667.09	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,932.86	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,198.65	
33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab.....	958.36	152.45
33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,526.72	315.21
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,820.58	367.87
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,114.45	420.53
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,407.73	472.91
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,701.01	525.28
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,994.29	577.65
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,287.57	630.02
33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	398.68	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	613.47	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	907.09	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,200.69	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,468.02	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,761.63	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,055.49	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,349.35	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,642.64	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,935.91	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,229.20	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,522.48	



Utilities		33	
Stormwater Utilities		33 40	CS
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0355		48" x 66" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0333)</small>		
33 42 31 00-0356	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab.....	1,065.70	170.74
33 42 31 00-0357		42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0227)</small>		
33 42 31 00-0358		42" x 102" ID, Precast Concrete Inlet Boxes <small>(33 42 31 00-0357)</small>		
33 42 31 00-0359	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,169.88	424.97
33 42 31 00-0360	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,542.29	495.33
33 42 31 00-0361	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,914.68	564.74
33 42 31 00-0362	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,286.16	635.10
33 42 31 00-0363	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,658.55	704.53
33 42 31 00-0364	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,030.01	773.95
33 42 31 00-0365	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,403.35	844.31
33 42 31 00-0366		42" x 102" ID, Precast Concrete Inlet Box Risers <small>(33 42 31 00-0357)</small>		
33 42 31 00-0367	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	535.63	
33 42 31 00-0368	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	810.47	
33 42 31 00-0369	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,176.31	
33 42 31 00-0370	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,542.14	
33 42 31 00-0371	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,880.77	
33 42 31 00-0372	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,246.60	
33 42 31 00-0373	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,619.02	
33 42 31 00-0374	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,991.41	
33 42 31 00-0375	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,362.88	
33 42 31 00-0376	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,735.27	
33 42 31 00-0377	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,106.73	
33 42 31 00-0378	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,479.15	
33 42 31 00-0379		42" x 102" ID, Precast Concrete Inlet Box Tops <small>(33 42 31 00-0357)</small>		
33 42 31 00-0380	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab.....	1,445.51	187.62
33 42 31 00-0381		Frames And Grates For Inlets <small>(33 42 31 00-0226)</small>		
33 42 31 00-0382		Inlet Frames And Grates <small>(33 42 31 00-0381)</small>		
33 42 31 00-0383	EA	24" x 24", Heavy Duty Inlet Grate..... Note: For type A, B, D, or E inlets.	337.37	44.01
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)..... Note: For type A, B, D, or E inlets.	436.94	44.01
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)..... Note: Includes legend: Dump No Waste "Drains To Waterways".	436.94	44.01
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)..... Note: Legend: Dump No Waste "Drains to Waterways"	436.94	44.01
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	478.48	44.01
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK).....	358.82	88.04
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	416.97	88.04
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)..... Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".	519.15	110.04
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	444.38	110.04
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	452.69	110.04
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	469.31	110.04
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	485.92	110.04
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	469.31	110.04
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	485.92	110.04
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	502.53	110.04
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	718.52	110.04
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	751.75	110.04
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	784.98	110.04
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	535.76	110.04
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6).....	485.92	110.04
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8).....	485.92	110.04
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	984.25	110.04
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	984.25	110.04
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB).....	408.23	121.05
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	566.07	121.05
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	566.07	121.05
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)..... Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.	624.22	121.05
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM).....	715.60	121.05
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM).....	615.91	121.05
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202).....	873.44	121.05
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002).....	773.75	121.05
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,000.10	176.06
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,598.22	176.06
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340).....	975.18	176.06

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0417	EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,520.13	176.06
33 42 31 00-0418	EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340).....	1,633.06	264.10
33 42 31 00-0419	EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,681.70	352.14
33 42 31 00-0420	EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	1,842.37	352.14
33 42 31 00-0421	EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	1,842.37	352.14
33 42 31 00-0422	EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266).....	1,634.69	352.14
33 42 31 00-0423	EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268).....	1,634.69	352.14
33 42 31 00-0424	EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	1,908.82	352.14
33 42 31 00-0425	Catch Basin Frames And Covers <small>(33 42 31 00-0001)</small>		
33 42 31 00-0426	Cast Iron Frames And Covers <small>(33 42 31 00-0425)</small>		
33 42 31 00-0427	EA 18" Diameter Cast Iron Catch Basin Frame And Cover.....	410.72	95.61
33 42 31 00-0428	EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	506.28	108.04
33 42 31 00-0429	EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	561.78	111.86
33 42 31 00-0430	EA 26" Diameter Cast Iron Catch Basin Frame And Cover.....	628.61	130.03
33 42 31 00-0431	EA 28" Diameter Cast Iron Catch Basin Frame And Cover.....	722.17	148.20
33 42 31 00-0432	EA 32" Diameter Cast Iron Catch Basin Frame And Cover.....	1,097.72	154.89
33 42 31 00-0433	EA 16" x 16" Cast Iron Catch Basin Frame And Cover.....	615.52	117.61
33 42 31 00-0434	EA 18" x 24" Cast Iron Catch Basin Frame And Cover.....	785.65	135.77
33 42 31 00-0435	EA 20" x 27" Cast Iron Catch Basin Frame And Cover.....	877.39	141.51
33 42 31 00-0436	EA 23" x 23" Cast Iron Catch Basin Frame And Cover.....	836.28	141.51
33 42 31 00-0437	EA 24" x 24" Cast Iron Catch Basin Frame And Cover.....	865.42	147.24
33 42 31 00-0438	EA 26" x 26" Cast Iron Catch Basin Frame And Cover.....	924.70	152.98
33 42 31 00-0439	EA 24" x 36" Cast Iron Catch Basin Frame And Cover.....	1,093.77	164.46
33 42 31 00-0440	Area Yard Drain <small>(33 42 31 00-0001)</small>		
	See CSI section 22 14 26 16-0001 for drains.		
33 42 31 00-0441	Ductile Iron Grates <small>(33 42 31 00-0440)</small>		
	Note: Not for traffic loading.		
33 42 31 00-0442	EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe.....	161.88	38.23
33 42 31 00-0443	EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe.....	198.42	40.78
33 42 31 00-0444	EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	461.45	50.98
33 42 31 00-0445	EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe.....	551.39	61.17
33 42 31 00-0446	Concrete Drainage Inlet Structures (CALTRANS) <small>(33 42 31 00-0001)</small>		
33 42 31 00-0447	Type OS Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0448	EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,135.93	
33 42 31 00-0449	EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	3,648.03	
33 42 31 00-0450	EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,125.34	
33 42 31 00-0451	EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,567.87	
33 42 31 00-0452	EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,975.61	
33 42 31 00-0453	EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,348.57	
33 42 31 00-0454	EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	7,277.87	
33 42 31 00-0455	EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,490.67	
33 42 31 00-0456	EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,612.98	
33 42 31 00-0457	EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,646.67	
33 42 31 00-0458	EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,650.13	
33 42 31 00-0459	EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,577.55	
33 42 31 00-0460	EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,428.92	
33 42 31 00-0461	Type OL-7 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0462	EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,270.20	
33 42 31 00-0463	EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	4,750.48	
33 42 31 00-0464	EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,195.97	
33 42 31 00-0465	EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,606.68	
33 42 31 00-0466	EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,981.63	
33 42 31 00-0467	EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,322.76	
33 42 31 00-0468	EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	8,194.76	
33 42 31 00-0469	EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,379.93	
33 42 31 00-0470	EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	10,474.59	
33 42 31 00-0471	EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	11,479.68	
33 42 31 00-0472	EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	12,459.69	
33 42 31 00-0473	EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	13,363.64	
33 42 31 00-0474	EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	14,191.56	
33 42 31 00-0475	Type OL-10 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0476	EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,315.51	
33 42 31 00-0477	EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	5,766.67	
33 42 31 00-0478	EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,182.09	
33 42 31 00-0479	EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,563.67	
33 42 31 00-0480	EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	6,909.50	
33 42 31 00-0481	EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness.....	7,220.57	
33 42 31 00-0482	EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness.....	9,111.66	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0483 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,268.23	
33 42 31 00-0484 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,336.18	
33 42 31 00-0485 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,313.64	
33 42 31 00-0486 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,269.23	
33 42 31 00-0487 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,149.74	
33 42 31 00-0488 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,953.25	
33 42 31 00-0489 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0490 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,805.63	
33 42 31 00-0491 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,214.16	
33 42 31 00-0492 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,587.90	
33 42 31 00-0493 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,926.84	
33 42 31 00-0494 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,231.02	
33 42 31 00-0495 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,500.40	
33 42 31 00-0496 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,410.60	
33 42 31 00-0497 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,527.93	
33 42 31 00-0498 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,555.69	
33 42 31 00-0499 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,493.88	
33 42 31 00-0500 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,417.13	
33 42 31 00-0501 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,263.38	
33 42 31 00-0502 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,033.57	
33 42 31 00-0503 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0504 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,830.37	
33 42 31 00-0505 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,153.71	
33 42 31 00-0506 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,442.26	
33 42 31 00-0507 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,696.04	
33 42 31 00-0508 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,914.07	
33 42 31 00-0509 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,098.27	
33 42 31 00-0510 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,951.16	
33 42 31 00-0511 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,991.30	
33 42 31 00-0512 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,941.90	
33 42 31 00-0513 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,802.92	
33 42 31 00-0514 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,660.61	
33 42 31 00-0515 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,441.28	
33 42 31 00-0516 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,145.92	
33 42 31 00-0517 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0518 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,182.07	
33 42 31 00-0519 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,712.64	
33 42 31 00-0520 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,203.46	
33 42 31 00-0521 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,654.51	
33 42 31 00-0522 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,066.78	
33 42 31 00-0523 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,440.24	
33 42 31 00-0524 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,474.60	
33 42 31 00-0525 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,794.89	
33 42 31 00-0526 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,014.53	
33 42 31 00-0527 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,132.61	
33 42 31 00-0528 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,224.59	
33 42 31 00-0529 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,231.10	
33 42 31 00-0530 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,151.18	
33 42 31 00-0531 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0532 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,316.34	
33 42 31 00-0533 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,814.13	
33 42 31 00-0534 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,273.12	
33 42 31 00-0535 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,693.31	
33 42 31 00-0536 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,073.75	
33 42 31 00-0537 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,414.43	
33 42 31 00-0538 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,448.79	
33 42 31 00-0539 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,739.19	
33 42 31 00-0540 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,928.91	
33 42 31 00-0541 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,018.02	
33 42 31 00-0542 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,084.56	
33 42 31 00-0543 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,065.61	
33 42 31 00-0544 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,961.18	
33 42 31 00-0545 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0546 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,112.86	
33 42 31 00-0547 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,529.09	
33 42 31 00-0548 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,916.55	
33 42 31 00-0549 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,277.17	
33 42 31 00-0550 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,610.92	
33 42 31 00-0551 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,915.91	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0552 Type G-2 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0553 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,913.53	
33 42 31 00-0554 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.23	
33 42 31 00-0555 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,819.11	
33 42 31 00-0556 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,224.17	
33 42 31 00-0557 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,597.41	
33 42 31 00-0558 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,937.87	
33 42 31 00-0559 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,685.71	
33 42 31 00-0560 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,804.84	
33 42 31 00-0561 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,841.56	
33 42 31 00-0562 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,795.87	
33 42 31 00-0563 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,722.31	
33 42 31 00-0564 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,578.79	
33 42 31 00-0565 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,364.38	
33 42 31 00-0566 Type G-3 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0567 EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,290.79	
33 42 31 00-0568 EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,701.62	
33 42 31 00-0569 EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,084.63	
33 42 31 00-0570 EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,440.79	
33 42 31 00-0571 EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,768.18	
33 42 31 00-0572 EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,068.73	
33 42 31 00-0573 Type G-4_24 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0574 EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,824.56	
33 42 31 00-0575 EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,295.96	
33 42 31 00-0576 EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,735.56	
33 42 31 00-0577 EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,142.37	
33 42 31 00-0578 EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,518.30	
33 42 31 00-0579 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,861.45	
33 42 31 00-0580 EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,647.50	
33 42 31 00-0581 EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,768.46	
33 42 31 00-0582 EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,806.05	
33 42 31 00-0583 EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,761.24	
33 42 31 00-0584 EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,688.36	
33 42 31 00-0585 EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,545.55	
33 42 31 00-0586 EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,332.80	
33 42 31 00-0587 Type G-4_18 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0588 EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,913.53	
33 42 31 00-0589 EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,382.23	
33 42 31 00-0590 EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,819.11	
33 42 31 00-0591 EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,224.17	
33 42 31 00-0592 EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,597.41	
33 42 31 00-0593 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,937.87	
33 42 31 00-0594 EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,685.71	
33 42 31 00-0595 EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,804.84	
33 42 31 00-0596 EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,841.56	
33 42 31 00-0597 EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,795.87	
33 42 31 00-0598 EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,722.31	
33 42 31 00-0599 EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,578.79	
33 42 31 00-0600 EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,364.38	
33 42 31 00-0601 Type G-5 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0602 EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,268.55	
33 42 31 00-0603 EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,679.81	
33 42 31 00-0604 EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,064.22	
33 42 31 00-0605 EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,419.86	
33 42 31 00-0606 EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,748.65	
33 42 31 00-0607 EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,049.63	
33 42 31 00-0608 Type G-6 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0609 EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,313.03	
33 42 31 00-0610 EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,723.42	
33 42 31 00-0611 EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,106.00	
33 42 31 00-0612 EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,460.78	
33 42 31 00-0613 EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,787.73	
33 42 31 00-0614 EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,087.83	
33 42 31 00-0615 Type GT1 Concrete Drainage Inlet Structure <small>(33 42 31 00-0446)</small>		
33 42 31 00-0616 EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,869.87	
33 42 31 00-0617 EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,512.55	
33 42 31 00-0618 EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,159.56	



	Utilities 33	33
	Stormwater Utilities 33 40	
	Stormwater Conveyance 33 42	

	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 31 00-0619	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,667.56
33 42 31 00-0620	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,178.93
33 42 31 00-0621	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,647.50

33 42 31 00-0622 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0446)

33 42 31 00-0623	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,692.77
33 42 31 00-0624	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,392.80
33 42 31 00-0625	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,043.93
33 42 31 00-0626	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,647.09
33 42 31 00-0627	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,201.35
33 42 31 00-0628	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,707.66
33 42 31 00-0629	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,315.09
33 42 31 00-0630	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,965.18
33 42 31 00-0631	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,492.13
33 42 31 00-0632	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,896.90
33 42 31 00-0633	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,262.70
33 42 31 00-0634	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,523.88
33 42 31 00-0635	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,680.43

33 42 31 00-0636 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0446)

33 42 31 00-0637	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,847.63
33 42 31 00-0638	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,490.74
33 42 31 00-0639	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,091.05
33 42 31 00-0640	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,647.58
33 42 31 00-0641	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,159.40
33 42 31 00-0642	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,628.39

33 42 31 00-0643 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0446)

33 42 31 00-0644	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,848.46
33 42 31 00-0645	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,543.52
33 42 31 00-0646	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,190.64
33 42 31 00-0647	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,788.83
33 42 31 00-0648	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,339.08
33 42 31 00-0649	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,841.37
33 42 31 00-0650	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,334.19
33 42 31 00-0651	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,983.85
33 42 31 00-0652	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,510.36
33 42 31 00-0653	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,913.74
33 42 31 00-0654	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,279.19
33 42 31 00-0655	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,540.01
33 42 31 00-0656	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,696.22

33 42 31 00-0657 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0446)

33 42 31 00-0658	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,757.84
33 42 31 00-0659	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,209.71
33 42 31 00-0660	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,630.63
33 42 31 00-0661	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,020.59
33 42 31 00-0662	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,379.62
33 42 31 00-0663	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,708.64
33 42 31 00-0664	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,475.58
33 42 31 00-0665	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,561.13
33 42 31 00-0666	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,565.23
33 42 31 00-0667	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,489.80
33 42 31 00-0668	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,388.59
33 42 31 00-0669	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,218.02
33 42 31 00-0670	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,979.99

33 42 31 00-0671 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0446)

33 42 31 00-0672	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,602.98
33 42 31 00-0673	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,197.07
33 42 31 00-0674	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,750.63
33 42 31 00-0675	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,264.59
33 42 31 00-0676	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,737.06
33 42 31 00-0677	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	6,169.94
33 42 31 00-0678	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,328.48
33 42 31 00-0679	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,727.78
33 42 31 00-0680	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,023.41
33 42 31 00-0681	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,216.30
33 42 31 00-0682	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,374.71
33 42 31 00-0683	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	14,445.01
33 42 31 00-0684	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	15,427.19

33 42 33 Stormwater Curbside Drains and Inlets (33 42)

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 33 00-0001			Curb Inlet Frames And Covers <small>(33 42 33)</small>		
33 42 33 00-0002			Cast Iron Curb Inlet Frames And Covers <small>(33 42 33 00-0001)</small>		
33 42 33 00-0003	EA		20" x 22" Cast Iron Curb Inlet Frame And Cover	750.28	111.86
33 42 33 00-0004	EA		22" x 24" Cast Iron Curb Inlet Frame And Cover	804.82	130.03
33 42 33 00-0005	EA		24" x 24" Cast Iron Curb Inlet Frame And Cover	831.75	130.03
33 42 33 00-0006	EA		27" x 27" Cast Iron Curb Inlet Frame And Cover	911.47	152.98
33 42 33 00-0007	EA		36" x 24" Cast Iron Curb Inlet Frame And Cover	908.70	163.50
33 42 36			Stormwater Trench Drains <small>(33 42)</small>		
33 42 36 00-0001			Modular Trench Drains <small>(33 42 36)</small>		
33 42 36 00-0002			Modular Trench Drains <small>(33 42 36 00-0001)</small> Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		
33 42 36 00-0003			4" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0004			4 Wide, High Density Polyethylene, Shallow Modular Trench Drains <small>(33 42 36 00-0003)</small>		
33 42 36 00-0005			4 Wide, High Density Polyethylene, Shallow Modular Trench Drains <small>(33 42 36 00-0004)</small>		
33 42 36 00-0006	LF		4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	57.39	15.29
			For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	54.20	
			For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	108.40	
			For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	173.43	
			For Type 304 Stainless Steel Top Veneer Frame, Add	43.36	
			For Aluminum Veneer Bronze Anodized Frame, Add	21.68	
33 42 36 00-0007			Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains <small>(33 42 36 00-0004)</small>		
33 42 36 00-0008	EA		Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	43.29	
33 42 36 00-0009	EA		No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	52.86	
33 42 36 00-0010	EA		No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	52.86	
33 42 36 00-0011			6" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>		
33 42 36 00-0012			6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0013			6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0014	LF		6" Wide, High Density Polyethylene, Modular Trench Drain	123.70	15.29
			For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	54.20	
			For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	108.40	
			For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	173.43	
			For Type 304 Stainless Steel Top Veneer Frame, Add	43.36	
			For Aluminum Veneer Bronze Anodized Frame, Add	21.68	
33 42 36 00-0015			Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0016	EA		Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	58.14	
33 42 36 00-0017	EA		No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	67.71	
33 42 36 00-0018	EA		No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	67.71	
33 42 36 00-0019			Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0012)</small>		
33 42 36 00-0020	EA		Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	103.22	
33 42 36 00-0021	EA		Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	103.22	
33 42 36 00-0022	EA		90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	481.39	
33 42 36 00-0023	EA		Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	914.97	
33 42 36 00-0024	EA		Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	108.40	
33 42 36 00-0025			6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0011)</small>		
33 42 36 00-0026			6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0027	LF		6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	174.64	15.29
			For Black Acid Resistant Coated Frame, Add	41.19	
			For Galvanized Top Frame Assembly, Add	41.19	
			For Type 304 Stainless Steel Top Frame Assembly, Add	151.75	
33 42 36 00-0028			Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>		
33 42 36 00-0029	EA		Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	62.48	
33 42 36 00-0030	EA		No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.05	
33 42 36 00-0031	EA		No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	72.05	



	Utilities	33
	Stormwater Utilities	33 40
	Stormwater Conveyance	33 42

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 36 00-0032	Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0025)</small>	
33 42 36 00-0033 EA	Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.22
33 42 36 00-0034 EA	Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	103.22
33 42 36 00-0035 EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	481.39
33 42 36 00-0036 EA	Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	914.97
33 42 36 00-0037 EA	Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	108.40
33 42 36 00-0038	6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0011)</small>	
33 42 36 00-0039	6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>	
33 42 36 00-0040 LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain	222.34
	<i>For Black Acid Resistant Coated Frame, Add</i>	41.19
	<i>For Galvanized Top Frame Assembly, Add</i>	41.19
	<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	151.75
33 42 36 00-0041	Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>	
33 42 36 00-0042 EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	97.16
33 42 36 00-0043 EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	106.73
33 42 36 00-0044 EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	106.73
33 42 36 00-0045	Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains <small>(33 42 36 00-0038)</small>	
33 42 36 00-0046 EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.22
33 42 36 00-0047 EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	103.22
33 42 36 00-0048 EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	481.39
33 42 36 00-0049 EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	914.97
33 42 36 00-0050 EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	108.40
33 42 36 00-0051	6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0011)</small>	
33 42 36 00-0052	6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>	
33 42 36 00-0053 LF	6" Wide, Polymer Concrete, Modular Trench Drain	386.44
33 42 36 00-0054	Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains <small>(33 42 36 00-0051)</small>	
33 42 36 00-0055 EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	153.59
33 42 36 00-0056 EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	187.43
33 42 36 00-0057 EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	60.44
33 42 36 00-0058	12" Wide, Modular Trench Drains <small>(33 42 36 00-0002)</small>	
33 42 36 00-0059	12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0058)</small>	
33 42 36 00-0060	12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>	
33 42 36 00-0061 LF	12" Wide, High Density Polyethylene, Modular Trench Drain	226.34
	<i>For Acid Resistant Coated Top Frame, Add</i>	56.37
	<i>For Galvanized Welded Frame Assembly, Add</i>	59.08
	<i>For Type 304 Stainless Steel Top Frame, Add</i>	338.19
33 42 36 00-0062	Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>	
33 42 36 00-0063 EA	End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	114.37
33 42 36 00-0064 EA	No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	127.13
33 42 36 00-0065 EA	No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	127.13
33 42 36 00-0066	Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains <small>(33 42 36 00-0059)</small>	
33 42 36 00-0067 EA	Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains	182.20
33 42 36 00-0068 EA	Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains	236.40
33 42 36 00-0069 EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	940.71
33 42 36 00-0070 EA	Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains	1,807.87
33 42 36 00-0071 EA	Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	216.79
33 42 36 00-0072	12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0058)</small>	
33 42 36 00-0073	12" Wide, Fiber Reinforced Polyester, Modular Trench Drains <small>(33 42 36 00-0072)</small>	

33	Utilities
33 40	Stormwater Utilities
33 42	Stormwater Conveyance



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain..... <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	280.54 56.37 59.08 338.19	21.03
33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0075)		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	118.71	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	131.47	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	131.47	
33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0079)		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	182.20	
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	236.40	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	940.71	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,807.87	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	216.79	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0086)		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Acid Resistant Coated Top Frame, Add</i> <i>For Galvanized Welded Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>	388.93 56.37 59.08 338.19	21.03
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0088)		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	281.30	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	294.06	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	294.06	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0092)		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	182.20	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	236.40	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	940.71	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,807.87	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	216.79	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0099)		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	518.29	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0101)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	260.86	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	449.15	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	105.40	
33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0107)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	316.24 84.55 84.55 520.30	28.69
<i>For Acid Resistant Coated Frame, Add</i> <i>For Galvanized Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame, Add</i>		
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0109)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	346.18	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	518.56	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	518.56	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0113)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	408.06	



Utilities	33	CS
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	1,853.82	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	3,588.14	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	433.58	
33 42 36 00-0118 Modular Trench Drain Grates <small>(33 42 36 00-0001)</small>		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP)	35.59	2.87
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	37.40	2.87
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	30.15	2.87
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS)	80.00	2.87
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	30.15	2.87
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	80.00	2.87
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0127 LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	108.84	2.87
33 42 36 00-0128 LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	92.47	2.87
33 42 36 00-0129 LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	97.02	2.87
33 42 36 00-0130 LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	84.99	2.87
33 42 36 00-0131 LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	91.50	2.87
33 42 36 00-0132 LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	92.58	2.87
33 42 36 00-0133 LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	92.58	2.87
33 42 36 00-0134 LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	91.50	2.87
33 42 36 00-0135 LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	80.66	2.87
33 42 36 00-0136 LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	80.66	2.87
33 42 36 00-0137 LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	85.64	2.87
33 42 36 00-0138 LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	85.64	2.87
33 42 36 00-0139 LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	111.01	2.87
33 42 36 00-0140 LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	111.01	2.87
33 42 36 00-0141 LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	202.06	2.87
33 42 36 00-0142 LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	202.06	2.87
33 42 36 00-0143 LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	559.76	2.87
33 42 36 00-0144 LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	76.32	2.87
33 42 36 00-0145 LF 6" Wide, Fiberglass, Modular Trench Drain Grate	163.04	2.87
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0147 LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	297.93	3.10
33 42 36 00-0148 LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	284.92	3.10
33 42 36 00-0149 LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	248.06	3.10
33 42 36 00-0150 LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	260.53	3.10
33 42 36 00-0151 LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	225.30	3.10
33 42 36 00-0152 LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	439.38	3.10
33 42 36 00-0153 LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	439.38	3.10
33 42 36 00-0154 LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	560.24	3.10
33 42 36 00-0155 LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	560.24	3.10
33 42 36 00-0156 LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	714.71	3.10
33 42 36 00-0157 LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	714.71	3.10
33 42 36 00-0158 LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	678.39	3.10
33 42 36 00-0159 LF 12" Wide, Fiberglass, Modular Trench Drain Grate	321.23	3.10
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates <small>(33 42 36 00-0118)</small>		
33 42 36 00-0161 LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	469.67	3.35
33 42 36 00-0162 LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	395.96	3.35
33 42 36 00-0163 LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	612.75	3.35
33 42 36 00-0164 LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	454.50	3.35
33 44 Storm Utility Water Drains <small>(33 40)</small>		
33 44 36 Oil and Stormwater Separators <small>(33 44)</small>		
33 44 36 00-0001 Oil/Water Separator <small>(33 44 36)</small>		
Note: Complete with internal sensors and detectors.		
33 44 36 00-0002 Coalescing Oil Water Separator <small>(33 44 36 00-0001)</small>		
Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003 Single Wall Steel Coalescing Oil Water Separator <small>(33 44 36 00-0002)</small>		
33 44 36 00-0004 EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	15,382.32	
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add		711.00
33 44 36 00-0005 EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	18,796.60	
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add		893.70

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0006 EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank. For Interior Polyurethane Coating, Add	22,490.00 1,340.10	
33 44 36 00-0007 Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)		
33 44 36 00-0008 EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank. For Interior Polyurethane Coating, Add	23,833.53 711.00	
33 44 36 00-0009 EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 1000. 4' diameter x 14' long tank. For Interior Polyurethane Coating, Add	27,397.72 893.70	
33 44 36 00-0010 EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 2000. 5'-4" diameter x 15' long tank. For Interior Polyurethane Coating, Add	33,431.82 1,340.10	
33 44 36 00-0011 EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank. For Interior Polyurethane Coating, Add	38,892.26 1,550.70	
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways Note: HTC-G 5000. 6' diameter x 28'-8" long tank. For Interior Polyurethane Coating, Add	51,631.51 2,057.80	
33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP1.	1,024.04	
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator Note: HTAP2.	1,384.27	
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	803.84	
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	603.74	
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator Note: Required for UL 2215 label.	228.54	
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	3,284.79	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	6,569.58	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	9,854.45	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	605.69	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	712.41	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,424.82	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	3,137.75	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	855.81	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,112.46	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	1,535.84	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	2,783.15	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	3,573.55	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	4,480.68	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator Note: Required when installed in paved areas.	5,644.61	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,112.24	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,355.69	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,129.42	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,060.54	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,287.33	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,527.45	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	90.05	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator.....	101.72	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,405.48	778.18
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,641.28	778.18
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,427.32	778.18
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,729.70	778.18
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,675.12	778.18
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,874.89	778.18
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,726.42	778.18
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,027.72	778.18
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,177.85	1,037.80
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,430.02	1,037.80
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,244.44	1,037.80



	Utilities	33
	Stormwater Utilities	33 40
	Storm Utility Water Drains	33 44

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,606.87	1,037.80
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,815.37	1,037.80
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	7,067.54	1,037.80
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,868.86	1,037.80
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	7,232.38	1,037.80
33 44 36 00-0059 Oil Skimmers, Add-Ons <small>(33 44 36 00-0041)</small>		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	291.23	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	339.26	
33 46 Stormwater Management <small>(33 40)</small>		
33 46 53 Stormwater Leaching Pits <small>(33 46)</small>		
33 46 53 00-0001 Drainage Wells <small>(33 46 53)</small>		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner.....	26.66	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner.....	32.33	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner.....	42.83	
33 50 Hydrocarbon Utilities <small>(33)</small>		
33 52 Hydrocarbon Transmission and Distribution <small>(33 50)</small>		
33 52 16 Gas Hydrocarbon Piping <small>(33 52)</small>		
33 52 16 13 Steel Natural Gas Piping <small>(33 52 16)</small>		
See CSI section 23 05 23 00-0000 for gas valves.		
33 52 16 13-0001 Gas Distribution Lines <small>(33 52 16 13)</small>		
Note: Excludes excavation and backfill.		
33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped <small>(33 52 16 13-0001)</small>		
33 52 16 13-0003 LF 1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	18.72	3.27
33 52 16 13-0004 LF 3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	21.44	3.59
33 52 16 13-0005 LF 1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	24.21	3.68
33 52 16 13-0006 LF 1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	24.82	3.79
33 52 16 13-0007 LF 1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	25.70	3.83
33 52 16 13-0008 LF 2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	27.26	4.11
33 52 16 13-0009 LF 2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel	35.97	4.44
33 52 16 13-0010 LF 3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	44.87	5.61
33 52 16 13-0011 LF 4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	60.02	6.77
33 52 16 13-0012 LF 5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	80.35	7.84
33 52 16 13-0013 LF 6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	100.87	9.58
33 52 16 13-0014 LF 8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	145.87	12.33
33 52 16 13-0015 Gas Line Taps <small>(33 52 16 13-0001)</small>		
Note: Includes material to tap into main and gas valve.		
33 52 16 13-0016 Polyethylene, 60 PSI <small>(33 52 16 13-0015)</small>		
33 52 16 13-0017 EA 2" Polyethylene Hot Tap, With Valve	2,131.15	
33 52 16 13-0018 EA 2-1/2" Polyethylene Hot Tap, With Valve	1,785.18	
33 52 16 13-0019 EA 3" Polyethylene Hot Tap, With Valve	1,891.98	
33 52 16 13-0020 EA 4" Polyethylene Hot Tap, With Valve	3,750.45	
33 52 16 13-0021 EA 6" Polyethylene Hot Tap, With Valve	5,783.08	
33 52 16 13-0022 Steel, Schedule 40 <small>(33 52 16 13-0015)</small>		
Note: For punch steel service tee.		
33 52 16 13-0023 EA 1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,014.27	
33 52 16 13-0024 EA 3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,048.25	
33 52 16 13-0025 EA 3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,101.55	
33 52 16 13-0026 EA 3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,152.59	
33 52 16 13-0027 EA 1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,186.42	
33 52 16 13-0028 EA 1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Value Steel Service Tee	2,372.01	
33 52 16 13-0029 EA 1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee	2,438.31	
33 52 16 13-0030 Protective Pipe And Fitting Wrap <small>(33 52 16 13-0001)</small>		
Note: Includes cleaning and priming pipe.		

33	Utilities
33 50	Hydrocarbon Utilities
33 52	Hydrocarbon Transmission and Distribution



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 52 16 13-0031	Corrosion Protection Pipe Wrap For Pipe (33 52 16 13-0030)		
	Note: Field applied.		
33 52 16 13-0032	LF 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.39	
33 52 16 13-0033	LF 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.62	
33 52 16 13-0034	LF 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	5.88	
33 52 16 13-0035	LF 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	6.64	
33 52 16 13-0036	LF 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	7.03	
33 52 16 13-0037	LF 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	8.15	
33 52 16 13-0038	LF 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	10.11	
33 52 16 13-0039	LF 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	12.78	
33 52 16 13-0040	LF 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	16.31	
33 52 16 13-0041	LF 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe	22.00	
33 52 16 13-0042	Corrosion Resistance Wrap And Coat - Fittings (33 52 16 13-0030)		
	Note: Field applied.		
33 52 16 13-0043	EA 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	25.08	
33 52 16 13-0044	EA 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	25.08	
33 52 16 13-0045	EA 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	30.71	
33 52 16 13-0046	EA 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	35.13	
33 52 16 13-0047	EA 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	35.13	
33 52 16 13-0048	EA 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	41.61	
33 52 16 13-0049	EA 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	55.27	
33 52 16 13-0050	EA 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	79.40	
33 52 16 13-0051	EA 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	80.83	
33 52 16 13-0052	EA 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings	93.66	
33 52 16 13-0053	Service Fittings (33 52 16 13-0001)		
33 52 16 13-0054	Brass Fittings (33 52 16 13-0053)		
33 52 16 13-0055	EA 1/2" X 2" Long Nipples, Threaded Both Ends, Brass	37.61	
33 52 16 13-0056	EA 3/4" X 2" Long Nipples, Threaded Both Ends, Brass	43.17	
33 52 16 13-0057	EA 1" X 2" Long Nipples, Threaded Both Ends, Brass	53.96	
33 52 16 13-0058	EA 1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass	65.79	
33 52 16 13-0059	EA 1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass	73.26	
33 52 16 13-0060	EA 2" X 2" Long Nipples, Threaded Both Ends, Brass	92.88	
33 52 16 13-0061	EA 1/2" 90 Degree Elbow, Brass	33.84	
33 52 16 13-0062	EA 3/4" 90 Degree Elbow, Brass	38.54	
33 52 16 13-0063	EA 1" 90 Degree Elbow, Brass	49.15	
33 52 16 13-0064	EA 1-1/4" 90 Degree Elbow, Brass	62.16	
33 52 16 13-0065	EA 1-1/2" 90 Degree Elbow, Brass	70.41	
33 52 16 13-0066	EA 2" 90 Degree Elbow, Brass	91.72	
33 52 16 13-0067	EA 1/2" Diameter Chrome Plated Nipple	31.28	
33 52 16 13-0068	EA 3/4" Diameter Chrome Plated Nipple	40.20	
33 52 16 13-0069	EA 1" Diameter Chrome Plated Nipple	52.37	
33 52 16 13-0070	EA 1-1/4" Diameter Chrome Plated Nipple	74.48	
33 52 16 13-0071	EA 1-1/2" Diameter Chrome Plated Nipple	90.09	
33 52 16 13-0072	EA 2" Diameter Chrome Plated Nipple	120.90	
33 52 16 13-0073	Anodless Gas Riser (33 52 16 13-0053)		
33 52 16 13-0074	EA 3/4" Anodless Gas Riser	97.08	
33 52 16 13-0075	EA 1" Anodless Gas Riser	119.37	
33 52 16 13-0076	EA 1-1/4" Anodless Gas Riser	138.54	
33 52 16 13-0077	EA 1-1/2" Anodless Gas Riser	170.30	
33 52 16 13-0078	EA 2" Anodless Gas Riser	194.08	
33 52 16 13-0079	Brass Service Adapter (33 52 16 13-0053)		
33 52 16 13-0080	EA 1/2" Brass Service Adapter	83.92	
33 52 16 13-0081	EA 3/4" Brass Service Adapter	92.34	
33 52 16 13-0082	EA 1" Brass Service Adapter	110.77	
33 52 16 13-0083	EA 1-1/4" Brass Service Adapter	134.21	
33 52 16 13-0084	EA 1-1/2" Brass Service Adapter	160.94	
33 52 16 13-0085	EA 2" Brass Service Adapter	193.30	
33 52 16 13-0086	EA 2-1/2" Brass Service Adapter	328.26	
33 52 16 13-0087	EA 3" Brass Service Adapter	400.96	
33 52 16 13-0088	EA 4" Brass Service Adapter	577.34	
33 52 16 23	Medium Density Polyethylene Piping for Natural Gas (33 52 16)		
33 52 16 23-0001	Medium Density Polyethylene (MDPE) Gas Distribution Piping (33 52 16 23)		
	Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.		
33 52 16 23-0002	LF 1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.29	2.01
	For Colors, Add	0.04	
33 52 16 23-0003	LF 3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.72	2.15
	For SDR 13.5, Deduct	-0.08	
	For Colors, Add	0.05	



Utilities	33	CS
Hydrocarbon Utilities	33 50	
Hydrocarbon Transmission and Distribution	33 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 23-0004 LF 1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For Colors, Add</i>	5.17 -0.10 0.07	2.30
33 52 16 23-0005 LF 1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For Colors, Add</i>	5.63 -0.12 0.08	2.44
33 52 16 23-0006 LF 1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For Colors, Add</i>	6.34 -0.17 0.11	2.94
33 52 16 23-0007 LF 2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	7.05 -0.23 -0.41 0.15	3.20
33 52 16 23-0008 LF 2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	8.55 -0.38 -0.69 0.24	3.74
33 52 16 23-0009 LF 3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	10.22 -0.51 -0.94 0.33	4.45
33 52 16 23-0010 LF 4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	15.06 -0.95 -1.74 0.61	4.50
33 52 16 23-0011 LF 5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	18.76 -1.31 -2.42 0.85	4.50
33 52 16 23-0012 LF 6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	22.56 -1.68 -3.09 1.08	4.50
33 52 16 23-0013 LF 8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For Colors, Add</i>	32.70 -2.80 -5.15 1.81	5.63

33 52 16 26 High Density Polyethylene Piping for Natural Gas (33 52 16)

33 52 16 26-0001 High Density Polyethylene (HDPE) Gas Distribution Piping (33 52 16 26)

Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 26-0002 LF 1/2" Diameter, SDR 9 High Density Polyethylene (HDPE) Gas Distribution Pipe	4.34	2.01
33 52 16 26-0003 LF 3/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i>	4.80 -0.09	2.15
33 52 16 26-0004 LF 1" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i>	5.24 -0.11	2.30
33 52 16 26-0005 LF 1-1/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i>	5.73 -0.13	2.44
33 52 16 26-0006 LF 1-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i>	6.47 -0.19	2.94
33 52 16 26-0007 LF 2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i>	7.23 -0.25 -0.46 -0.66	3.20
33 52 16 26-0008 LF 2-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i>	8.85 -0.41 -0.76 -1.10	3.74
33 52 16 26-0009 LF 3" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i> <i>For SDR 21, Deduct</i>	10.64 -0.56 -1.04 -1.51 -2.06	4.45
33 52 16 26-0010 LF 4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i> <i>For SDR 21, Deduct</i>	15.83 -1.04 -1.92 -2.78 -3.81	4.50
33 52 16 26-0011 LF 6" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i> <i>For SDR 21, Deduct</i>	23.92 -1.85 -3.40 -4.94 -6.76	4.50
33 52 16 26-0012 LF 8" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe <i>For SDR 13.5, Deduct</i> <i>For SDR 15.5, Deduct</i> <i>For SDR 17, Deduct</i> <i>For SDR 21, Deduct</i>	34.96 -3.08 -5.66 -8.22 -11.25	5.63

33 53 Hydrocarbon Utility Pressure Regulation (33 53)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33	Utilities
33 50	Hydrocarbon Utilities
33 53	Hydrocarbon Utility Pressure Regulation



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 53 16 00-0001	Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)		
33 53 16 00-0002	EA 3/4" Gas Pressure Regulator, Screwed End.....	202.25	22.54
33 53 16 00-0003	EA 1" Gas Pressure Regulator, Screwed End.....	207.37	22.54
33 53 16 00-0004	EA 1-1/4" Gas Pressure Regulator, Screwed End.....	219.64	26.76
33 53 16 00-0005	EA 1-1/2" Gas Pressure Regulator, Screwed End.....	647.96	30.98
33 53 16 00-0006	EA 2" Gas Pressure Regulator, Screwed End.....	712.63	47.98
33 53 16 00-0007	EA 3" Gas Pressure Regulator, Screwed End.....	1,961.61	107.63
33 53 16 00-0008	EA 4" Gas Pressure Regulator, Screwed End.....	2,711.02	142.64
33 56	Hydrocarbon Storage (33 50)		
33 56 13	Aboveground Hydrocarbon Storage Tanks (33 56)		
	See CSI section 23 13 23 00-0000 for aboveground storage tanks.		
33 56 33	Underground Hydrocarbon Storage (33 56)		
	See CSI section 23 13 13 00-0000 for underground storage tanks.		
33 59	Hydrocarbon Utility Metering (33 50)		
33 59 11	Diaphragm/Bellows Hydrocarbons Meters (33 59)		
33 59 11 00-0001	Diaphragm Meters (33 59 11)		
	Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.		
33 59 11 00-0002	EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	549.78 8.40 26.50	88.18
33 59 11 00-0003	EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	1,022.16 8.40 26.50	134.86
33 59 11 00-0004	EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	1,164.53 8.40 26.50	134.86
33 59 11 00-0005	EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	2,336.06 8.40 26.50	168.57
33 59 11 00-0006	EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	2,672.61 8.40 26.50	207.48
33 59 11 00-0007	EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	3,353.31 8.40 26.50	168.57
33 59 11 00-0008	EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	3,767.29 8.40 26.50	207.48
33 59 11 00-0009	EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	4,892.85 8.40 26.50	220.45
33 59 11 00-0010	EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	6,850.62 8.40 26.50	259.35
33 59 11 00-0011	EA 5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded..... <i>For Temperature And Pressure Compensation, Add</i> <i>For Pulsers, Add</i>	10,519.03 8.40 26.50	427.93
33 59 16	Hydrocarbons Turbine Meters (33 59)		
33 59 16 00-0001	Gas Turbine Meters With Direct-Digital Reading (33 59 16)		
	Note: Maximum working pressure 175 PSI, flanged end connections.		
33 59 16 00-0002	EA 4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	8,530.73	422.93
33 59 16 00-0003	EA 6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	8,675.25	491.15
33 59 16 00-0004	EA 8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	13,319.85	530.29
33 59 16 00-0005	EA 10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	25,725.82	645.57
33 59 16 00-0006	EA 12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	43,128.40	806.95
33 60	Hydronic and Steam Energy Utilities (33)		
33 61	Hydronic Energy Distribution (33 60)		
33 61 13	Buried Hydronic Energy Distribution (33 61)		
33 61 13 00-0001	Glass Lined Steel Piping (33 61 13)		
33 61 13 00-0002	Glass Lined Steel Pipe (33 61 13 00-0001)		
	Note: 150 PSIG		
33 61 13 00-0003	EA 4" X 1' Glass Lined Steel Pipe	1,273.24	
33 61 13 00-0004	EA 4" X 2' Glass Lined Steel Pipe	1,405.48	
33 61 13 00-0005	EA 4" X 3' Glass Lined Steel Pipe	1,405.48	
33 61 13 00-0006	EA 4" X 4' Glass Lined Steel Pipe	1,669.95	
33 61 13 00-0007	EA 4" X 5' Glass Lined Steel Pipe	2,372.46	
33 61 13 00-0008	EA 4" X 10' Glass Lined Steel Pipe	2,747.13	



Utilities	33	CS	
Hydronic and Steam Energy Utilities			33 60
Hydronic Energy Distribution			33 61

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0009 EA 6" X 1' Glass Lined Steel Pipe	1,066.62	
33 61 13 00-0010 EA 6" X 2' Glass Lined Steel Pipe	2,306.34	
33 61 13 00-0011 EA 6" X 3' Glass Lined Steel Pipe	2,306.34	
33 61 13 00-0012 EA 6" X 4' Glass Lined Steel Pipe	2,612.14	
33 61 13 00-0013 EA 6" X 5' Glass Lined Steel Pipe	4,212.76	
33 61 13 00-0014 EA 6" X 10' Glass Lined Steel Pipe	4,875.70	
33 61 13 00-0015 EA 8" X 1' Glass Lined Steel Pipe	2,630.92	
33 61 13 00-0016 EA 8" X 2' Glass Lined Steel Pipe	3,168.13	
33 61 13 00-0017 EA 8" X 3' Glass Lined Steel Pipe	3,168.13	
33 61 13 00-0018 EA 8" X 4' Glass Lined Steel Pipe	3,643.11	
33 61 13 00-0019 EA 8" X 5' Glass Lined Steel Pipe	4,933.55	
33 61 13 00-0020 EA 8" X 10' Glass Lined Steel Pipe	5,606.87	
33 61 13 00-0021 EA 12" X 1' Glass Lined Steel Pipe	7,135.18	
33 61 13 00-0022 EA 12" X 2' Glass Lined Steel Pipe	7,135.18	
33 61 13 00-0023 EA 12" X 3' Glass Lined Steel Pipe	7,394.14	
33 61 13 00-0024 EA 12" X 4' Glass Lined Steel Pipe	7,885.60	
33 61 13 00-0025 EA 12" X 5' Glass Lined Steel Pipe	8,848.16	
33 61 13 00-0026 EA 12" X 10' Glass Lined Steel Pipe	10,929.22	
33 61 13 00-0027 EA 16" X 10' Glass Lined Steel Pipe	14,887.27	
33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)		
Note: 150 PSIG		
33 61 13 00-0029 EA 4" 90 Degree Elbow, Glass Lined Steel Fittings	1,574.87	
33 61 13 00-0030 EA 6" 90 Degree Elbow, Glass Lined Steel Fittings	2,564.12	
33 61 13 00-0031 EA 8" 90 Degree Elbow, Glass Lined Steel Fittings	4,685.36	
33 61 13 00-0032 EA 10" 90 Degree Elbow, Glass Lined Steel Fittings	8,285.74	
33 61 13 00-0033 EA 12" 90 Degree Elbow, Glass Lined Steel Fittings	12,297.08	
33 61 13 00-0034 EA 14" 90 Degree Elbow, Glass Lined Steel Fittings	14,432.01	
33 61 13 00-0035 EA 16" 90 Degree Elbow, Glass Lined Steel Fittings	16,566.56	
33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings (33 61 13 00-0001)		
Note: 150 PSIG		
33 61 13 00-0037 EA 4" 45 Degree Elbow, Glass Lined Steel Fittings	1,544.56	
33 61 13 00-0038 EA 6" 45 Degree Elbow, Glass Lined Steel Fittings	2,564.12	
33 61 13 00-0039 EA 8" 45 Degree Elbow, Glass Lined Steel Fittings	4,894.74	
33 61 13 00-0040 EA 10" 45 Degree Elbow, Glass Lined Steel Fittings	13,674.39	
33 61 13 00-0041 EA 12" 45 Degree Elbow, Glass Lined Steel Fittings	12,297.08	
33 61 13 00-0042 EA 14" 45 Degree Elbow, Glass Lined Steel Fittings	14,432.01	
33 61 13 00-0043 EA 16" 45 Degree Elbow, Glass Lined Steel Fittings	16,566.56	
33 61 13 00-0044 Tee, Glass Lined Steel Fittings (33 61 13 00-0001)		
Note: 150 PSIG		
33 61 13 00-0045 EA 4" Tee, Glass Lined Steel Fittings.....	2,449.70	
33 61 13 00-0046 EA 6" Tee, Glass Lined Steel Fittings.....	4,181.70	
33 61 13 00-0047 EA 8" Tee, Glass Lined Steel Fittings.....	6,163.14	
33 61 13 00-0048 EA 10" Tee, Glass Lined Steel Fittings.....	10,614.25	
33 61 13 00-0049 EA 12" Tee, Glass Lined Steel Fittings.....	15,088.00	
33 61 13 00-0050 EA 14" Tee, Glass Lined Steel Fittings.....	17,779.23	
33 61 13 00-0051 EA 16" Tee, Glass Lined Steel Fittings.....	20,416.50	
33 61 13 00-0052 Prefabricated/Preinsulated Pipe (33 61 13)		
Note: Includes coupling per full length of pipe. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system.		
33 61 13 00-0053 Preinsulated Schedule 40 Black Steel Pipe (33 61 13 00-0052)		
Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0054 Standard Black Steel Carrier Pipe (33 61 13 00-0053)		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0055 LF 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	135.44	
For High Density Polyethylene (HDPE) Jacket, Add		2.17
For Schedule 80 Pipe, Add		21.73
33 61 13 00-0056 LF 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	148.40	
For High Density Polyethylene (HDPE) Jacket, Add		2.39
For Schedule 80 Pipe, Add		23.89
33 61 13 00-0057 LF 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	165.28	
For High Density Polyethylene (HDPE) Jacket, Add		2.69
For Schedule 80 Pipe, Add		26.91
33 61 13 00-0058 LF 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	176.86	
For High Density Polyethylene (HDPE) Jacket, Add		2.89
For Schedule 80 Pipe, Add		28.88
33 61 13 00-0059 LF 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	185.42	
For High Density Polyethylene (HDPE) Jacket, Add		3.02
For Schedule 80 Pipe, Add		30.19

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0060	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	206.69	
			For High Density Polyethylene (HDPE) Jacket, Add	3.28	
			For Schedule 80 Pipe, Add	32.82	
33 61	13 00-0061	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	229.20	
			For High Density Polyethylene (HDPE) Jacket, Add	3.54	
			For Schedule 80 Pipe, Add	35.44	
33 61	13 00-0062	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	289.37	
			For High Density Polyethylene (HDPE) Jacket, Add	4.46	
			For Schedule 80 Pipe, Add	44.63	
33 61	13 00-0063	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	366.60	
			For High Density Polyethylene (HDPE) Jacket, Add	5.71	
			For Schedule 80 Pipe, Add	57.10	
33 61	13 00-0064	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	426.46	
			For High Density Polyethylene (HDPE) Jacket, Add	6.63	
			For Schedule 80 Pipe, Add	66.29	
33 61	13 00-0065	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	597.20	
			For High Density Polyethylene (HDPE) Jacket, Add	9.65	
			For Schedule 80 Pipe, Add	96.48	
33 61	13 00-0066	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	773.26	
			For High Density Polyethylene (HDPE) Jacket, Add	12.73	
			For Schedule 80 Pipe, Add	127.33	
33 61	13 00-0067	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	962.29	
			For High Density Polyethylene (HDPE) Jacket, Add	15.88	
			For Schedule 80 Pipe, Add	158.84	
33 61	13 00-0068		Standard Black Steel Carrier Pipe <small>(33 61 13 00-0063)</small>		
			Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0069	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	146.30	
			For High Density Polyethylene (HDPE) Jacket, Add	2.39	
			For Schedule 80 Pipe, Add	23.90	
33 61	13 00-0070	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	160.34	
			For High Density Polyethylene (HDPE) Jacket, Add	2.63	
			For Schedule 80 Pipe, Add	26.28	
33 61	13 00-0071	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	178.74	
			For High Density Polyethylene (HDPE) Jacket, Add	2.96	
			For Schedule 80 Pipe, Add	29.60	
33 61	13 00-0072	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	191.30	
			For High Density Polyethylene (HDPE) Jacket, Add	3.18	
			For Schedule 80 Pipe, Add	31.77	
33 61	13 00-0073	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	200.52	
			For High Density Polyethylene (HDPE) Jacket, Add	3.32	
			For Schedule 80 Pipe, Add	33.21	
33 61	13 00-0074	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	223.10	
			For High Density Polyethylene (HDPE) Jacket, Add	3.61	
			For Schedule 80 Pipe, Add	36.10	
33 61	13 00-0075	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	246.93	
			For High Density Polyethylene (HDPE) Jacket, Add	3.90	
			For Schedule 80 Pipe, Add	38.99	
33 61	13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	311.69	
			For High Density Polyethylene (HDPE) Jacket, Add	4.91	
			For Schedule 80 Pipe, Add	49.10	
33 61	13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	395.15	
			For High Density Polyethylene (HDPE) Jacket, Add	6.28	
			For Schedule 80 Pipe, Add	62.81	
33 61	13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	459.60	
			For High Density Polyethylene (HDPE) Jacket, Add	7.29	
			For Schedule 80 Pipe, Add	72.92	
33 61	13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	645.44	
			For High Density Polyethylene (HDPE) Jacket, Add	10.61	
			For Schedule 80 Pipe, Add	106.13	
33 61	13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	836.93	
			For High Density Polyethylene (HDPE) Jacket, Add	14.01	
			For Schedule 80 Pipe, Add	140.07	



	Utilities	33
	Hydronic and Steam Energy Utilities	33 60
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,041.71 17.47 174.72	
33 61 13 00-0082 Standard Black Steel Carrier Pipe <small>(33 61 13 00-0053)</small>					
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61	13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	151.73 2.50 24.98	
33 61	13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	166.31 2.75 27.47	
33 61	13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	185.47 3.09 30.95	
33 61	13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	198.52 3.32 33.21	
33 61	13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	208.06 3.47 34.72	
33 61	13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	231.30 3.77 37.74	
33 61	13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	255.79 4.08 40.76	
33 61	13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	322.84 5.13 51.33	
33 61	13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	409.43 6.57 65.67	
33 61	13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	476.18 7.62 76.24	
33 61	13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	669.56 11.10 110.96	
33 61	13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	868.76 14.64 146.43	
33 61	13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,081.42 18.27 182.66	
33 61 13 00-0096 Standard Black Steel Carrier Pipe <small>(33 61 13 00-0053)</small>					
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61	13 00-0097	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	159.88 2.66 26.61	
33 61	13 00-0098	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	175.27 2.93 29.27	
33 61	13 00-0099	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	195.56 3.30 32.97	
33 61	13 00-0100	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	209.35 3.54 35.38	
33 61	13 00-0101	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	219.39 3.70 36.99	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0102	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	243.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.02	
		<i>For Schedule 80 Pipe, Add</i>	40.20	
33 61 13 00-0103	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	269.08	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.34	
		<i>For Schedule 80 Pipe, Add</i>	43.42	
33 61 13 00-0104	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	339.58	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.47	
		<i>For Schedule 80 Pipe, Add</i>	54.67	
33 61 13 00-0105	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	430.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.00	
		<i>For Schedule 80 Pipe, Add</i>	69.95	
33 61 13 00-0106	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	501.04	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.12	
		<i>For Schedule 80 Pipe, Add</i>	81.21	
33 61 13 00-0107	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	705.74	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.82	
		<i>For Schedule 80 Pipe, Add</i>	118.19	
33 61 13 00-0108	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	916.51	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.60	
		<i>For Schedule 80 Pipe, Add</i>	155.98	
33 61 13 00-0109	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,140.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.46	
		<i>For Schedule 80 Pipe, Add</i>	194.58	
33 61 13 00-0110		Preinsulated Black Steel Fittings (33 61 13 00-0052) Note: No excavation or backfill.		
33 61 13 00-0111		Elbows (33 61 13 00-0110)		
33 61 13 00-0112		Elbows (33 61 13 00-0111) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0113	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	794.43	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.24	
33 61 13 00-0114	EA	1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	820.25	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.55	
33 61 13 00-0115	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	939.64	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.42	
33 61 13 00-0116	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,047.23	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.82	
33 61 13 00-0117	EA	2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,185.37	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.52	
33 61 13 00-0118	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,363.35	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.22	
33 61 13 00-0119	EA	3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,581.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.03	
33 61 13 00-0120	EA	4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,845.08	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.53	
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,238.99	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.54	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,486.13	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.82	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,517.15	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	51.79	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,598.25	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	66.19	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,927.48	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	87.61	
33 61 13 00-0126		Elbows (33 61 13 00-0111) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0127 EA 3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	844.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.23	
33 61 13 00-0128 EA 1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	871.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.57	
33 61 13 00-0129 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	997.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.58	
33 61 13 00-0130 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,110.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.08	
33 61 13 00-0131 EA 2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,251.07	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.84	
33 61 13 00-0132 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,431.68	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.59	
33 61 13 00-0133 EA 3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,659.96	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.60	
33 61 13 00-0134 EA 4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,937.07	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.37	
33 61 13 00-0135 EA 5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,357.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.90	
33 61 13 00-0136 EA 6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,620.46	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.51	
33 61 13 00-0137 EA 8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,711.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	55.67	
33 61 13 00-0138 EA 10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,846.48	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	71.16	
33 61 13 00-0139 EA 12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,256.01	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	94.18	
33 61 13 00-0140 Elbows <small>(33 61 13 00-0111)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0141 EA 3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	893.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.22	
33 61 13 00-0142 EA 1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	921.87	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.58	
33 61 13 00-0143 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,055.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.73	
33 61 13 00-0144 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,173.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.34	
33 61 13 00-0145 EA 2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,316.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.15	
33 61 13 00-0146 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,500.02	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.96	
33 61 13 00-0147 EA 3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,738.81	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.18	
33 61 13 00-0148 EA 4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,029.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.21	
33 61 13 00-0149 EA 5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,475.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.27	
33 61 13 00-0150 EA 6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,754.80	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	41.20	
33 61 13 00-0151 EA 8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,905.55	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.55	
33 61 13 00-0152 EA 10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,094.70	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	76.12	
33 61 13 00-0153 EA 12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	6,584.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	100.75	

33 Utilities

33 60 Hydronic and Steam Energy Utilities

33 61 Hydronic Energy Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0154			Elbows <small>(33 61 13 00-0111)</small>		
			Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0155	EA		3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	943.37	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.22	
33 61 13 00-0156	EA		1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	972.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.60	
33 61 13 00-0157	EA		1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,113.11	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.89	
33 61 13 00-0158	EA		1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,236.47	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.61	
33 61 13 00-0159	EA		2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,382.48	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.46	
33 61 13 00-0160	EA		2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,568.35	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.32	
33 61 13 00-0161	EA		3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,817.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.76	
33 61 13 00-0162	EA		4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,121.05	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.05	
33 61 13 00-0163	EA		5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,593.81	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.64	
33 61 13 00-0164	EA		6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,889.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	43.88	
33 61 13 00-0165	EA		8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,099.75	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	63.44	
33 61 13 00-0166	EA		10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,342.93	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	81.09	
33 61 13 00-0167	EA		12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,913.07	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	107.32	
33 61 13 00-0168			Tees <small>(33 61 13 00-0110)</small>		
33 61 13 00-0169			Tees <small>(33 61 13 00-0168)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0170	EA		3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,181.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.66	
33 61 13 00-0171	EA		1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,220.01	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.12	
33 61 13 00-0172	EA		1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,397.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.90	
33 61 13 00-0173	EA		1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,557.97	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.98	
33 61 13 00-0174	EA		2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,764.33	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.02	
33 61 13 00-0175	EA		2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,030.55	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.06	
33 61 13 00-0176	EA		3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,355.90	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.22	
33 61 13 00-0177	EA		4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,749.21	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.43	
33 61 13 00-0178	EA		5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,338.33	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	46.84	
33 61 13 00-0179	EA		6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,703.28	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	53.20	
33 61 13 00-0180	EA		8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,235.18	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	76.90	
33 61 13 00-0181	EA		10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,850.01	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	98.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8,825.50 130.10	
33 61	13 00-0183			Tees <small>(33 61 13 00-0168)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,255.37 21.13	
	33 61	13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,295.46 21.63	
	33 61	13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,483.54 24.61	
	33 61	13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,651.64 26.85	
	33 61	13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,861.90 27.97	
	33 61	13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,132.02 29.09	
	33 61	13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,472.99 33.57	
	33 61	13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,885.81 39.16	
	33 61	13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,513.96 50.35	
	33 61	13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,902.77 57.19	
	33 61	13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,523.56 82.67	
	33 61	13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7,218.62 105.67	
	33 61	13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9,313.37 139.86	
33 61	13 00-0197			Tees <small>(33 61 13 00-0168)</small> Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,329.09 22.61	
	33 61	13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,370.92 23.14	
	33 61	13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,569.41 26.33	
	33 61	13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,745.31 28.73	
	33 61	13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,959.47 29.92	
	33 61	13 00-0203	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,233.50 31.12	
	33 61	13 00-0204	EA	3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,590.08 35.91	
	33 61	13 00-0205	EA	4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,022.42 41.89	
	33 61	13 00-0206	EA	5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,689.59 53.86	
	33 61	13 00-0207	EA	6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,102.25 61.18	
	33 61	13 00-0208	EA	8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,811.95 88.44	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0209	EA	10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,587.23	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	113.04	
33 61	13 00-0210	EA	12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,801.25	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	149.61	
33 61	13 00-0211		Tees <small>(33 61 13 00-0168)</small>		
			Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0212	EA	3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,402.82	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.08	
33 61	13 00-0213	EA	1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,446.38	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.65	
33 61	13 00-0214	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,655.27	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.05	
33 61	13 00-0215	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,838.98	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.60	
33 61	13 00-0216	EA	2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,057.05	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.87	
33 61	13 00-0217	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,334.98	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.15	
33 61	13 00-0218	EA	3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,707.17	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	38.25	
33 61	13 00-0219	EA	4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,159.02	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	44.62	
33 61	13 00-0220	EA	5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,865.23	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	57.37	
33 61	13 00-0221	EA	6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,301.74	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	65.17	
33 61	13 00-0222	EA	8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,100.34	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	94.21	
33 61	13 00-0223	EA	10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,955.85	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	120.41	
33 61	13 00-0224	EA	12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	10,289.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	159.37	
33 61	13 00-0225		Reducers <small>(33 61 13 00-0110)</small>		
33 61	13 00-0226		Reducers <small>(33 61 13 00-0225)</small>		
			Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0227	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	668.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.99	
33 61	13 00-0228	EA	1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	690.77	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.25	
33 61	13 00-0229	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	791.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.80	
33 61	13 00-0230	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	883.54	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.96	
33 61	13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,005.36	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.54	
33 61	13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,173.40	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.12	
33 61	13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,353.68	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.45	
33 61	13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,574.43	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.36	
33 61	13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,904.91	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.18	
33 61	13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,112.36	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0237 EA 8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,984.38	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.98	
33 61 13 00-0238 EA 10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,907.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	54.94	
33 61 13 00-0239 EA 12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	5,025.73	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	72.72	
33 61 13 00-0240 Reducers <small>(33 61 13 00-0225)</small>		
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0241 EA 3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	709.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.81	
33 61 13 00-0242 EA 1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	732.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.09	
33 61 13 00-0243 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	839.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.76	
33 61 13 00-0244 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	935.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.01	
33 61 13 00-0245 EA 2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,059.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.63	
33 61 13 00-0246 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,230.11	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.26	
33 61 13 00-0247 EA 3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,419.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.76	
33 61 13 00-0248 EA 4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,650.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.89	
33 61 13 00-0249 EA 5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,003.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.14	
33 61 13 00-0250 EA 6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,223.86	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.96	
33 61 13 00-0251 EA 8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,145.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	46.21	
33 61 13 00-0252 EA 10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,113.32	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.06	
33 61 13 00-0253 EA 12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,298.42	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	78.17	
33 61 13 00-0254 Reducers <small>(33 61 13 00-0225)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255 EA 3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	751.10	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.64	
33 61 13 00-0256 EA 1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	775.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.93	
33 61 13 00-0257 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	887.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.72	
33 61 13 00-0258 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	988.25	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.06	
33 61 13 00-0259 EA 2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,114.43	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.72	
33 61 13 00-0260 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,286.83	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.39	
33 61 13 00-0261 EA 3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,484.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.07	
33 61 13 00-0262 EA 4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,727.13	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.41	
33 61 13 00-0263 EA 5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,101.24	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.10	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0264 EA 6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,335.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.19	
33 61 13 00-0265 EA 8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,306.75	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.43	
33 61 13 00-0266 EA 10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,319.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	63.18	
33 61 13 00-0267 EA 12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,571.10	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	83.62	
33 61 13 00-0268 Reducers <small>(33 61 13 00-0225)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0269 EA 3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	792.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.46	
33 61 13 00-0270 EA 1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	817.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.78	
33 61 13 00-0271 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	935.71	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.68	
33 61 13 00-0272 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,040.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.10	
33 61 13 00-0273 EA 2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,168.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.82	
33 61 13 00-0274 EA 2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,343.55	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.53	
33 61 13 00-0275 EA 3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,550.01	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.38	
33 61 13 00-0276 EA 4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,803.48	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.94	
33 61 13 00-0277 EA 5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,199.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.07	
33 61 13 00-0278 EA 6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,446.84	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.42	
33 61 13 00-0279 EA 8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,467.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.65	
33 61 13 00-0280 EA 10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,525.37	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	67.30	
33 61 13 00-0281 EA 12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,843.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	89.08	
33 61 13 00-0282 Preinsulated Type K Copper Pipe <small>(33 61 13 00-0052)</small>		
Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0283 Type K Copper Carrier Pipe <small>(33 61 13 00-0282)</small>		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0284 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	46.84	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.41	
33 61 13 00-0285 LF 1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	50.99	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.45	
33 61 13 00-0286 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	55.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.51	
33 61 13 00-0287 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	59.15	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.54	
33 61 13 00-0288 LF 2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	62.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.57	
33 61 13 00-0289 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	72.84	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0290 LF 3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	84.55	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.67	
33 61 13 00-0291 LF 4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	107.21	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0292 LF 5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	133.60	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.07	
33 61 13 00-0293 LF 6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	155.95	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.25	
33 61 13 00-0294 LF 8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	203.83	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.82	
33 61 13 00-0295 LF 10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	254.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.40	
33 61 13 00-0296 LF 12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	315.03	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.99	
33 61 13 00-0297 Type K Copper Carrier Pipe <small>(33 61 13 00-0292)</small>		
<i>Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0298 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	48.88	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.45	
33 61 13 00-0299 LF 1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	53.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.49	
33 61 13 00-0300 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	58.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.56	
33 61 13 00-0301 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	61.87	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.60	
33 61 13 00-0302 LF 2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.19	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.63	
33 61 13 00-0303 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	75.92	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.68	
33 61 13 00-0304 LF 3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	87.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.73	
33 61 13 00-0305 LF 4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	111.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.92	
33 61 13 00-0306 LF 5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	138.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.18	
33 61 13 00-0307 LF 6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	162.18	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.37	
33 61 13 00-0308 LF 8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	212.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.00	
33 61 13 00-0309 LF 10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	266.32	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.64	
33 61 13 00-0310 LF 12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	329.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.29	
33 61 13 00-0311 Type K Copper Carrier Pipe <small>(33 61 13 00-0292)</small>		
<i>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0312 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	49.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.47	
33 61 13 00-0313 LF 1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	54.36	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.52	
33 61 13 00-0314 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	59.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.58	
33 61 13 00-0315 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	63.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.63	
33 61 13 00-0316 LF 2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	66.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.65	
33 61 13 00-0317 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	77.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.71	
33 61 13 00-0318 LF 3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	89.56	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.77	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0319 LF 4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	113.51	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.97	
33 61 13 00-0320 LF 5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	141.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.24	
33 61 13 00-0321 LF 6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	165.30	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.43	
33 61 13 00-0322 LF 8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	217.45	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.09	
33 61 13 00-0323 LF 10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	272.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.76	
33 61 13 00-0324 LF 12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	337.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.44	
33 61 13 00-0325 Type K Copper Carrier Pipe <small>(33 61 13 00-0262)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0326 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	51.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.50	
33 61 13 00-0327 LF 1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	56.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.55	
33 61 13 00-0328 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	61.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0329 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.67	
33 61 13 00-0330 LF 2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	68.74	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.70	
33 61 13 00-0331 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	79.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.76	
33 61 13 00-0332 LF 3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	92.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.82	
33 61 13 00-0333 LF 4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	116.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.03	
33 61 13 00-0334 LF 5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	145.69	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.32	
33 61 13 00-0335 LF 6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	169.98	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.53	
33 61 13 00-0336 LF 8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	224.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.22	
33 61 13 00-0337 LF 10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	281.30	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.94	
33 61 13 00-0338 LF 12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	348.65	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.66	
33 61 13 00-0339 Preinsulated Copper Fittings <small>(33 61 13 00-0052)</small>		
33 61 13 00-0340 Elbows <small>(33 61 13 00-0339)</small>		
33 61 13 00-0341 Elbows <small>(33 61 13 00-0340)</small>		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0342 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	348.18	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.66	
33 61 13 00-0343 EA 1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	362.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.77	
33 61 13 00-0344 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	418.03	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.43	
33 61 13 00-0345 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	475.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.92	
33 61 13 00-0346 EA 2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	577.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	713.88	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.41	
33 61	13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	830.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.40	
33 61	13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	969.51	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.63	
33 61	13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,130.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.10	
33 61	13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,234.74	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.61	
33 61	13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,718.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.23	
33 61	13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,285.24	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.30	
33 61	13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,886.96	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.83	
33 61	13 00-0355	Elbows <small>(33 61 13 00-0340)</small>			
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61	13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	365.65	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.01	
33 61	13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	380.45	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.13	
33 61	13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	438.38	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.83	
33 61	13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	497.49	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.36	
33 61	13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	600.40	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.63	
33 61	13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	737.93	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.89	
33 61	13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	858.44	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.96	
33 61	13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,001.88	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.28	
33 61	13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,172.28	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.93	
33 61	13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,282.02	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.55	
33 61	13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,786.47	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.59	
33 61	13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,372.60	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.04	
33 61	13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	3,002.59	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.15	
33 61	13 00-0369	Elbows <small>(33 61 13 00-0340)</small>			
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.					
33 61	13 00-0370	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	383.12	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.36	
33 61	13 00-0371	EA	1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	398.34	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.48	
33 61	13 00-0372	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	458.73	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.24	
33 61	13 00-0373	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	519.69	
			<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.81	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0374 EA 2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	623.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.09	
33 61 13 00-0375 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	761.98	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.38	
33 61 13 00-0376 EA 3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	886.19	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.51	
33 61 13 00-0377 EA 4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,034.26	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.93	
33 61 13 00-0378 EA 5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,213.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.77	
33 61 13 00-0379 EA 6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,329.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.50	
33 61 13 00-0380 EA 8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,854.65	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.96	
33 61 13 00-0381 EA 10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,459.51	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.79	
33 61 13 00-0382 EA 12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,118.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.46	
33 61 13 00-0383 Elbows <small>(33 61 13 00-0340)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0384 EA 3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	400.60	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.71	
33 61 13 00-0385 EA 1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	416.22	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.84	
33 61 13 00-0386 EA 1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	479.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.65	
33 61 13 00-0387 EA 1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	541.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.25	
33 61 13 00-0388 EA 2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	646.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.55	
33 61 13 00-0389 EA 2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	786.03	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.86	
33 61 13 00-0390 EA 3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	913.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.07	
33 61 13 00-0391 EA 4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,066.63	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.58	
33 61 13 00-0392 EA 5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,255.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.60	
33 61 13 00-0393 EA 6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,376.87	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.44	
33 61 13 00-0394 EA 8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,923.00	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.33	
33 61 13 00-0395 EA 10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,546.88	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.54	
33 61 13 00-0396 EA 12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,234.17	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.77	
33 61 13 00-0397 Tees <small>(33 61 13 00-0339)</small>		
33 61 13 00-0398 Tees <small>(33 61 13 00-0397)</small>		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0399 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	518.73	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.92	
33 61 13 00-0400 EA 1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	540.10	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.08	
33 61 13 00-0401 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	622.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	708.28 8.79	
	33 61	13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	860.77 9.16	
	33 61	13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,065.35 9.52	
	33 61	13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,240.52 10.99	
	33 61	13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,447.85 12.82	
	33 61	13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,690.76 16.48	
	33 61	13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,843.39 18.72	
	33 61	13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,561.83 27.07	
	33 61	13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,412.27 34.60	
	33 61	13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,307.30 45.79	
33 61 13 00-0412 Tees <small>(33 61 13 00-0397)</small>						
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.						
	33 61	13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	544.67 7.44	
	33 61	13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	566.65 7.61	
	33 61	13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	653.00 8.66	
	33 61	13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	741.25 9.45	
	33 61	13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	895.12 9.84	
	33 61	13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,101.06 10.24	
	33 61	13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,281.73 11.81	
	33 61	13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,495.93 13.78	
	33 61	13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,752.58 17.72	
	33 61	13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,913.60 20.13	
	33 61	13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,663.33 29.10	
	33 61	13 00-0424	EA	10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,542.01 37.19	
	33 61	13 00-0425	EA	12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,479.01 49.22	
33 61 13 00-0426 Tees <small>(33 61 13 00-0397)</small>						
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.						
	33 61	13 00-0427	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	570.62 7.96	
	33 61	13 00-0428	EA	1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	593.21 8.14	

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0429 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	683.22	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.27	
33 61 13 00-0430 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	774.21	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.11	
33 61 13 00-0431 EA 2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	929.46	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.53	
33 61 13 00-0432 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,136.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.95	
33 61 13 00-0433 EA 3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,322.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.64	
33 61 13 00-0434 EA 4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,544.00	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.74	
33 61 13 00-0435 EA 5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,814.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.96	
33 61 13 00-0436 EA 6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,984.25	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.53	
33 61 13 00-0437 EA 8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,763.66	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.13	
33 61 13 00-0438 EA 10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,669.16	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.79	
33 61 13 00-0439 EA 12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,653.70	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.66	
33 61 13 00-0440 Tees <small>(33 61 13 00-0397)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0441 EA 3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	596.57	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.48	
33 61 13 00-0442 EA 1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	619.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.68	
33 61 13 00-0443 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	713.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.87	
33 61 13 00-0444 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	807.18	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.77	
33 61 13 00-0445 EA 2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	963.80	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.22	
33 61 13 00-0446 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,172.49	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.67	
33 61 13 00-0447 EA 3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,364.15	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.46	
33 61 13 00-0448 EA 4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,592.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.71	
33 61 13 00-0449 EA 5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,876.20	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.19	
33 61 13 00-0450 EA 6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,054.46	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.94	
33 61 13 00-0451 EA 8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,865.16	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.16	
33 61 13 00-0452 EA 10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,798.90	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.38	
33 61 13 00-0453 EA 12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,825.40	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	56.09	
33 61 13 00-0454 Reducers <small>(33 61 13 00-0339)</small>		
33 61 13 00-0455 Reducers <small>(33 61 13 00-0454)</small>		
Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0456 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	297.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.87	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0457	EA		1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	309.59	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.96	
33 61	13 00-0458	EA		1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	357.24	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.50	
33 61	13 00-0459	EA		1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	406.96	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.91	
33 61	13 00-0460	EA		2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	497.84	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.12	
33 61	13 00-0461	EA		2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	628.89	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.32	
33 61	13 00-0462	EA		3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	725.43	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.14	
33 61	13 00-0463	EA		4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	842.10	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.17	
33 61	13 00-0464	EA		5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	978.96	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.21	
33 61	13 00-0465	EA		6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,067.35	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.46	
33 61	13 00-0466	EA		8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,482.62	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.13	
33 61	13 00-0467	EA		10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,975.76	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.34	
33 61	13 00-0468	EA		12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,488.29	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.59	
33 61 13 00-0469 Reducers <small>(33 61 13 00-0454)</small>						
Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.						
33 61	13 00-0470	EA		3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	311.59	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.16	
33 61	13 00-0471	EA		1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	324.44	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.26	
33 61	13 00-0472	EA		1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	374.13	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.84	
33 61	13 00-0473	EA		1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	425.39	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.28	
33 61	13 00-0474	EA		2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	517.04	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.50	
33 61	13 00-0475	EA		2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	648.85	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.72	
33 61	13 00-0476	EA		3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	748.46	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.60	
33 61	13 00-0477	EA		4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	868.97	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.70	
33 61	13 00-0478	EA		5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,013.51	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.90	
33 61	13 00-0479	EA		6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,106.59	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.25	
33 61	13 00-0480	EA		8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	1,539.35	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	16.26	
33 61	13 00-0481	EA		10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,048.27	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.79	
33 61	13 00-0482	EA		12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket	2,584.26	
				<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.51	
33 61 13 00-0483 Reducers <small>(33 61 13 00-0454)</small>						
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.						

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0484 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	326.09	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.45	
33 61 13 00-0485 EA 1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	339.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.55	
33 61 13 00-0486 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	391.02	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.18	
33 61 13 00-0487 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	443.82	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.65	
33 61 13 00-0488 EA 2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	536.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.89	
33 61 13 00-0489 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	668.81	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.12	
33 61 13 00-0490 EA 3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	771.49	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.06	
33 61 13 00-0491 EA 4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	895.84	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.24	
33 61 13 00-0492 EA 5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,048.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.60	
33 61 13 00-0493 EA 6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,146.07	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.03	
33 61 13 00-0494 EA 8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,595.67	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.40	
33 61 13 00-0495 EA 10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,120.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.24	
33 61 13 00-0496 EA 12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,680.50	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.43	
33 61 13 00-0497 Reducers <small>(33 61 13 00-0454)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0498 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	340.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.74	
33 61 13 00-0499 EA 1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	354.12	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.85	
33 61 13 00-0500 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	407.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.52	
33 61 13 00-0501 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	462.24	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.02	
33 61 13 00-0502 EA 2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	555.42	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.27	
33 61 13 00-0503 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	688.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.52	
33 61 13 00-0504 EA 3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	794.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.52	
33 61 13 00-0505 EA 4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	922.72	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.78	
33 61 13 00-0506 EA 5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,082.61	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.29	
33 61 13 00-0507 EA 6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,185.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.82	
33 61 13 00-0508 EA 8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,652.40	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.53	
33 61 13 00-0509 EA 10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,192.92	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.69	
33 61 13 00-0510 EA 12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,776.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.35	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0511		Preinsulated Ductile Iron Carrier Pipe <small>(33 61 13 00-0052)</small> Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
33 61 13 00-0512		Ductile Iron Carrier Pipe <small>(33 61 13 00-0511)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	152.54	
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	222.79	
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	297.67	
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	375.99	
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	466.42	
33 61 13 00-0518		Ductile Iron Carrier Pipe <small>(33 61 13 00-0511)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	161.35	
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	235.88	
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	316.72	
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	401.13	
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	497.78	
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	543.60	
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	610.20	
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	684.16	
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	751.15	
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	884.60	
33 61 13 00-0529		Preinsulated Ductile Iron Fittings <small>(33 61 13 00-0052)</small>		
33 61 13 00-0530		Elbows <small>(33 61 13 00-0529)</small>		
33 61 13 00-0531		Elbows <small>(33 61 13 00-0530)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,398.72	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,834.30	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,574.84	
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,393.80	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,333.34	
33 61 13 00-0537		Elbows <small>(33 61 13 00-0530)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,507.58	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,993.27	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,804.65	
33 61 13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,687.54	
33 61 13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,722.12	
33 61 13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,735.78	
33 61 13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	6,763.66	
33 61 13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	8,436.89	
33 61 13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	10,715.39	
33 61 13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	13,946.70	
33 61 13 00-0548		Tees <small>(33 61 13 00-0529)</small>		

33 Utilities**33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0549		Tees <small>(33 61 13 00-0548)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,086.37	
33 61 13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,735.32	
33 61 13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,835.84	
33 61 13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,061.39	
33 61 13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	6,458.21	
33 61 13 00-0555		Tees <small>(33 61 13 00-0548)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,248.02	
33 61 13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,971.39	
33 61 13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,177.12	
33 61 13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,497.60	
33 61 13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	7,035.56	
33 61 13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	8,365.46	
33 61 13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	9,867.65	
33 61 13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	12,310.68	
33 61 13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	15,644.42	
33 61 13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	20,359.16	
33 61 13 00-0566		Reducers <small>(33 61 13 00-0529)</small>		
33 61 13 00-0567		Reducers <small>(33 61 13 00-0566)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,203.95	
33 61 13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,571.34	
33 61 13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,202.27	
33 61 13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,907.59	
33 61 13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,702.60	
33 61 13 00-0573		Reducers <small>(33 61 13 00-0566)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,294.31	
33 61 13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,703.29	
33 61 13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,393.01	
33 61 13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,151.40	
33 61 13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,025.29	
33 61 13 00-0579	EA	14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,780.82	
33 61 13 00-0580	EA	16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,631.47	
33 61 13 00-0581	EA	18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	6,977.05	
33 61 13 00-0582	EA	20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	8,928.32	
33 61 13 00-0583	EA	24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	11,651.04	
33 61 13 00-0584		Tempered Water Piping Pre-Insulated <small>(33 61 13 00-0052)</small>		
33 61 13 00-0585		Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0586	LF	4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation.....	103.54	25.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0587 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	132.63	30.99
33 61 13 00-0588 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	178.53	32.35
33 61 13 00-0589 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	242.31	40.44
33 61 13 00-0590 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation	309.36	49.88
33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0592 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	65.25	30.99
33 61 13 00-0593 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	71.44	30.99
33 61 13 00-0594 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	77.20	30.99
33 61 13 00-0595 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	92.83	36.63
33 61 13 00-0596 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation	112.72	46.50
33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation <small>(33 61 13 00-0584)</small>		
33 61 13 00-0598 LF 4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	65.25	30.99
33 61 13 00-0599 LF 6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	71.44	30.99
33 61 13 00-0600 LF 8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	77.20	30.99
33 61 13 00-0601 LF 10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	92.83	36.63
33 61 13 00-0602 LF 12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation	112.72	46.50
33 70 Electrical Utilities <small>(33)</small>		
33 71 Electrical Utility Transmission and Distribution <small>(33 70)</small>		
33 71 19 Electrical Underground Ducts, Ductbanks and Manholes <small>(33 71)</small>		
<small>Note: Excludes excavation and backfill.</small>		
33 71 19 13 Electrical Manholes and Handholes <small>(33 71 19)</small>		
33 71 19 13-0001 Electrical Handholes And Pull Boxes <small>(33 71 19 13)</small>		
33 71 19 13-0002 Electrical Pull Boxes <small>(33 71 19 13-0001)</small>		
<small>See CSI section 33 05 63 00-0427 for handholes.</small>		
33 71 19 13-0003 EA 24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,607.49	
33 71 19 13-0004 EA 24" x 36" x 36", Electric Pull Boxes, Precast Concrete	1,898.01	
33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,173.34	
33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete	3,248.54	
33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete	3,435.65	
33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,680.09	
33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete	4,223.67	
33 71 19 13-0010 Electrical Pull Boxes (CALTRANS) <small>(33 71 19 13-0001)</small>		
33 71 19 13-0011 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box	118.16	
33 71 19 13-0012 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	46.09	
33 71 19 13-0013 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	71.33	
33 71 19 13-0014 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	148.55	
33 71 19 13-0015 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	228.61	
<small>For Galvanized Steel Cover, Add</small>		38.76
33 71 19 13-0016 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	59.02	
33 71 19 13-0017 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	59.02	
33 71 19 13-0018 EA Body, CALTRANS 5 Precast Concrete Pull Box	169.43	
33 71 19 13-0019 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	61.25	
33 71 19 13-0020 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	86.49	
33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	302.50	
<small>For Galvanized Steel Cover, Add</small>		71.06
33 71 19 13-0022 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box	82.70	
33 71 19 13-0023 EA Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	77.49	
33 71 19 13-0024 EA Body, CALTRANS 6 Precast Concrete Pull Box	184.59	
33 71 19 13-0025 EA Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	81.62	
33 71 19 13-0026 EA Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	106.86	
33 71 19 13-0027 EA Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	414.30	
<small>For Galvanized Steel Cover, Add</small>		99.48
33 71 19 13-0028 EA 12" Extension, CALTRANS 6 Precast Concrete Pull Box	97.86	
33 71 19 13-0029 EA Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	92.18	
33 71 19 13-0030 EA 6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	126.28	
33 71 19 13-0031 EA Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	256.96	
33 71 19 13-0032 EA Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	363.14	
33 71 19 13-0033 EA 12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	116.81	
33 71 19 13-0034 EA Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	107.33	
33 71 19 13-0035 EA Body, CALTRANS 5-T Precast Concrete Pull Box	336.18	
33 71 19 13-0036 EA Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	524.20	
33 71 19 13-0037 EA 12" Extension, CALTRANS 5-T Precast Concrete Pull Box	139.55	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0038	EA		Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	135.76	
33 71 19 13-0039	EA		Body, CALTRANS 6-T Precast Concrete Pull Box.....	474.50	
33 71 19 13-0040	EA		Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	732.64	
33 71 19 13-0041	EA		12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	234.29	
33 71 19 13-0042	EA		Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	183.13	
33 71 19 13-0043			Electrical Property Line Boxes <small>(33 71 19 13)</small>		
33 71 19 13-0044	EA		3'-6" x 2'-9" x 2' Deep Property Line Box	2,829.92	387.40
33 71 19 13-0045	EA		4'-6" x 3'-6" x 4' Deep Property Line Box	3,278.35	401.75
33 71 19 13-0046	EA		6' x 4' x 5' Deep Property Line Box	3,638.68	487.83
33 71 19 13-0047	EA		11'-6" x 4'-6" x 6' Deep Property Line Box	5,545.10	717.41
33 71 19 13-0048			Manhole Accessories <small>(33 71 19 13)</small>		
33 71 19 13-0049	EA		6" Precast Grade Ring Riser Casting.....	597.96	
33 71 19 13-0050	EA		12" Precast Grade Ring Riser Casting.....	647.56	
33 71 19 13-0051	EA		36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	2,141.38	
33 71 19 13-0052	EA		42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	2,788.67	
33 71 19 13-0053	EA		Cast Iron Adjusting Ring (NEENAH #R-1979)	929.53	
33 71 19 13-0054	EA		Cast Iron Frame And Cover (NEENAH #R-1640-B).....	1,171.70	
33 71 19 23			Trenched Electrical Underground Duct and Ductbanks <small>(33 71 19)</small>		
33 71 19 23-0001			Underground Electrical Concrete Markers <small>(33 71 19 23)</small>		
33 71 19 23-0002	EA		36" x 6" x 6", Underground Electric Concrete Marker	413.77	

END OF SECTION 33



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) <small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-2059 for bolts, 40 05 19 00-2074 for gaskets.</small>		
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)		
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 724.15		257.53
	For Class 52 Rating, Deduct	-36.74	
	For Class 54 Rating, Add	54.78	
	For Class 55 Rating, Add	83.84	
	For Class 56 Rating, Add	112.57	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 766.70		262.02
	For Class 52 Rating, Deduct	-40.67	
	For Class 54 Rating, Add	60.22	
	For Class 55 Rating, Add	91.97	
	For Class 56 Rating, Add	123.35	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 809.26		266.53
	For Class 52 Rating, Deduct	-44.60	
	For Class 54 Rating, Add	65.66	
	For Class 55 Rating, Add	100.10	
	For Class 56 Rating, Add	134.14	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 851.82		271.03
	For Class 52 Rating, Deduct	-48.53	
	For Class 54 Rating, Add	71.10	
	For Class 55 Rating, Add	108.23	
	For Class 56 Rating, Add	144.93	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 894.37		275.54
	For Class 52 Rating, Deduct	-52.46	
	For Class 54 Rating, Add	76.54	
	For Class 55 Rating, Add	116.37	
	For Class 56 Rating, Add	155.71	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 936.91		280.04
	For Class 52 Rating, Deduct	-56.39	
	For Class 54 Rating, Add	81.98	
	For Class 55 Rating, Add	124.50	
	For Class 56 Rating, Add	166.50	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 979.47		284.54
	For Class 52 Rating, Deduct	-60.32	
	For Class 54 Rating, Add	87.43	
	For Class 55 Rating, Add	132.63	
	For Class 56 Rating, Add	177.28	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,022.03		289.04
	For Class 52 Rating, Deduct	-64.25	
	For Class 54 Rating, Add	92.87	
	For Class 55 Rating, Add	140.76	
	For Class 56 Rating, Add	188.07	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,064.58		293.55
	For Class 52 Rating, Deduct	-68.18	
	For Class 54 Rating, Add	98.31	
	For Class 55 Rating, Add	148.89	
	For Class 56 Rating, Add	198.86	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,107.14		298.05
	For Class 52 Rating, Deduct	-72.11	
	For Class 54 Rating, Add	103.75	
	For Class 55 Rating, Add	157.03	
	For Class 56 Rating, Add	209.64	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,149.69		302.54
	For Class 52 Rating, Deduct	-76.04	
	For Class 54 Rating, Add	109.19	
	For Class 55 Rating, Add	165.16	
	For Class 56 Rating, Add	220.43	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,192.25		307.05
	For Class 52 Rating, Deduct	-79.97	
	For Class 54 Rating, Add	114.64	
	For Class 55 Rating, Add	173.29	
	For Class 56 Rating, Add	231.22	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe 1,234.80		311.55
	For Class 52 Rating, Deduct	-83.90	
	For Class 54 Rating, Add	120.08	
	For Class 55 Rating, Add	181.42	
	For Class 56 Rating, Add	242.01	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,277.35	316.06
		<i>For Class 52 Rating, Deduct</i>	-87.83	
		<i>For Class 54 Rating, Add</i>	125.52	
		<i>For Class 55 Rating, Add</i>	189.55	
		<i>For Class 56 Rating, Add</i>	252.79	
40 05 19 00-0018	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.90	320.55
		<i>For Class 52 Rating, Deduct</i>	-91.76	
		<i>For Class 54 Rating, Add</i>	130.96	
		<i>For Class 55 Rating, Add</i>	197.69	
		<i>For Class 56 Rating, Add</i>	263.58	
40 05 19 00-0019	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,362.45	325.06
		<i>For Class 52 Rating, Deduct</i>	-95.69	
		<i>For Class 54 Rating, Add</i>	136.40	
		<i>For Class 55 Rating, Add</i>	205.82	
		<i>For Class 56 Rating, Add</i>	274.36	
40 05 19 00-0020	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.02	329.56
		<i>For Class 52 Rating, Deduct</i>	-99.62	
		<i>For Class 54 Rating, Add</i>	141.84	
		<i>For Class 55 Rating, Add</i>	213.95	
		<i>For Class 56 Rating, Add</i>	285.15	
40 05 19 00-0021	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,447.57	334.07
		<i>For Class 52 Rating, Deduct</i>	-103.56	
		<i>For Class 54 Rating, Add</i>	147.29	
		<i>For Class 55 Rating, Add</i>	222.08	
		<i>For Class 56 Rating, Add</i>	295.94	
40 05 19 00-0022	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,490.12	338.56
		<i>For Class 52 Rating, Deduct</i>	-107.49	
		<i>For Class 54 Rating, Add</i>	152.73	
		<i>For Class 55 Rating, Add</i>	230.21	
		<i>For Class 56 Rating, Add</i>	306.72	
40 05 19 00-0023	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,532.67	343.07
		<i>For Class 52 Rating, Deduct</i>	-111.42	
		<i>For Class 54 Rating, Add</i>	158.17	
		<i>For Class 55 Rating, Add</i>	238.35	
		<i>For Class 56 Rating, Add</i>	317.51	
40 05 19 00-0024	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,575.23	347.57
		<i>For Class 52 Rating, Deduct</i>	-115.35	
		<i>For Class 54 Rating, Add</i>	163.61	
		<i>For Class 55 Rating, Add</i>	246.48	
		<i>For Class 56 Rating, Add</i>	328.30	
40 05 19 00-0025	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,617.78	352.07
		<i>For Class 52 Rating, Deduct</i>	-119.28	
		<i>For Class 54 Rating, Add</i>	169.05	
		<i>For Class 55 Rating, Add</i>	254.61	
		<i>For Class 56 Rating, Add</i>	339.08	
40 05 19 00-0026	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,660.33	356.58
		<i>For Class 52 Rating, Deduct</i>	-123.21	
		<i>For Class 54 Rating, Add</i>	174.49	
		<i>For Class 55 Rating, Add</i>	262.74	
		<i>For Class 56 Rating, Add</i>	349.87	
40 05 19 00-0027	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,702.89	361.07
		<i>For Class 52 Rating, Deduct</i>	-127.14	
		<i>For Class 54 Rating, Add</i>	179.94	
		<i>For Class 55 Rating, Add</i>	270.87	
		<i>For Class 56 Rating, Add</i>	360.66	
40 05 19 00-0028	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,745.45	365.58
		<i>For Class 52 Rating, Deduct</i>	-131.07	
		<i>For Class 54 Rating, Add</i>	185.38	
		<i>For Class 55 Rating, Add</i>	279.01	
		<i>For Class 56 Rating, Add</i>	371.45	
40 05 19 00-0029	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,788.00	370.08
		<i>For Class 52 Rating, Deduct</i>	-135.00	
		<i>For Class 54 Rating, Add</i>	190.82	
		<i>For Class 55 Rating, Add</i>	287.14	
		<i>For Class 56 Rating, Add</i>	382.23	
40 05 19 00-0030	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,830.55	374.59
		<i>For Class 52 Rating, Deduct</i>	-138.93	
		<i>For Class 54 Rating, Add</i>	196.26	
		<i>For Class 55 Rating, Add</i>	295.27	
		<i>For Class 56 Rating, Add</i>	393.02	
40 05 19 00-0031	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,873.10	379.08
		<i>For Class 52 Rating, Deduct</i>	-142.86	
		<i>For Class 54 Rating, Add</i>	201.70	
		<i>For Class 55 Rating, Add</i>	303.40	
		<i>For Class 56 Rating, Add</i>	403.80	
40 05 19 00-0032	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,915.65	383.59
		<i>For Class 52 Rating, Deduct</i>	-146.79	
		<i>For Class 54 Rating, Add</i>	207.14	
		<i>For Class 55 Rating, Add</i>	311.53	
		<i>For Class 56 Rating, Add</i>	414.59	
40 05 19 00-0033	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,958.22	388.09
		<i>For Class 52 Rating, Deduct</i>	-150.72	
		<i>For Class 54 Rating, Add</i>	212.59	
		<i>For Class 55 Rating, Add</i>	319.67	
		<i>For Class 56 Rating, Add</i>	425.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,000.77	392.60
For Class 52 Rating, Deduct	-154.65	
For Class 54 Rating, Add	218.03	
For Class 55 Rating, Add	327.80	
For Class 56 Rating, Add	436.16	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,043.32	397.09
For Class 52 Rating, Deduct	-158.58	
For Class 54 Rating, Add	223.47	
For Class 55 Rating, Add	335.93	
For Class 56 Rating, Add	446.95	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.87	401.59
For Class 52 Rating, Deduct	-162.51	
For Class 54 Rating, Add	228.91	
For Class 55 Rating, Add	344.06	
For Class 56 Rating, Add	457.74	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,128.43	406.10
For Class 52 Rating, Deduct	-166.44	
For Class 54 Rating, Add	234.35	
For Class 55 Rating, Add	352.20	
For Class 56 Rating, Add	468.52	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,170.98	410.60
For Class 52 Rating, Deduct	-170.37	
For Class 54 Rating, Add	239.79	
For Class 55 Rating, Add	360.33	
For Class 56 Rating, Add	479.31	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,213.53	415.11
For Class 52 Rating, Deduct	-174.30	
For Class 54 Rating, Add	245.24	
For Class 55 Rating, Add	368.46	
For Class 56 Rating, Add	490.10	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,256.09	419.60
For Class 52 Rating, Deduct	-178.24	
For Class 54 Rating, Add	250.68	
For Class 55 Rating, Add	376.59	
For Class 56 Rating, Add	500.88	
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,298.65	424.11
For Class 52 Rating, Deduct	-182.17	
For Class 54 Rating, Add	256.12	
For Class 55 Rating, Add	384.72	
For Class 56 Rating, Add	511.67	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,341.20	428.61
For Class 52 Rating, Deduct	-186.10	
For Class 54 Rating, Add	261.56	
For Class 55 Rating, Add	392.86	
For Class 56 Rating, Add	522.46	
 40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	915.81	324.16
For Class 52 Rating, Deduct	-46.71	
For Class 54 Rating, Add	69.59	
For Class 55 Rating, Add	106.49	
For Class 56 Rating, Add	142.96	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	966.61	328.66
For Class 52 Rating, Deduct	-51.55	
For Class 54 Rating, Add	76.27	
For Class 55 Rating, Add	116.46	
For Class 56 Rating, Add	156.18	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,017.42	333.17
For Class 52 Rating, Deduct	-56.39	
For Class 54 Rating, Add	82.95	
For Class 55 Rating, Add	126.43	
For Class 56 Rating, Add	169.40	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,068.21	337.67
For Class 52 Rating, Deduct	-61.23	
For Class 54 Rating, Add	89.63	
For Class 55 Rating, Add	136.40	
For Class 56 Rating, Add	182.61	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.01	342.16
For Class 52 Rating, Deduct	-66.06	
For Class 54 Rating, Add	96.31	
For Class 55 Rating, Add	146.37	
For Class 56 Rating, Add	195.83	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,169.82	346.67
For Class 52 Rating, Deduct	-70.90	
For Class 54 Rating, Add	102.99	
For Class 55 Rating, Add	156.34	
For Class 56 Rating, Add	209.05	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,220.61	351.17
For Class 52 Rating, Deduct	-75.74	
For Class 54 Rating, Add	109.66	
For Class 55 Rating, Add	166.31	
For Class 56 Rating, Add	222.27	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0051	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,271.41	355.68
		For Class 52 Rating, Deduct	-80.58	
		For Class 54 Rating, Add	116.34	
		For Class 55 Rating, Add	176.28	
		For Class 56 Rating, Add	235.49	
40 05 19 00-0052	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,322.21	360.17
		For Class 52 Rating, Deduct	-85.41	
		For Class 54 Rating, Add	123.02	
		For Class 55 Rating, Add	186.25	
		For Class 56 Rating, Add	248.71	
40 05 19 00-0053	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,373.02	364.68
		For Class 52 Rating, Deduct	-90.25	
		For Class 54 Rating, Add	129.70	
		For Class 55 Rating, Add	196.23	
		For Class 56 Rating, Add	261.93	
40 05 19 00-0054	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,423.81	369.18
		For Class 52 Rating, Deduct	-95.09	
		For Class 54 Rating, Add	136.38	
		For Class 55 Rating, Add	206.20	
		For Class 56 Rating, Add	275.15	
40 05 19 00-0055	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,474.61	373.69
		For Class 52 Rating, Deduct	-99.93	
		For Class 54 Rating, Add	143.06	
		For Class 55 Rating, Add	216.17	
		For Class 56 Rating, Add	288.37	
40 05 19 00-0056	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,525.41	378.18
		For Class 52 Rating, Deduct	-104.76	
		For Class 54 Rating, Add	149.74	
		For Class 55 Rating, Add	226.14	
		For Class 56 Rating, Add	301.59	
40 05 19 00-0057	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,576.21	382.69
		For Class 52 Rating, Deduct	-109.60	
		For Class 54 Rating, Add	156.41	
		For Class 55 Rating, Add	236.11	
		For Class 56 Rating, Add	314.81	
40 05 19 00-0058	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,627.01	387.19
		For Class 52 Rating, Deduct	-114.44	
		For Class 54 Rating, Add	163.09	
		For Class 55 Rating, Add	246.08	
		For Class 56 Rating, Add	328.03	
40 05 19 00-0059	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,677.82	391.69
		For Class 52 Rating, Deduct	-119.28	
		For Class 54 Rating, Add	169.77	
		For Class 55 Rating, Add	256.05	
		For Class 56 Rating, Add	341.25	
40 05 19 00-0060	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,728.62	396.19
		For Class 52 Rating, Deduct	-124.12	
		For Class 54 Rating, Add	176.45	
		For Class 55 Rating, Add	266.02	
		For Class 56 Rating, Add	354.47	
40 05 19 00-0061	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,779.41	400.69
		For Class 52 Rating, Deduct	-128.95	
		For Class 54 Rating, Add	183.13	
		For Class 55 Rating, Add	275.99	
		For Class 56 Rating, Add	367.68	
40 05 19 00-0062	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,830.20	405.20
		For Class 52 Rating, Deduct	-133.79	
		For Class 54 Rating, Add	189.81	
		For Class 55 Rating, Add	285.96	
		For Class 56 Rating, Add	380.90	
40 05 19 00-0063	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,881.01	409.70
		For Class 52 Rating, Deduct	-138.63	
		For Class 54 Rating, Add	196.49	
		For Class 55 Rating, Add	295.93	
		For Class 56 Rating, Add	394.12	
40 05 19 00-0064	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,931.81	414.21
		For Class 52 Rating, Deduct	-143.47	
		For Class 54 Rating, Add	203.17	
		For Class 55 Rating, Add	305.91	
		For Class 56 Rating, Add	407.34	
40 05 19 00-0065	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,982.61	418.70
		For Class 52 Rating, Deduct	-148.30	
		For Class 54 Rating, Add	209.84	
		For Class 55 Rating, Add	315.88	
		For Class 56 Rating, Add	420.56	
40 05 19 00-0066	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,033.42	423.21
		For Class 52 Rating, Deduct	-153.14	
		For Class 54 Rating, Add	216.52	
		For Class 55 Rating, Add	325.85	
		For Class 56 Rating, Add	433.78	
40 05 19 00-0067	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,084.21	427.71
		For Class 52 Rating, Deduct	-157.98	
		For Class 54 Rating, Add	223.20	
		For Class 55 Rating, Add	335.82	
		For Class 56 Rating, Add	447.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,135.00	432.22
<i>For Class 52 Rating, Deduct</i>	-162.82	
<i>For Class 54 Rating, Add</i>	229.88	
<i>For Class 55 Rating, Add</i>	345.79	
<i>For Class 56 Rating, Add</i>	460.22	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,185.80	436.71
<i>For Class 52 Rating, Deduct</i>	-167.65	
<i>For Class 54 Rating, Add</i>	236.56	
<i>For Class 55 Rating, Add</i>	355.76	
<i>For Class 56 Rating, Add</i>	473.44	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.61	441.21
<i>For Class 52 Rating, Deduct</i>	-172.49	
<i>For Class 54 Rating, Add</i>	243.24	
<i>For Class 55 Rating, Add</i>	365.73	
<i>For Class 56 Rating, Add</i>	486.66	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.41	445.72
<i>For Class 52 Rating, Deduct</i>	-177.33	
<i>For Class 54 Rating, Add</i>	249.92	
<i>For Class 55 Rating, Add</i>	375.70	
<i>For Class 56 Rating, Add</i>	499.88	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.21	450.22
<i>For Class 52 Rating, Deduct</i>	-182.17	
<i>For Class 54 Rating, Add</i>	256.59	
<i>For Class 55 Rating, Add</i>	385.67	
<i>For Class 56 Rating, Add</i>	513.10	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,389.01	454.72
<i>For Class 52 Rating, Deduct</i>	-187.00	
<i>For Class 54 Rating, Add</i>	263.27	
<i>For Class 55 Rating, Add</i>	395.64	
<i>For Class 56 Rating, Add</i>	526.31	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,439.81	459.22
<i>For Class 52 Rating, Deduct</i>	-191.84	
<i>For Class 54 Rating, Add</i>	269.95	
<i>For Class 55 Rating, Add</i>	405.61	
<i>For Class 56 Rating, Add</i>	539.53	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,490.60	463.73
<i>For Class 52 Rating, Deduct</i>	-196.68	
<i>For Class 54 Rating, Add</i>	276.63	
<i>For Class 55 Rating, Add</i>	415.58	
<i>For Class 56 Rating, Add</i>	552.75	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,541.41	468.23
<i>For Class 52 Rating, Deduct</i>	-201.52	
<i>For Class 54 Rating, Add</i>	283.31	
<i>For Class 55 Rating, Add</i>	425.56	
<i>For Class 56 Rating, Add</i>	565.97	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,592.21	472.74
<i>For Class 52 Rating, Deduct</i>	-206.35	
<i>For Class 54 Rating, Add</i>	289.99	
<i>For Class 55 Rating, Add</i>	435.53	
<i>For Class 56 Rating, Add</i>	579.19	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,643.00	477.23
<i>For Class 52 Rating, Deduct</i>	-211.19	
<i>For Class 54 Rating, Add</i>	296.66	
<i>For Class 55 Rating, Add</i>	445.50	
<i>For Class 56 Rating, Add</i>	592.41	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,693.80	481.74
<i>For Class 52 Rating, Deduct</i>	-216.03	
<i>For Class 54 Rating, Add</i>	303.34	
<i>For Class 55 Rating, Add</i>	455.47	
<i>For Class 56 Rating, Add</i>	605.63	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.61	486.24
<i>For Class 52 Rating, Deduct</i>	-220.87	
<i>For Class 54 Rating, Add</i>	310.02	
<i>For Class 55 Rating, Add</i>	465.44	
<i>For Class 56 Rating, Add</i>	618.85	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.41	490.74
<i>For Class 52 Rating, Deduct</i>	-225.70	
<i>For Class 54 Rating, Add</i>	316.70	
<i>For Class 55 Rating, Add</i>	475.41	
<i>For Class 56 Rating, Add</i>	632.07	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,846.20	495.24
<i>For Class 52 Rating, Deduct</i>	-230.54	
<i>For Class 54 Rating, Add</i>	323.38	
<i>For Class 55 Rating, Add</i>	485.38	
<i>For Class 56 Rating, Add</i>	645.29	
40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0002)</small>		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,252.90	414.21
<i>For Class 52 Rating, Deduct</i>	-68.79	
<i>For Class 54 Rating, Add</i>	101.33	
<i>For Class 55 Rating, Add</i>	154.51	
<i>For Class 56 Rating, Add</i>	207.06	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,320.19	418.70
		<i>For Class 52 Rating, Deduct</i>	-75.44	
		<i>For Class 54 Rating, Add</i>	110.48	
		<i>For Class 55 Rating, Add</i>	168.16	
		<i>For Class 56 Rating, Add</i>	225.15	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,387.49	423.21
		<i>For Class 52 Rating, Deduct</i>	-82.09	
		<i>For Class 54 Rating, Add</i>	119.63	
		<i>For Class 55 Rating, Add</i>	181.81	
		<i>For Class 56 Rating, Add</i>	243.23	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,454.78	427.71
		<i>For Class 52 Rating, Deduct</i>	-88.74	
		<i>For Class 54 Rating, Add</i>	128.79	
		<i>For Class 55 Rating, Add</i>	195.45	
		<i>For Class 56 Rating, Add</i>	261.32	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,522.06	432.22
		<i>For Class 52 Rating, Deduct</i>	-95.39	
		<i>For Class 54 Rating, Add</i>	137.94	
		<i>For Class 55 Rating, Add</i>	209.10	
		<i>For Class 56 Rating, Add</i>	279.40	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.35	436.71
		<i>For Class 52 Rating, Deduct</i>	-102.04	
		<i>For Class 54 Rating, Add</i>	147.09	
		<i>For Class 55 Rating, Add</i>	222.75	
		<i>For Class 56 Rating, Add</i>	297.48	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,656.65	441.21
		<i>For Class 52 Rating, Deduct</i>	-108.70	
		<i>For Class 54 Rating, Add</i>	156.24	
		<i>For Class 55 Rating, Add</i>	236.40	
		<i>For Class 56 Rating, Add</i>	315.57	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,723.94	445.72
		<i>For Class 52 Rating, Deduct</i>	-115.35	
		<i>For Class 54 Rating, Add</i>	165.40	
		<i>For Class 55 Rating, Add</i>	250.05	
		<i>For Class 56 Rating, Add</i>	333.65	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,791.23	450.22
		<i>For Class 52 Rating, Deduct</i>	-122.00	
		<i>For Class 54 Rating, Add</i>	174.55	
		<i>For Class 55 Rating, Add</i>	263.70	
		<i>For Class 56 Rating, Add</i>	351.74	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,858.53	454.72
		<i>For Class 52 Rating, Deduct</i>	-128.65	
		<i>For Class 54 Rating, Add</i>	183.70	
		<i>For Class 55 Rating, Add</i>	277.35	
		<i>For Class 56 Rating, Add</i>	369.82	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,925.82	459.22
		<i>For Class 52 Rating, Deduct</i>	-135.30	
		<i>For Class 54 Rating, Add</i>	192.85	
		<i>For Class 55 Rating, Add</i>	290.99	
		<i>For Class 56 Rating, Add</i>	387.90	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,993.10	463.73
		<i>For Class 52 Rating, Deduct</i>	-141.95	
		<i>For Class 54 Rating, Add</i>	202.00	
		<i>For Class 55 Rating, Add</i>	304.64	
		<i>For Class 56 Rating, Add</i>	405.99	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,060.40	468.23
		<i>For Class 52 Rating, Deduct</i>	-148.61	
		<i>For Class 54 Rating, Add</i>	211.16	
		<i>For Class 55 Rating, Add</i>	318.29	
		<i>For Class 56 Rating, Add</i>	424.07	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,127.69	472.74
		<i>For Class 52 Rating, Deduct</i>	-155.26	
		<i>For Class 54 Rating, Add</i>	220.31	
		<i>For Class 55 Rating, Add</i>	331.94	
		<i>For Class 56 Rating, Add</i>	442.16	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,194.98	477.23
		<i>For Class 52 Rating, Deduct</i>	-161.91	
		<i>For Class 54 Rating, Add</i>	229.46	
		<i>For Class 55 Rating, Add</i>	345.59	
		<i>For Class 56 Rating, Add</i>	460.24	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.27	481.74
		<i>For Class 52 Rating, Deduct</i>	-168.56	
		<i>For Class 54 Rating, Add</i>	238.61	
		<i>For Class 55 Rating, Add</i>	359.24	
		<i>For Class 56 Rating, Add</i>	478.33	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,329.57	486.24
		<i>For Class 52 Rating, Deduct</i>	-175.21	
		<i>For Class 54 Rating, Add</i>	247.77	
		<i>For Class 55 Rating, Add</i>	372.88	
		<i>For Class 56 Rating, Add</i>	496.41	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,396.86	490.74
		<i>For Class 52 Rating, Deduct</i>	-181.86	
		<i>For Class 54 Rating, Add</i>	256.92	
		<i>For Class 55 Rating, Add</i>	386.53	
		<i>For Class 56 Rating, Add</i>	514.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.14	495.24
For Class 52 Rating, Deduct	-188.52	
For Class 54 Rating, Add	266.07	
For Class 55 Rating, Add	400.18	
For Class 56 Rating, Add	532.58	
40 05 19 00-0103 EA 8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,531.44	499.74
For Class 52 Rating, Deduct	-195.17	
For Class 54 Rating, Add	275.22	
For Class 55 Rating, Add	413.83	
For Class 56 Rating, Add	550.66	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,598.73	504.25
For Class 52 Rating, Deduct	-201.82	
For Class 54 Rating, Add	284.38	
For Class 55 Rating, Add	427.48	
For Class 56 Rating, Add	568.75	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,666.02	508.75
For Class 52 Rating, Deduct	-208.47	
For Class 54 Rating, Add	293.53	
For Class 55 Rating, Add	441.13	
For Class 56 Rating, Add	586.83	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,733.31	513.25
For Class 52 Rating, Deduct	-215.12	
For Class 54 Rating, Add	302.68	
For Class 55 Rating, Add	454.78	
For Class 56 Rating, Add	604.92	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,800.61	517.75
For Class 52 Rating, Deduct	-221.77	
For Class 54 Rating, Add	311.83	
For Class 55 Rating, Add	468.42	
For Class 56 Rating, Add	623.00	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,867.90	522.26
For Class 52 Rating, Deduct	-228.43	
For Class 54 Rating, Add	320.99	
For Class 55 Rating, Add	482.07	
For Class 56 Rating, Add	641.08	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,935.18	526.76
For Class 52 Rating, Deduct	-235.08	
For Class 54 Rating, Add	330.14	
For Class 55 Rating, Add	495.72	
For Class 56 Rating, Add	659.17	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,002.48	531.26
For Class 52 Rating, Deduct	-241.73	
For Class 54 Rating, Add	339.29	
For Class 55 Rating, Add	509.37	
For Class 56 Rating, Add	677.25	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.77	535.76
For Class 52 Rating, Deduct	-248.38	
For Class 54 Rating, Add	348.44	
For Class 55 Rating, Add	523.02	
For Class 56 Rating, Add	695.34	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,137.06	540.26
For Class 52 Rating, Deduct	-255.03	
For Class 54 Rating, Add	357.59	
For Class 55 Rating, Add	536.67	
For Class 56 Rating, Add	713.42	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,204.36	544.77
For Class 52 Rating, Deduct	-261.68	
For Class 54 Rating, Add	366.75	
For Class 55 Rating, Add	550.32	
For Class 56 Rating, Add	731.51	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,271.65	549.27
For Class 52 Rating, Deduct	-268.34	
For Class 54 Rating, Add	375.90	
For Class 55 Rating, Add	563.96	
For Class 56 Rating, Add	749.59	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,338.94	553.77
For Class 52 Rating, Deduct	-274.99	
For Class 54 Rating, Add	385.05	
For Class 55 Rating, Add	577.61	
For Class 56 Rating, Add	767.67	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,406.23	558.27
For Class 52 Rating, Deduct	-281.64	
For Class 54 Rating, Add	394.20	
For Class 55 Rating, Add	591.26	
For Class 56 Rating, Add	785.76	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,473.52	562.78
For Class 52 Rating, Deduct	-288.29	
For Class 54 Rating, Add	403.36	
For Class 55 Rating, Add	604.91	
For Class 56 Rating, Add	803.84	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,540.81	567.28
For Class 52 Rating, Deduct	-294.94	
For Class 54 Rating, Add	412.51	
For Class 55 Rating, Add	618.56	
For Class 56 Rating, Add	821.93	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,608.10	571.78
		For Class 52 Rating, Deduct	-301.59	
		For Class 54 Rating, Add	421.66	
		For Class 55 Rating, Add	632.21	
		For Class 56 Rating, Add	840.01	
40 05 19 00-0120	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,675.40	576.28
		For Class 52 Rating, Deduct	-308.25	
		For Class 54 Rating, Add	430.81	
		For Class 55 Rating, Add	645.86	
		For Class 56 Rating, Add	858.09	
40 05 19 00-0121	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,742.69	580.79
		For Class 52 Rating, Deduct	-314.90	
		For Class 54 Rating, Add	439.97	
		For Class 55 Rating, Add	659.50	
		For Class 56 Rating, Add	876.18	
40 05 19 00-0122	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,809.98	585.29
		For Class 52 Rating, Deduct	-321.55	
		For Class 54 Rating, Add	449.12	
		For Class 55 Rating, Add	673.15	
		For Class 56 Rating, Add	894.26	
40 05 19 00-0123		10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0124	EA	10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,566.61	504.25
		For Class 52 Rating, Deduct	-88.29	
		For Class 54 Rating, Add	129.56	
		For Class 55 Rating, Add	197.32	
		For Class 56 Rating, Add	264.27	
40 05 19 00-0125	EA	10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,653.14	508.75
		For Class 52 Rating, Deduct	-97.05	
		For Class 54 Rating, Add	141.60	
		For Class 55 Rating, Add	215.26	
		For Class 56 Rating, Add	288.03	
40 05 19 00-0126	EA	10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,739.67	513.25
		For Class 52 Rating, Deduct	-105.82	
		For Class 54 Rating, Add	153.63	
		For Class 55 Rating, Add	233.19	
		For Class 56 Rating, Add	311.79	
40 05 19 00-0127	EA	10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,826.21	517.75
		For Class 52 Rating, Deduct	-114.59	
		For Class 54 Rating, Add	165.67	
		For Class 55 Rating, Add	251.13	
		For Class 56 Rating, Add	335.55	
40 05 19 00-0128	EA	10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,912.75	522.26
		For Class 52 Rating, Deduct	-123.36	
		For Class 54 Rating, Add	177.71	
		For Class 55 Rating, Add	269.07	
		For Class 56 Rating, Add	359.31	
40 05 19 00-0129	EA	10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,999.27	526.76
		For Class 52 Rating, Deduct	-132.13	
		For Class 54 Rating, Add	189.75	
		For Class 55 Rating, Add	287.01	
		For Class 56 Rating, Add	383.07	
40 05 19 00-0130	EA	10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.81	531.26
		For Class 52 Rating, Deduct	-140.90	
		For Class 54 Rating, Add	201.79	
		For Class 55 Rating, Add	304.95	
		For Class 56 Rating, Add	406.83	
40 05 19 00-0131	EA	10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,172.34	535.76
		For Class 52 Rating, Deduct	-149.66	
		For Class 54 Rating, Add	213.83	
		For Class 55 Rating, Add	322.89	
		For Class 56 Rating, Add	430.59	
40 05 19 00-0132	EA	10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,258.87	540.26
		For Class 52 Rating, Deduct	-158.43	
		For Class 54 Rating, Add	225.87	
		For Class 55 Rating, Add	340.83	
		For Class 56 Rating, Add	454.35	
40 05 19 00-0133	EA	10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,345.41	544.77
		For Class 52 Rating, Deduct	-167.20	
		For Class 54 Rating, Add	237.90	
		For Class 55 Rating, Add	358.77	
		For Class 56 Rating, Add	478.11	
40 05 19 00-0134	EA	10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,431.94	549.27
		For Class 52 Rating, Deduct	-175.97	
		For Class 54 Rating, Add	249.94	
		For Class 55 Rating, Add	376.71	
		For Class 56 Rating, Add	501.87	
40 05 19 00-0135	EA	10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,518.47	553.77
		For Class 52 Rating, Deduct	-184.74	
		For Class 54 Rating, Add	261.98	
		For Class 55 Rating, Add	394.65	
		For Class 56 Rating, Add	525.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,605.00	558.27
For Class 52 Rating, Deduct	-193.50	
For Class 54 Rating, Add	274.02	
For Class 55 Rating, Add	412.59	
For Class 56 Rating, Add	549.39	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,691.53	562.78
For Class 52 Rating, Deduct	-202.27	
For Class 54 Rating, Add	286.06	
For Class 55 Rating, Add	430.53	
For Class 56 Rating, Add	573.15	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,778.06	567.28
For Class 52 Rating, Deduct	-211.04	
For Class 54 Rating, Add	298.10	
For Class 55 Rating, Add	448.46	
For Class 56 Rating, Add	596.91	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,864.59	571.78
For Class 52 Rating, Deduct	-219.81	
For Class 54 Rating, Add	310.13	
For Class 55 Rating, Add	466.40	
For Class 56 Rating, Add	620.67	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,951.13	576.28
For Class 52 Rating, Deduct	-228.58	
For Class 54 Rating, Add	322.17	
For Class 55 Rating, Add	484.34	
For Class 56 Rating, Add	644.43	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,037.66	580.79
For Class 52 Rating, Deduct	-237.34	
For Class 54 Rating, Add	334.21	
For Class 55 Rating, Add	502.28	
For Class 56 Rating, Add	668.19	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,124.19	585.29
For Class 52 Rating, Deduct	-246.11	
For Class 54 Rating, Add	346.25	
For Class 55 Rating, Add	520.22	
For Class 56 Rating, Add	691.95	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,210.72	589.78
For Class 52 Rating, Deduct	-254.88	
For Class 54 Rating, Add	358.29	
For Class 55 Rating, Add	538.16	
For Class 56 Rating, Add	715.71	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,297.25	594.29
For Class 52 Rating, Deduct	-263.65	
For Class 54 Rating, Add	370.33	
For Class 55 Rating, Add	556.10	
For Class 56 Rating, Add	739.47	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,383.78	598.79
For Class 52 Rating, Deduct	-272.42	
For Class 54 Rating, Add	382.37	
For Class 55 Rating, Add	574.04	
For Class 56 Rating, Add	763.23	
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,470.32	603.30
For Class 52 Rating, Deduct	-281.19	
For Class 54 Rating, Add	394.40	
For Class 55 Rating, Add	591.98	
For Class 56 Rating, Add	787.00	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,556.86	607.80
For Class 52 Rating, Deduct	-289.95	
For Class 54 Rating, Add	406.44	
For Class 55 Rating, Add	609.92	
For Class 56 Rating, Add	810.76	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,643.39	612.30
For Class 52 Rating, Deduct	-298.72	
For Class 54 Rating, Add	418.48	
For Class 55 Rating, Add	627.86	
For Class 56 Rating, Add	834.52	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,729.92	616.80
For Class 52 Rating, Deduct	-307.49	
For Class 54 Rating, Add	430.52	
For Class 55 Rating, Add	645.80	
For Class 56 Rating, Add	858.28	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,816.45	621.31
For Class 52 Rating, Deduct	-316.26	
For Class 54 Rating, Add	442.56	
For Class 55 Rating, Add	663.74	
For Class 56 Rating, Add	882.04	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,902.98	625.81
For Class 52 Rating, Deduct	-325.03	
For Class 54 Rating, Add	454.60	
For Class 55 Rating, Add	681.67	
For Class 56 Rating, Add	905.80	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,989.51	630.31
For Class 52 Rating, Deduct	-333.80	
For Class 54 Rating, Add	466.64	
For Class 55 Rating, Add	699.61	
For Class 56 Rating, Add	929.56	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,076.04	634.81
		<i>For Class 52 Rating, Deduct</i>	<i>-342.56</i>	
		<i>For Class 54 Rating, Add</i>	<i>478.67</i>	
		<i>For Class 55 Rating, Add</i>	<i>717.55</i>	
		<i>For Class 56 Rating, Add</i>	<i>953.32</i>	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,162.58	639.31
		<i>For Class 52 Rating, Deduct</i>	<i>-351.33</i>	
		<i>For Class 54 Rating, Add</i>	<i>490.71</i>	
		<i>For Class 55 Rating, Add</i>	<i>735.49</i>	
		<i>For Class 56 Rating, Add</i>	<i>977.08</i>	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,247.74	643.82
		<i>For Class 52 Rating, Deduct</i>	<i>-359.95</i>	
		<i>For Class 54 Rating, Add</i>	<i>502.54</i>	
		<i>For Class 55 Rating, Add</i>	<i>753.13</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,000.43</i>	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,335.64	648.31
		<i>For Class 52 Rating, Deduct</i>	<i>-368.87</i>	
		<i>For Class 54 Rating, Add</i>	<i>514.79</i>	
		<i>For Class 55 Rating, Add</i>	<i>771.37</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,024.60</i>	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,422.18	652.82
		<i>For Class 52 Rating, Deduct</i>	<i>-377.64</i>	
		<i>For Class 54 Rating, Add</i>	<i>526.83</i>	
		<i>For Class 55 Rating, Add</i>	<i>789.31</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,048.36</i>	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,508.70	657.32
		<i>For Class 52 Rating, Deduct</i>	<i>-386.40</i>	
		<i>For Class 54 Rating, Add</i>	<i>538.87</i>	
		<i>For Class 55 Rating, Add</i>	<i>807.25</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,072.12</i>	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,595.23	661.83
		<i>For Class 52 Rating, Deduct</i>	<i>-395.17</i>	
		<i>For Class 54 Rating, Add</i>	<i>550.90</i>	
		<i>For Class 55 Rating, Add</i>	<i>825.19</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,095.88</i>	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,681.76	666.33
		<i>For Class 52 Rating, Deduct</i>	<i>-403.94</i>	
		<i>For Class 54 Rating, Add</i>	<i>562.94</i>	
		<i>For Class 55 Rating, Add</i>	<i>843.13</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,119.64</i>	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,768.30	670.83
		<i>For Class 52 Rating, Deduct</i>	<i>-412.71</i>	
		<i>For Class 54 Rating, Add</i>	<i>574.98</i>	
		<i>For Class 55 Rating, Add</i>	<i>861.07</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,143.40</i>	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,854.83	675.33
		<i>For Class 52 Rating, Deduct</i>	<i>-421.48</i>	
		<i>For Class 54 Rating, Add</i>	<i>587.02</i>	
		<i>For Class 55 Rating, Add</i>	<i>879.00</i>	
		<i>For Class 56 Rating, Add</i>	<i>1,167.16</i>	
40 05 19 00-0163		12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0002)</small>				
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,029.73	630.31
		<i>For Class 52 Rating, Deduct</i>	<i>-118.22</i>	
		<i>For Class 54 Rating, Add</i>	<i>172.67</i>	
		<i>For Class 55 Rating, Add</i>	<i>262.58</i>	
		<i>For Class 56 Rating, Add</i>	<i>351.42</i>	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,136.87	634.81
		<i>For Class 52 Rating, Deduct</i>	<i>-129.25</i>	
		<i>For Class 54 Rating, Add</i>	<i>187.80</i>	
		<i>For Class 55 Rating, Add</i>	<i>285.12</i>	
		<i>For Class 56 Rating, Add</i>	<i>381.26</i>	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.03	639.31
		<i>For Class 52 Rating, Deduct</i>	<i>-140.29</i>	
		<i>For Class 54 Rating, Add</i>	<i>202.93</i>	
		<i>For Class 55 Rating, Add</i>	<i>307.66</i>	
		<i>For Class 56 Rating, Add</i>	<i>411.11</i>	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.17	643.82
		<i>For Class 52 Rating, Deduct</i>	<i>-151.33</i>	
		<i>For Class 54 Rating, Add</i>	<i>218.06</i>	
		<i>For Class 55 Rating, Add</i>	<i>330.19</i>	
		<i>For Class 56 Rating, Add</i>	<i>440.95</i>	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,458.32	648.31
		<i>For Class 52 Rating, Deduct</i>	<i>-162.36</i>	
		<i>For Class 54 Rating, Add</i>	<i>233.19</i>	
		<i>For Class 55 Rating, Add</i>	<i>352.73</i>	
		<i>For Class 56 Rating, Add</i>	<i>470.79</i>	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,565.47	652.82
		<i>For Class 52 Rating, Deduct</i>	<i>-173.40</i>	
		<i>For Class 54 Rating, Add</i>	<i>248.32</i>	
		<i>For Class 55 Rating, Add</i>	<i>375.26</i>	
		<i>For Class 56 Rating, Add</i>	<i>500.63</i>	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,672.61	657.32
		<i>For Class 52 Rating, Deduct</i>	-184.43	
		<i>For Class 54 Rating, Add</i>	263.45	
		<i>For Class 55 Rating, Add</i>	397.80	
		<i>For Class 56 Rating, Add</i>	530.47	
40 05 19 00-0171	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,779.76	661.83
		<i>For Class 52 Rating, Deduct</i>	-195.47	
		<i>For Class 54 Rating, Add</i>	278.58	
		<i>For Class 55 Rating, Add</i>	420.34	
		<i>For Class 56 Rating, Add</i>	560.31	
40 05 19 00-0172	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,886.90	666.33
		<i>For Class 52 Rating, Deduct</i>	-206.51	
		<i>For Class 54 Rating, Add</i>	293.71	
		<i>For Class 55 Rating, Add</i>	442.87	
		<i>For Class 56 Rating, Add</i>	590.15	
40 05 19 00-0173	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,994.06	670.83
		<i>For Class 52 Rating, Deduct</i>	-217.54	
		<i>For Class 54 Rating, Add</i>	308.84	
		<i>For Class 55 Rating, Add</i>	465.41	
		<i>For Class 56 Rating, Add</i>	620.00	
40 05 19 00-0174	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,101.20	675.33
		<i>For Class 52 Rating, Deduct</i>	-228.58	
		<i>For Class 54 Rating, Add</i>	323.97	
		<i>For Class 55 Rating, Add</i>	487.94	
		<i>For Class 56 Rating, Add</i>	649.84	
40 05 19 00-0175	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,208.35	679.84
		<i>For Class 52 Rating, Deduct</i>	-239.61	
		<i>For Class 54 Rating, Add</i>	339.11	
		<i>For Class 55 Rating, Add</i>	510.48	
		<i>For Class 56 Rating, Add</i>	679.68	
40 05 19 00-0176	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,315.50	684.34
		<i>For Class 52 Rating, Deduct</i>	-250.65	
		<i>For Class 54 Rating, Add</i>	354.24	
		<i>For Class 55 Rating, Add</i>	533.02	
		<i>For Class 56 Rating, Add</i>	709.52	
40 05 19 00-0177	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,422.64	688.83
		<i>For Class 52 Rating, Deduct</i>	-261.68	
		<i>For Class 54 Rating, Add</i>	369.37	
		<i>For Class 55 Rating, Add</i>	555.55	
		<i>For Class 56 Rating, Add</i>	739.36	
40 05 19 00-0178	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,529.78	693.34
		<i>For Class 52 Rating, Deduct</i>	-272.72	
		<i>For Class 54 Rating, Add</i>	384.50	
		<i>For Class 55 Rating, Add</i>	578.09	
		<i>For Class 56 Rating, Add</i>	769.20	
40 05 19 00-0179	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,636.93	697.84
		<i>For Class 52 Rating, Deduct</i>	-283.76	
		<i>For Class 54 Rating, Add</i>	399.63	
		<i>For Class 55 Rating, Add</i>	600.63	
		<i>For Class 56 Rating, Add</i>	799.05	
40 05 19 00-0180	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,744.08	702.35
		<i>For Class 52 Rating, Deduct</i>	-294.79	
		<i>For Class 54 Rating, Add</i>	414.76	
		<i>For Class 55 Rating, Add</i>	623.16	
		<i>For Class 56 Rating, Add</i>	828.89	
40 05 19 00-0181	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,851.23	706.84
		<i>For Class 52 Rating, Deduct</i>	-305.83	
		<i>For Class 54 Rating, Add</i>	429.89	
		<i>For Class 55 Rating, Add</i>	645.70	
		<i>For Class 56 Rating, Add</i>	858.73	
40 05 19 00-0182	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,958.37	711.35
		<i>For Class 52 Rating, Deduct</i>	-316.86	
		<i>For Class 54 Rating, Add</i>	445.02	
		<i>For Class 55 Rating, Add</i>	668.23	
		<i>For Class 56 Rating, Add</i>	888.57	
40 05 19 00-0183	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,065.53	715.85
		<i>For Class 52 Rating, Deduct</i>	-327.90	
		<i>For Class 54 Rating, Add</i>	460.15	
		<i>For Class 55 Rating, Add</i>	690.77	
		<i>For Class 56 Rating, Add</i>	918.41	
40 05 19 00-0184	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,172.67	720.36
		<i>For Class 52 Rating, Deduct</i>	-338.94	
		<i>For Class 54 Rating, Add</i>	475.28	
		<i>For Class 55 Rating, Add</i>	713.31	
		<i>For Class 56 Rating, Add</i>	948.25	
40 05 19 00-0185	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,279.81	724.85
		<i>For Class 52 Rating, Deduct</i>	-349.97	
		<i>For Class 54 Rating, Add</i>	490.41	
		<i>For Class 55 Rating, Add</i>	735.84	
		<i>For Class 56 Rating, Add</i>	978.09	
40 05 19 00-0186	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,386.97	729.36
		<i>For Class 52 Rating, Deduct</i>	-361.01	
		<i>For Class 54 Rating, Add</i>	505.54	
		<i>For Class 55 Rating, Add</i>	758.38	
		<i>For Class 56 Rating, Add</i>	1,007.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187 EA 12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,494.11	733.86
For Class 52 Rating, Deduct	-372.04	
For Class 54 Rating, Add	520.67	
For Class 55 Rating, Add	780.92	
For Class 56 Rating, Add	1,037.78	
40 05 19 00-0188 EA 12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,601.26	738.36
For Class 52 Rating, Deduct	-383.08	
For Class 54 Rating, Add	535.80	
For Class 55 Rating, Add	803.45	
For Class 56 Rating, Add	1,067.62	
40 05 19 00-0189 EA 12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,708.40	742.87
For Class 52 Rating, Deduct	-394.11	
For Class 54 Rating, Add	550.93	
For Class 55 Rating, Add	825.99	
For Class 56 Rating, Add	1,097.46	
40 05 19 00-0190 EA 12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,815.56	747.36
For Class 52 Rating, Deduct	-405.15	
For Class 54 Rating, Add	566.07	
For Class 55 Rating, Add	848.53	
For Class 56 Rating, Add	1,127.30	
40 05 19 00-0191 EA 12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,922.69	751.87
For Class 52 Rating, Deduct	-416.19	
For Class 54 Rating, Add	581.20	
For Class 55 Rating, Add	871.06	
For Class 56 Rating, Add	1,157.14	
40 05 19 00-0192 EA 12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,029.84	756.37
For Class 52 Rating, Deduct	-427.22	
For Class 54 Rating, Add	596.33	
For Class 55 Rating, Add	893.60	
For Class 56 Rating, Add	1,186.99	
40 05 19 00-0193 EA 12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,136.99	760.88
For Class 52 Rating, Deduct	-438.26	
For Class 54 Rating, Add	611.46	
For Class 55 Rating, Add	916.13	
For Class 56 Rating, Add	1,216.83	
40 05 19 00-0194 EA 12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,244.14	765.37
For Class 52 Rating, Deduct	-449.29	
For Class 54 Rating, Add	626.59	
For Class 55 Rating, Add	938.67	
For Class 56 Rating, Add	1,246.67	
40 05 19 00-0195 EA 12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,351.28	769.88
For Class 52 Rating, Deduct	-460.33	
For Class 54 Rating, Add	641.72	
For Class 55 Rating, Add	961.21	
For Class 56 Rating, Add	1,276.51	
40 05 19 00-0196 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,458.43	774.38
For Class 52 Rating, Deduct	-471.36	
For Class 54 Rating, Add	656.85	
For Class 55 Rating, Add	983.74	
For Class 56 Rating, Add	1,306.35	
40 05 19 00-0197 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,565.59	778.88
For Class 52 Rating, Deduct	-482.40	
For Class 54 Rating, Add	671.98	
For Class 55 Rating, Add	1,006.28	
For Class 56 Rating, Add	1,336.20	
40 05 19 00-0198 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,672.72	783.38
For Class 52 Rating, Deduct	-493.44	
For Class 54 Rating, Add	687.11	
For Class 55 Rating, Add	1,028.82	
For Class 56 Rating, Add	1,366.03	
40 05 19 00-0199 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,779.87	787.88
For Class 52 Rating, Deduct	-504.47	
For Class 54 Rating, Add	702.24	
For Class 55 Rating, Add	1,051.35	
For Class 56 Rating, Add	1,395.88	
40 05 19 00-0200 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,887.02	792.39
For Class 52 Rating, Deduct	-515.51	
For Class 54 Rating, Add	717.37	
For Class 55 Rating, Add	1,073.89	
For Class 56 Rating, Add	1,425.72	
40 05 19 00-0201 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,994.17	796.89
For Class 52 Rating, Deduct	-526.54	
For Class 54 Rating, Add	732.50	
For Class 55 Rating, Add	1,096.43	
For Class 56 Rating, Add	1,455.56	
40 05 19 00-0202 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,101.31	801.40
For Class 52 Rating, Deduct	-537.58	
For Class 54 Rating, Add	747.63	
For Class 55 Rating, Add	1,118.96	
For Class 56 Rating, Add	1,485.40	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,650.89	756.37
For Class 52 Rating, Deduct	-165.54	
For Class 54 Rating, Add	239.48	
For Class 55 Rating, Add	363.09	
For Class 56 Rating, Add	485.20	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,780.03	760.88
For Class 52 Rating, Deduct	-178.99	
For Class 54 Rating, Add	257.91	
For Class 55 Rating, Add	390.53	
For Class 56 Rating, Add	521.52	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,909.17	765.37
For Class 52 Rating, Deduct	-192.45	
For Class 54 Rating, Add	276.34	
For Class 55 Rating, Add	417.97	
For Class 56 Rating, Add	557.85	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,038.30	769.88
For Class 52 Rating, Deduct	-205.90	
For Class 54 Rating, Add	294.77	
For Class 55 Rating, Add	445.41	
For Class 56 Rating, Add	594.18	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,167.44	774.38
For Class 52 Rating, Deduct	-219.36	
For Class 54 Rating, Add	313.20	
For Class 55 Rating, Add	472.85	
For Class 56 Rating, Add	630.51	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,296.58	778.88
For Class 52 Rating, Deduct	-232.81	
For Class 54 Rating, Add	331.63	
For Class 55 Rating, Add	500.29	
For Class 56 Rating, Add	666.84	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,425.71	783.38
For Class 52 Rating, Deduct	-246.26	
For Class 54 Rating, Add	350.06	
For Class 55 Rating, Add	527.73	
For Class 56 Rating, Add	703.17	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,554.84	787.88
For Class 52 Rating, Deduct	-259.72	
For Class 54 Rating, Add	368.49	
For Class 55 Rating, Add	555.17	
For Class 56 Rating, Add	739.49	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,683.99	792.39
For Class 52 Rating, Deduct	-273.17	
For Class 54 Rating, Add	386.92	
For Class 55 Rating, Add	582.61	
For Class 56 Rating, Add	775.82	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,813.12	796.89
For Class 52 Rating, Deduct	-286.63	
For Class 54 Rating, Add	405.35	
For Class 55 Rating, Add	610.05	
For Class 56 Rating, Add	812.15	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,942.26	801.40
For Class 52 Rating, Deduct	-300.08	
For Class 54 Rating, Add	423.78	
For Class 55 Rating, Add	637.49	
For Class 56 Rating, Add	848.48	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,071.40	805.89
For Class 52 Rating, Deduct	-313.54	
For Class 54 Rating, Add	442.20	
For Class 55 Rating, Add	664.93	
For Class 56 Rating, Add	884.81	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,200.53	810.40
For Class 52 Rating, Deduct	-326.99	
For Class 54 Rating, Add	460.63	
For Class 55 Rating, Add	692.37	
For Class 56 Rating, Add	921.14	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,329.66	814.90
For Class 52 Rating, Deduct	-340.45	
For Class 54 Rating, Add	479.06	
For Class 55 Rating, Add	719.81	
For Class 56 Rating, Add	957.46	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,458.79	819.41
For Class 52 Rating, Deduct	-353.90	
For Class 54 Rating, Add	497.49	
For Class 55 Rating, Add	747.25	
For Class 56 Rating, Add	993.79	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,587.94	823.90
For Class 52 Rating, Deduct	-367.36	
For Class 54 Rating, Add	515.92	
For Class 55 Rating, Add	774.69	
For Class 56 Rating, Add	1,030.12	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,717.07	828.40
For Class 52 Rating, Deduct	-380.81	
For Class 54 Rating, Add	534.35	
For Class 55 Rating, Add	802.13	
For Class 56 Rating, Add	1,066.45	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0221	EA 14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,846.21	832.91
	For Class 52 Rating, Deduct	-394.27	
	For Class 54 Rating, Add	552.78	
	For Class 55 Rating, Add	829.57	
	For Class 56 Rating, Add	1,102.78	
40 05 19 00-0222	EA 14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,975.35	837.41
	For Class 52 Rating, Deduct	-407.72	
	For Class 54 Rating, Add	571.21	
	For Class 55 Rating, Add	857.01	
	For Class 56 Rating, Add	1,139.11	
40 05 19 00-0223	EA 14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,104.49	841.91
	For Class 52 Rating, Deduct	-421.17	
	For Class 54 Rating, Add	589.64	
	For Class 55 Rating, Add	884.45	
	For Class 56 Rating, Add	1,175.44	
40 05 19 00-0224	EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,233.61	846.41
	For Class 52 Rating, Deduct	-434.63	
	For Class 54 Rating, Add	608.06	
	For Class 55 Rating, Add	911.89	
	For Class 56 Rating, Add	1,211.76	
40 05 19 00-0225	EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,362.74	850.92
	For Class 52 Rating, Deduct	-448.08	
	For Class 54 Rating, Add	626.49	
	For Class 55 Rating, Add	939.33	
	For Class 56 Rating, Add	1,248.09	
40 05 19 00-0226	EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,491.89	855.42
	For Class 52 Rating, Deduct	-461.54	
	For Class 54 Rating, Add	644.92	
	For Class 55 Rating, Add	966.77	
	For Class 56 Rating, Add	1,284.42	
40 05 19 00-0227	EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,621.02	859.92
	For Class 52 Rating, Deduct	-474.99	
	For Class 54 Rating, Add	663.35	
	For Class 55 Rating, Add	994.21	
	For Class 56 Rating, Add	1,320.75	
40 05 19 00-0228	EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,750.16	864.42
	For Class 52 Rating, Deduct	-488.45	
	For Class 54 Rating, Add	681.78	
	For Class 55 Rating, Add	1,021.65	
	For Class 56 Rating, Add	1,357.08	
40 05 19 00-0229	EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,879.30	868.93
	For Class 52 Rating, Deduct	-501.90	
	For Class 54 Rating, Add	700.21	
	For Class 55 Rating, Add	1,049.09	
	For Class 56 Rating, Add	1,393.40	
40 05 19 00-0230	EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,008.44	873.43
	For Class 52 Rating, Deduct	-515.36	
	For Class 54 Rating, Add	718.64	
	For Class 55 Rating, Add	1,076.53	
	For Class 56 Rating, Add	1,429.73	
40 05 19 00-0231	EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,137.57	877.93
	For Class 52 Rating, Deduct	-528.81	
	For Class 54 Rating, Add	737.07	
	For Class 55 Rating, Add	1,103.97	
	For Class 56 Rating, Add	1,466.06	
40 05 19 00-0232	EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,266.71	882.43
	For Class 52 Rating, Deduct	-542.27	
	For Class 54 Rating, Add	755.50	
	For Class 55 Rating, Add	1,131.41	
	For Class 56 Rating, Add	1,502.39	
40 05 19 00-0233	EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,395.84	886.93
	For Class 52 Rating, Deduct	-555.72	
	For Class 54 Rating, Add	773.93	
	For Class 55 Rating, Add	1,158.85	
	For Class 56 Rating, Add	1,538.72	
40 05 19 00-0234	EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,524.97	891.44
	For Class 52 Rating, Deduct	-569.17	
	For Class 54 Rating, Add	792.35	
	For Class 55 Rating, Add	1,186.29	
	For Class 56 Rating, Add	1,575.05	
40 05 19 00-0235	EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,654.11	895.94
	For Class 52 Rating, Deduct	-582.63	
	For Class 54 Rating, Add	810.78	
	For Class 55 Rating, Add	1,213.73	
	For Class 56 Rating, Add	1,611.38	
40 05 19 00-0236	EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,783.25	900.44
	For Class 52 Rating, Deduct	-596.08	
	For Class 54 Rating, Add	829.21	
	For Class 55 Rating, Add	1,241.17	
	For Class 56 Rating, Add	1,647.70	
40 05 19 00-0237	EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,912.39	904.94
	For Class 52 Rating, Deduct	-609.54	
	For Class 54 Rating, Add	847.64	
	For Class 55 Rating, Add	1,268.61	
	For Class 56 Rating, Add	1,684.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,041.52	909.45
For Class 52 Rating, Deduct	-622.99	
For Class 54 Rating, Add	866.07	
For Class 55 Rating, Add	1,296.05	
For Class 56 Rating, Add	1,720.36	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,170.66	913.95
For Class 52 Rating, Deduct	-636.45	
For Class 54 Rating, Add	884.50	
For Class 55 Rating, Add	1,323.49	
For Class 56 Rating, Add	1,756.69	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,299.79	918.45
For Class 52 Rating, Deduct	-649.90	
For Class 54 Rating, Add	902.93	
For Class 55 Rating, Add	1,350.93	
For Class 56 Rating, Add	1,793.02	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,428.93	922.95
For Class 52 Rating, Deduct	-663.36	
For Class 54 Rating, Add	921.36	
For Class 55 Rating, Add	1,378.37	
For Class 56 Rating, Add	1,829.35	
40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-0002)</small>		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,093.60	864.42
For Class 52 Rating, Deduct	-196.23	
For Class 54 Rating, Add	283.30	
For Class 55 Rating, Add	429.24	
For Class 56 Rating, Add	573.39	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,243.36	868.93
For Class 52 Rating, Deduct	-211.95	
For Class 54 Rating, Add	304.82	
For Class 55 Rating, Add	461.27	
For Class 56 Rating, Add	615.80	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,393.11	873.43
For Class 52 Rating, Deduct	-227.67	
For Class 54 Rating, Add	326.34	
For Class 55 Rating, Add	493.31	
For Class 56 Rating, Add	658.21	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,542.86	877.93
For Class 52 Rating, Deduct	-243.39	
For Class 54 Rating, Add	347.86	
For Class 55 Rating, Add	525.35	
For Class 56 Rating, Add	700.62	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,692.60	882.43
For Class 52 Rating, Deduct	-259.11	
For Class 54 Rating, Add	369.38	
For Class 55 Rating, Add	557.38	
For Class 56 Rating, Add	743.03	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,842.35	886.93
For Class 52 Rating, Deduct	-274.84	
For Class 54 Rating, Add	390.90	
For Class 55 Rating, Add	589.42	
For Class 56 Rating, Add	785.44	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,992.10	891.44
For Class 52 Rating, Deduct	-290.56	
For Class 54 Rating, Add	412.42	
For Class 55 Rating, Add	621.46	
For Class 56 Rating, Add	827.85	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,141.85	895.94
For Class 52 Rating, Deduct	-306.28	
For Class 54 Rating, Add	433.95	
For Class 55 Rating, Add	653.49	
For Class 56 Rating, Add	870.26	
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.61	900.44
For Class 52 Rating, Deduct	-322.00	
For Class 54 Rating, Add	455.47	
For Class 55 Rating, Add	685.53	
For Class 56 Rating, Add	912.67	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,411.36	904.94
For Class 52 Rating, Deduct	-337.73	
For Class 54 Rating, Add	476.99	
For Class 55 Rating, Add	717.57	
For Class 56 Rating, Add	955.08	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,591.11	909.45
For Class 52 Rating, Deduct	-353.45	
For Class 54 Rating, Add	498.51	
For Class 55 Rating, Add	749.61	
For Class 56 Rating, Add	997.49	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,740.86	913.95
For Class 52 Rating, Deduct	-369.17	
For Class 54 Rating, Add	520.03	
For Class 55 Rating, Add	781.64	
For Class 56 Rating, Add	1,039.90	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,890.61	918.45
		For Class 52 Rating, Deduct	-384.89	
		For Class 54 Rating, Add	541.55	
		For Class 55 Rating, Add	813.68	
		For Class 56 Rating, Add	1,082.31	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,040.36	922.95
		For Class 52 Rating, Deduct	-400.61	
		For Class 54 Rating, Add	563.07	
		For Class 55 Rating, Add	845.72	
		For Class 56 Rating, Add	1,124.72	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,190.11	927.45
		For Class 52 Rating, Deduct	-416.34	
		For Class 54 Rating, Add	584.59	
		For Class 55 Rating, Add	877.75	
		For Class 56 Rating, Add	1,167.13	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,339.87	931.96
		For Class 52 Rating, Deduct	-432.06	
		For Class 54 Rating, Add	606.12	
		For Class 55 Rating, Add	909.79	
		For Class 56 Rating, Add	1,209.54	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,489.62	936.46
		For Class 52 Rating, Deduct	-447.78	
		For Class 54 Rating, Add	627.64	
		For Class 55 Rating, Add	941.83	
		For Class 56 Rating, Add	1,251.95	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,639.37	940.96
		For Class 52 Rating, Deduct	-463.50	
		For Class 54 Rating, Add	649.16	
		For Class 55 Rating, Add	973.87	
		For Class 56 Rating, Add	1,294.36	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,789.11	945.46
		For Class 52 Rating, Deduct	-479.22	
		For Class 54 Rating, Add	670.68	
		For Class 55 Rating, Add	1,005.90	
		For Class 56 Rating, Add	1,336.76	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,938.86	949.97
		For Class 52 Rating, Deduct	-494.95	
		For Class 54 Rating, Add	692.20	
		For Class 55 Rating, Add	1,037.94	
		For Class 56 Rating, Add	1,379.17	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,088.61	954.47
		For Class 52 Rating, Deduct	-510.67	
		For Class 54 Rating, Add	713.72	
		For Class 55 Rating, Add	1,069.97	
		For Class 56 Rating, Add	1,421.58	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,238.37	958.97
		For Class 52 Rating, Deduct	-526.39	
		For Class 54 Rating, Add	735.24	
		For Class 55 Rating, Add	1,102.01	
		For Class 56 Rating, Add	1,463.99	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,388.12	963.47
		For Class 52 Rating, Deduct	-542.11	
		For Class 54 Rating, Add	756.76	
		For Class 55 Rating, Add	1,134.05	
		For Class 56 Rating, Add	1,506.40	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,537.87	967.98
		For Class 52 Rating, Deduct	-557.84	
		For Class 54 Rating, Add	778.29	
		For Class 55 Rating, Add	1,166.09	
		For Class 56 Rating, Add	1,548.81	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,687.62	972.48
		For Class 52 Rating, Deduct	-573.56	
		For Class 54 Rating, Add	799.81	
		For Class 55 Rating, Add	1,198.12	
		For Class 56 Rating, Add	1,591.22	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,837.37	976.97
		For Class 52 Rating, Deduct	-589.28	
		For Class 54 Rating, Add	821.33	
		For Class 55 Rating, Add	1,230.16	
		For Class 56 Rating, Add	1,633.63	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,987.12	981.48
		For Class 52 Rating, Deduct	-605.00	
		For Class 54 Rating, Add	842.85	
		For Class 55 Rating, Add	1,262.20	
		For Class 56 Rating, Add	1,676.04	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,136.87	985.98
		For Class 52 Rating, Deduct	-620.73	
		For Class 54 Rating, Add	864.37	
		For Class 55 Rating, Add	1,294.23	
		For Class 56 Rating, Add	1,718.45	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,286.63	990.49
		For Class 52 Rating, Deduct	-636.45	
		For Class 54 Rating, Add	885.89	
		For Class 55 Rating, Add	1,326.27	
		For Class 56 Rating, Add	1,760.86	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,436.38	994.98
For Class 52 Rating, Deduct	-652.17	
For Class 54 Rating, Add	907.41	
For Class 55 Rating, Add	1,358.31	
For Class 56 Rating, Add	1,803.27	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,586.13	999.49
For Class 52 Rating, Deduct	-667.89	
For Class 54 Rating, Add	928.94	
For Class 55 Rating, Add	1,390.35	
For Class 56 Rating, Add	1,845.68	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,735.88	1,003.99
For Class 52 Rating, Deduct	-683.61	
For Class 54 Rating, Add	950.46	
For Class 55 Rating, Add	1,422.38	
For Class 56 Rating, Add	1,888.09	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,885.62	1,008.50
For Class 52 Rating, Deduct	-699.34	
For Class 54 Rating, Add	971.98	
For Class 55 Rating, Add	1,454.42	
For Class 56 Rating, Add	1,930.50	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,035.37	1,013.00
For Class 52 Rating, Deduct	-715.06	
For Class 54 Rating, Add	993.50	
For Class 55 Rating, Add	1,486.45	
For Class 56 Rating, Add	1,972.91	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,185.12	1,017.50
For Class 52 Rating, Deduct	-730.78	
For Class 54 Rating, Add	1,015.02	
For Class 55 Rating, Add	1,518.49	
For Class 56 Rating, Add	2,015.32	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,334.88	1,022.00
For Class 52 Rating, Deduct	-746.50	
For Class 54 Rating, Add	1,036.54	
For Class 55 Rating, Add	1,550.53	
For Class 56 Rating, Add	2,057.73	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,484.63	1,026.50
For Class 52 Rating, Deduct	-762.23	
For Class 54 Rating, Add	1,058.06	
For Class 55 Rating, Add	1,582.57	
For Class 56 Rating, Add	2,100.14	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,634.38	1,031.01
For Class 52 Rating, Deduct	-777.95	
For Class 54 Rating, Add	1,079.58	
For Class 55 Rating, Add	1,614.60	
For Class 56 Rating, Add	2,142.55	
40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,578.89	974.28
For Class 52 Rating, Deduct	-231.30	
For Class 54 Rating, Add	333.12	
For Class 55 Rating, Add	504.33	
For Class 56 Rating, Add	673.44	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,750.63	978.78
For Class 52 Rating, Deduct	-249.44	
For Class 54 Rating, Add	357.94	
For Class 55 Rating, Add	541.27	
For Class 56 Rating, Add	722.34	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,922.37	983.28
For Class 52 Rating, Deduct	-267.58	
For Class 54 Rating, Add	382.76	
For Class 55 Rating, Add	578.21	
For Class 56 Rating, Add	771.24	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,094.10	987.79
For Class 52 Rating, Deduct	-285.72	
For Class 54 Rating, Add	407.58	
For Class 55 Rating, Add	615.15	
For Class 56 Rating, Add	820.13	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,265.84	992.29
For Class 52 Rating, Deduct	-303.86	
For Class 54 Rating, Add	432.40	
For Class 55 Rating, Add	652.09	
For Class 56 Rating, Add	869.03	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,437.58	996.78
For Class 52 Rating, Deduct	-322.00	
For Class 54 Rating, Add	457.22	
For Class 55 Rating, Add	689.03	
For Class 56 Rating, Add	917.92	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.33	1,001.29
For Class 52 Rating, Deduct	-340.14	
For Class 54 Rating, Add	482.04	
For Class 55 Rating, Add	725.98	
For Class 56 Rating, Add	966.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,781.07	1,005.79
<i>For Class 52 Rating, Deduct</i>	-358.29	
<i>For Class 54 Rating, Add</i>	506.86	
<i>For Class 55 Rating, Add</i>	762.92	
<i>For Class 56 Rating, Add</i>	1,015.72	
40 05 19 00-0290 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,952.81	1,010.30
<i>For Class 52 Rating, Deduct</i>	-376.43	
<i>For Class 54 Rating, Add</i>	531.68	
<i>For Class 55 Rating, Add</i>	799.86	
<i>For Class 56 Rating, Add</i>	1,064.61	
40 05 19 00-0291 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,124.56	1,014.79
<i>For Class 52 Rating, Deduct</i>	-394.57	
<i>For Class 54 Rating, Add</i>	556.50	
<i>For Class 55 Rating, Add</i>	836.80	
<i>For Class 56 Rating, Add</i>	1,113.51	
40 05 19 00-0292 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,296.28	1,019.30
<i>For Class 52 Rating, Deduct</i>	-412.71	
<i>For Class 54 Rating, Add</i>	581.32	
<i>For Class 55 Rating, Add</i>	873.74	
<i>For Class 56 Rating, Add</i>	1,162.41	
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,468.02	1,023.80
<i>For Class 52 Rating, Deduct</i>	-430.85	
<i>For Class 54 Rating, Add</i>	606.14	
<i>For Class 55 Rating, Add</i>	910.68	
<i>For Class 56 Rating, Add</i>	1,211.30	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,639.76	1,028.31
<i>For Class 52 Rating, Deduct</i>	-448.99	
<i>For Class 54 Rating, Add</i>	630.96	
<i>For Class 55 Rating, Add</i>	947.62	
<i>For Class 56 Rating, Add</i>	1,260.20	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,811.51	1,032.81
<i>For Class 52 Rating, Deduct</i>	-467.13	
<i>For Class 54 Rating, Add</i>	655.78	
<i>For Class 55 Rating, Add</i>	984.56	
<i>For Class 56 Rating, Add</i>	1,309.10	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,983.25	1,037.31
<i>For Class 52 Rating, Deduct</i>	-485.27	
<i>For Class 54 Rating, Add</i>	680.60	
<i>For Class 55 Rating, Add</i>	1,021.50	
<i>For Class 56 Rating, Add</i>	1,357.99	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,154.99	1,041.81
<i>For Class 52 Rating, Deduct</i>	-503.41	
<i>For Class 54 Rating, Add</i>	705.42	
<i>For Class 55 Rating, Add</i>	1,058.44	
<i>For Class 56 Rating, Add</i>	1,406.89	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,326.73	1,046.31
<i>For Class 52 Rating, Deduct</i>	-521.55	
<i>For Class 54 Rating, Add</i>	730.23	
<i>For Class 55 Rating, Add</i>	1,095.38	
<i>For Class 56 Rating, Add</i>	1,455.78	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,498.46	1,050.82
<i>For Class 52 Rating, Deduct</i>	-539.70	
<i>For Class 54 Rating, Add</i>	755.05	
<i>For Class 55 Rating, Add</i>	1,132.32	
<i>For Class 56 Rating, Add</i>	1,504.68	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,670.20	1,055.31
<i>For Class 52 Rating, Deduct</i>	-557.84	
<i>For Class 54 Rating, Add</i>	779.87	
<i>For Class 55 Rating, Add</i>	1,169.26	
<i>For Class 56 Rating, Add</i>	1,553.58	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,841.94	1,059.82
<i>For Class 52 Rating, Deduct</i>	-575.98	
<i>For Class 54 Rating, Add</i>	804.69	
<i>For Class 55 Rating, Add</i>	1,206.20	
<i>For Class 56 Rating, Add</i>	1,602.48	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,013.69	1,064.32
<i>For Class 52 Rating, Deduct</i>	-594.12	
<i>For Class 54 Rating, Add</i>	829.51	
<i>For Class 55 Rating, Add</i>	1,243.14	
<i>For Class 56 Rating, Add</i>	1,651.37	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,185.43	1,068.83
<i>For Class 52 Rating, Deduct</i>	-612.26	
<i>For Class 54 Rating, Add</i>	854.33	
<i>For Class 55 Rating, Add</i>	1,280.08	
<i>For Class 56 Rating, Add</i>	1,700.27	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,357.16	1,073.32
<i>For Class 52 Rating, Deduct</i>	-630.40	
<i>For Class 54 Rating, Add</i>	879.15	
<i>For Class 55 Rating, Add</i>	1,317.02	
<i>For Class 56 Rating, Add</i>	1,749.16	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,528.91	1,077.83
<i>For Class 52 Rating, Deduct</i>	-648.54	
<i>For Class 54 Rating, Add</i>	903.97	
<i>For Class 55 Rating, Add</i>	1,353.96	
<i>For Class 56 Rating, Add</i>	1,798.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	7,700.64 -666.68 928.79 1,390.90 1,846.96	1,082.33
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,872.38 -684.82 953.61 1,427.85 1,895.85	1,086.84
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,044.13 -702.96 978.43 1,464.79 1,944.75	1,091.34
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,215.87 -721.11 1,003.25 1,501.73 1,993.65	1,095.83
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,387.60 -739.25 1,028.07 1,538.67 2,042.54	1,100.34
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,559.34 -757.39 1,052.89 1,575.61 2,091.44	1,104.84
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,731.09 -775.53 1,077.71 1,612.55 2,140.34	1,109.35
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	8,902.83 -793.67 1,102.53 1,649.49 2,189.23	1,113.84
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,074.56 -811.81 1,127.35 1,686.43 2,238.13	1,118.35
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,246.31 -829.95 1,152.17 1,723.37 2,287.03	1,122.85
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,418.05 -848.09 1,176.99 1,760.31 2,335.92	1,127.36
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,589.78 -866.23 1,201.81 1,797.25 2,384.82	1,131.85
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,761.52 -884.37 1,226.63 1,834.19 2,433.72	1,136.36
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	9,933.27 -902.52 1,251.45 1,871.13 2,482.61	1,140.86
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	4,171.05 -273.48 393.14 594.85 794.07	1,112.04
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	4,367.54 -294.34 421.67 637.31 850.26	1,116.55

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323 EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,564.02	1,121.05
For Class 52 Rating, Deduct	-315.20	
For Class 54 Rating, Add	450.20	
For Class 55 Rating, Add	679.76	
For Class 56 Rating, Add	906.46	
40 05 19 00-0324 EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,760.49	1,125.55
For Class 52 Rating, Deduct	-336.06	
For Class 54 Rating, Add	478.73	
For Class 55 Rating, Add	722.22	
For Class 56 Rating, Add	962.65	
40 05 19 00-0325 EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,956.98	1,130.06
For Class 52 Rating, Deduct	-356.92	
For Class 54 Rating, Add	507.26	
For Class 55 Rating, Add	764.68	
For Class 56 Rating, Add	1,018.85	
40 05 19 00-0326 EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,153.45	1,134.55
For Class 52 Rating, Deduct	-377.79	
For Class 54 Rating, Add	535.79	
For Class 55 Rating, Add	807.13	
For Class 56 Rating, Add	1,075.04	
40 05 19 00-0327 EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,349.92	1,139.06
For Class 52 Rating, Deduct	-398.65	
For Class 54 Rating, Add	564.32	
For Class 55 Rating, Add	849.59	
For Class 56 Rating, Add	1,131.23	
40 05 19 00-0328 EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,546.41	1,143.56
For Class 52 Rating, Deduct	-419.51	
For Class 54 Rating, Add	592.85	
For Class 55 Rating, Add	892.05	
For Class 56 Rating, Add	1,187.43	
40 05 19 00-0329 EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,742.88	1,148.07
For Class 52 Rating, Deduct	-440.37	
For Class 54 Rating, Add	621.38	
For Class 55 Rating, Add	934.50	
For Class 56 Rating, Add	1,243.62	
40 05 19 00-0330 EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,939.36	1,152.56
For Class 52 Rating, Deduct	-461.24	
For Class 54 Rating, Add	649.91	
For Class 55 Rating, Add	976.96	
For Class 56 Rating, Add	1,299.82	
40 05 19 00-0331 EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,135.84	1,157.07
For Class 52 Rating, Deduct	-482.10	
For Class 54 Rating, Add	678.44	
For Class 55 Rating, Add	1,019.42	
For Class 56 Rating, Add	1,356.01	
40 05 19 00-0332 EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,332.32	1,161.57
For Class 52 Rating, Deduct	-502.96	
For Class 54 Rating, Add	706.97	
For Class 55 Rating, Add	1,061.88	
For Class 56 Rating, Add	1,412.20	
40 05 19 00-0333 EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,528.79	1,166.08
For Class 52 Rating, Deduct	-523.82	
For Class 54 Rating, Add	735.50	
For Class 55 Rating, Add	1,104.33	
For Class 56 Rating, Add	1,468.40	
40 05 19 00-0334 EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,725.27	1,170.57
For Class 52 Rating, Deduct	-544.68	
For Class 54 Rating, Add	764.04	
For Class 55 Rating, Add	1,146.79	
For Class 56 Rating, Add	1,524.59	
40 05 19 00-0335 EA 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,921.75	1,175.07
For Class 52 Rating, Deduct	-565.55	
For Class 54 Rating, Add	792.56	
For Class 55 Rating, Add	1,189.25	
For Class 56 Rating, Add	1,580.79	
40 05 19 00-0336 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,118.23	1,179.58
For Class 52 Rating, Deduct	-586.41	
For Class 54 Rating, Add	821.10	
For Class 55 Rating, Add	1,231.70	
For Class 56 Rating, Add	1,636.98	
40 05 19 00-0337 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,314.70	1,184.08
For Class 52 Rating, Deduct	-607.27	
For Class 54 Rating, Add	849.62	
For Class 55 Rating, Add	1,274.16	
For Class 56 Rating, Add	1,693.17	
40 05 19 00-0338 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,511.18	1,188.58
For Class 52 Rating, Deduct	-628.13	
For Class 54 Rating, Add	878.16	
For Class 55 Rating, Add	1,316.62	
For Class 56 Rating, Add	1,749.37	
40 05 19 00-0339 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,707.67	1,193.08
For Class 52 Rating, Deduct	-649.00	
For Class 54 Rating, Add	906.69	
For Class 55 Rating, Add	1,359.08	
For Class 56 Rating, Add	1,805.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340	EA	20"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,904.13	1,197.59
			<i>For Class 52 Rating, Deduct</i>	-669.86	
			<i>For Class 54 Rating, Add</i>	935.22	
			<i>For Class 55 Rating, Add</i>	1,401.53	
			<i>For Class 56 Rating, Add</i>	1,861.76	
40 05 19 00-0341	EA	20"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,100.61	1,202.09
			<i>For Class 52 Rating, Deduct</i>	-690.72	
			<i>For Class 54 Rating, Add</i>	963.75	
			<i>For Class 55 Rating, Add</i>	1,443.99	
			<i>For Class 56 Rating, Add</i>	1,917.95	
40 05 19 00-0342	EA	20"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,297.09	1,206.60
			<i>For Class 52 Rating, Deduct</i>	-711.58	
			<i>For Class 54 Rating, Add</i>	992.28	
			<i>For Class 55 Rating, Add</i>	1,486.45	
			<i>For Class 56 Rating, Add</i>	1,974.15	
40 05 19 00-0343	EA	20"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,493.57	1,211.09
			<i>For Class 52 Rating, Deduct</i>	-732.44	
			<i>For Class 54 Rating, Add</i>	1,020.81	
			<i>For Class 55 Rating, Add</i>	1,528.90	
			<i>For Class 56 Rating, Add</i>	2,030.34	
40 05 19 00-0344	EA	20"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,690.05	1,215.59
			<i>For Class 52 Rating, Deduct</i>	-753.31	
			<i>For Class 54 Rating, Add</i>	1,049.34	
			<i>For Class 55 Rating, Add</i>	1,571.36	
			<i>For Class 56 Rating, Add</i>	2,086.54	
40 05 19 00-0345	EA	20"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,886.53	1,220.10
			<i>For Class 52 Rating, Deduct</i>	-774.17	
			<i>For Class 54 Rating, Add</i>	1,077.87	
			<i>For Class 55 Rating, Add</i>	1,613.82	
			<i>For Class 56 Rating, Add</i>	2,142.73	
40 05 19 00-0346	EA	20"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,083.01	1,224.60
			<i>For Class 52 Rating, Deduct</i>	-795.03	
			<i>For Class 54 Rating, Add</i>	1,106.40	
			<i>For Class 55 Rating, Add</i>	1,656.27	
			<i>For Class 56 Rating, Add</i>	2,198.92	
40 05 19 00-0347	EA	20"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,279.47	1,229.10
			<i>For Class 52 Rating, Deduct</i>	-815.89	
			<i>For Class 54 Rating, Add</i>	1,134.93	
			<i>For Class 55 Rating, Add</i>	1,698.73	
			<i>For Class 56 Rating, Add</i>	2,255.12	
40 05 19 00-0348	EA	20"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,475.95	1,233.60
			<i>For Class 52 Rating, Deduct</i>	-836.75	
			<i>For Class 54 Rating, Add</i>	1,163.46	
			<i>For Class 55 Rating, Add</i>	1,741.19	
			<i>For Class 56 Rating, Add</i>	2,311.31	
40 05 19 00-0349	EA	20"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,672.44	1,238.11
			<i>For Class 52 Rating, Deduct</i>	-857.62	
			<i>For Class 54 Rating, Add</i>	1,191.99	
			<i>For Class 55 Rating, Add</i>	1,783.65	
			<i>For Class 56 Rating, Add</i>	2,367.51	
40 05 19 00-0350	EA	20"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,868.91	1,242.61
			<i>For Class 52 Rating, Deduct</i>	-878.48	
			<i>For Class 54 Rating, Add</i>	1,220.52	
			<i>For Class 55 Rating, Add</i>	1,826.10	
			<i>For Class 56 Rating, Add</i>	2,423.70	
40 05 19 00-0351	EA	20"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,065.39	1,247.11
			<i>For Class 52 Rating, Deduct</i>	-899.34	
			<i>For Class 54 Rating, Add</i>	1,249.05	
			<i>For Class 55 Rating, Add</i>	1,868.56	
			<i>For Class 56 Rating, Add</i>	2,479.89	
40 05 19 00-0352	EA	20"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,261.88	1,251.61
			<i>For Class 52 Rating, Deduct</i>	-920.20	
			<i>For Class 54 Rating, Add</i>	1,277.58	
			<i>For Class 55 Rating, Add</i>	1,911.02	
			<i>For Class 56 Rating, Add</i>	2,536.09	
40 05 19 00-0353	EA	20"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,458.35	1,256.12
			<i>For Class 52 Rating, Deduct</i>	-941.07	
			<i>For Class 54 Rating, Add</i>	1,306.11	
			<i>For Class 55 Rating, Add</i>	1,953.47	
			<i>For Class 56 Rating, Add</i>	2,592.28	
40 05 19 00-0354	EA	20"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,654.83	1,260.62
			<i>For Class 52 Rating, Deduct</i>	-961.93	
			<i>For Class 54 Rating, Add</i>	1,334.64	
			<i>For Class 55 Rating, Add</i>	1,995.93	
			<i>For Class 56 Rating, Add</i>	2,648.48	
40 05 19 00-0355	EA	20"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,851.29	1,265.12
			<i>For Class 52 Rating, Deduct</i>	-982.79	
			<i>For Class 54 Rating, Add</i>	1,363.17	
			<i>For Class 55 Rating, Add</i>	2,038.39	
			<i>For Class 56 Rating, Add</i>	2,704.67	
40 05 19 00-0356	EA	20"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,047.78	1,269.62
			<i>For Class 52 Rating, Deduct</i>	-1,003.65	
			<i>For Class 54 Rating, Add</i>	1,391.70	
			<i>For Class 55 Rating, Add</i>	2,080.84	
			<i>For Class 56 Rating, Add</i>	2,760.86	

40	Process Interconnections
40 05	Common Work Results For Process Interconnections
40 05 19	Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357 EA 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,244.26	1,274.12
For Class 52 Rating, Deduct	-1,024.51	
For Class 54 Rating, Add	1,420.23	
For Class 55 Rating, Add	2,123.30	
For Class 56 Rating, Add	2,817.06	
40 05 19 00-0358 EA 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,440.73	1,278.63
For Class 52 Rating, Deduct	-1,045.38	
For Class 54 Rating, Add	1,448.76	
For Class 55 Rating, Add	2,165.76	
For Class 56 Rating, Add	2,873.25	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0360 EA 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,095.10	1,314.64
For Class 52 Rating, Deduct	-341.35	
For Class 54 Rating, Add	489.38	
For Class 55 Rating, Add	739.82	
For Class 56 Rating, Add	987.15	
40 05 19 00-0361 EA 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,336.93	1,319.15
For Class 52 Rating, Deduct	-367.20	
For Class 54 Rating, Add	524.72	
For Class 55 Rating, Add	792.39	
For Class 56 Rating, Add	1,056.73	
40 05 19 00-0362 EA 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,578.76	1,323.64
For Class 52 Rating, Deduct	-393.06	
For Class 54 Rating, Add	560.05	
For Class 55 Rating, Add	844.96	
For Class 56 Rating, Add	1,126.30	
40 05 19 00-0363 EA 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,820.59	1,328.15
For Class 52 Rating, Deduct	-418.91	
For Class 54 Rating, Add	595.38	
For Class 55 Rating, Add	897.53	
For Class 56 Rating, Add	1,195.88	
40 05 19 00-0364 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,062.42	1,332.65
For Class 52 Rating, Deduct	-444.76	
For Class 54 Rating, Add	630.72	
For Class 55 Rating, Add	950.10	
For Class 56 Rating, Add	1,265.45	
40 05 19 00-0365 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,304.25	1,337.16
For Class 52 Rating, Deduct	-470.61	
For Class 54 Rating, Add	666.05	
For Class 55 Rating, Add	1,002.68	
For Class 56 Rating, Add	1,335.02	
40 05 19 00-0366 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,546.08	1,341.66
For Class 52 Rating, Deduct	-496.46	
For Class 54 Rating, Add	701.38	
For Class 55 Rating, Add	1,055.25	
For Class 56 Rating, Add	1,404.60	
40 05 19 00-0367 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,787.92	1,346.16
For Class 52 Rating, Deduct	-522.31	
For Class 54 Rating, Add	736.72	
For Class 55 Rating, Add	1,107.82	
For Class 56 Rating, Add	1,474.17	
40 05 19 00-0368 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,029.74	1,350.66
For Class 52 Rating, Deduct	-548.16	
For Class 54 Rating, Add	772.05	
For Class 55 Rating, Add	1,160.39	
For Class 56 Rating, Add	1,543.74	
40 05 19 00-0369 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,271.57	1,355.17
For Class 52 Rating, Deduct	-574.01	
For Class 54 Rating, Add	807.38	
For Class 55 Rating, Add	1,212.96	
For Class 56 Rating, Add	1,613.31	
40 05 19 00-0370 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,513.40	1,359.67
For Class 52 Rating, Deduct	-599.86	
For Class 54 Rating, Add	842.72	
For Class 55 Rating, Add	1,265.53	
For Class 56 Rating, Add	1,682.89	
40 05 19 00-0371 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,755.23	1,364.16
For Class 52 Rating, Deduct	-625.71	
For Class 54 Rating, Add	878.05	
For Class 55 Rating, Add	1,318.10	
For Class 56 Rating, Add	1,752.46	
40 05 19 00-0372 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,997.06	1,368.67
For Class 52 Rating, Deduct	-651.57	
For Class 54 Rating, Add	913.38	
For Class 55 Rating, Add	1,370.67	
For Class 56 Rating, Add	1,822.03	
40 05 19 00-0373 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,238.90	1,373.17
For Class 52 Rating, Deduct	-677.42	
For Class 54 Rating, Add	948.72	
For Class 55 Rating, Add	1,423.24	
For Class 56 Rating, Add	1,891.61	



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

40

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,480.73	1,377.68
For Class 52 Rating, Deduct	-703.27	
For Class 54 Rating, Add	984.05	
For Class 55 Rating, Add	1,475.81	
For Class 56 Rating, Add	1,961.18	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,722.56	1,382.17
For Class 52 Rating, Deduct	-729.12	
For Class 54 Rating, Add	1,019.38	
For Class 55 Rating, Add	1,528.38	
For Class 56 Rating, Add	2,030.75	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,964.38	1,386.68
For Class 52 Rating, Deduct	-754.97	
For Class 54 Rating, Add	1,054.71	
For Class 55 Rating, Add	1,580.95	
For Class 56 Rating, Add	2,100.33	
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,206.21	1,391.18
For Class 52 Rating, Deduct	-780.82	
For Class 54 Rating, Add	1,090.05	
For Class 55 Rating, Add	1,633.52	
For Class 56 Rating, Add	2,169.90	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,448.04	1,395.69
For Class 52 Rating, Deduct	-806.67	
For Class 54 Rating, Add	1,125.38	
For Class 55 Rating, Add	1,686.09	
For Class 56 Rating, Add	2,239.47	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,689.87	1,400.19
For Class 52 Rating, Deduct	-832.52	
For Class 54 Rating, Add	1,160.71	
For Class 55 Rating, Add	1,738.66	
For Class 56 Rating, Add	2,309.05	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,931.71	1,404.69
For Class 52 Rating, Deduct	-858.37	
For Class 54 Rating, Add	1,196.05	
For Class 55 Rating, Add	1,791.24	
For Class 56 Rating, Add	2,378.62	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,173.54	1,409.19
For Class 52 Rating, Deduct	-884.22	
For Class 54 Rating, Add	1,231.38	
For Class 55 Rating, Add	1,843.81	
For Class 56 Rating, Add	2,448.19	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,415.37	1,413.69
For Class 52 Rating, Deduct	-910.08	
For Class 54 Rating, Add	1,266.72	
For Class 55 Rating, Add	1,896.38	
For Class 56 Rating, Add	2,517.77	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,657.20	1,418.20
For Class 52 Rating, Deduct	-935.93	
For Class 54 Rating, Add	1,302.05	
For Class 55 Rating, Add	1,948.95	
For Class 56 Rating, Add	2,587.34	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,899.02	1,422.69
For Class 52 Rating, Deduct	-961.78	
For Class 54 Rating, Add	1,337.38	
For Class 55 Rating, Add	2,001.52	
For Class 56 Rating, Add	2,656.91	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,140.85	1,427.20
For Class 52 Rating, Deduct	-987.63	
For Class 54 Rating, Add	1,372.71	
For Class 55 Rating, Add	2,054.09	
For Class 56 Rating, Add	2,726.48	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,382.68	1,431.70
For Class 52 Rating, Deduct	-1,013.48	
For Class 54 Rating, Add	1,408.05	
For Class 55 Rating, Add	2,106.66	
For Class 56 Rating, Add	2,796.06	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,624.52	1,436.21
For Class 52 Rating, Deduct	-1,039.33	
For Class 54 Rating, Add	1,443.38	
For Class 55 Rating, Add	2,159.23	
For Class 56 Rating, Add	2,865.63	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,866.35	1,440.70
For Class 52 Rating, Deduct	-1,065.18	
For Class 54 Rating, Add	1,478.71	
For Class 55 Rating, Add	2,211.80	
For Class 56 Rating, Add	2,935.20	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,224.14	1,521.74
For Class 52 Rating, Deduct	-1,091.03	
For Class 54 Rating, Add	1,515.44	
For Class 55 Rating, Add	2,267.15	
For Class 56 Rating, Add	3,008.95	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,465.97	1,526.25
For Class 52 Rating, Deduct	-1,116.88	
For Class 54 Rating, Add	1,550.77	
For Class 55 Rating, Add	2,319.73	
For Class 56 Rating, Add	3,078.53	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA		24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,707.80	1,530.75
			<i>For Class 52 Rating, Deduct</i>	-1,142.73	
			<i>For Class 54 Rating, Add</i>	1,586.10	
			<i>For Class 55 Rating, Add</i>	2,372.29	
			<i>For Class 56 Rating, Add</i>	3,148.10	
40 05 19 00-0392	EA		24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,949.63	1,535.26
			<i>For Class 52 Rating, Deduct</i>	-1,168.58	
			<i>For Class 54 Rating, Add</i>	1,621.44	
			<i>For Class 55 Rating, Add</i>	2,424.87	
			<i>For Class 56 Rating, Add</i>	3,217.67	
40 05 19 00-0393	EA		24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,191.46	1,539.75
			<i>For Class 52 Rating, Deduct</i>	-1,194.44	
			<i>For Class 54 Rating, Add</i>	1,656.77	
			<i>For Class 55 Rating, Add</i>	2,477.44	
			<i>For Class 56 Rating, Add</i>	3,287.24	
40 05 19 00-0394	EA		24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,433.30	1,544.26
			<i>For Class 52 Rating, Deduct</i>	-1,220.29	
			<i>For Class 54 Rating, Add</i>	1,692.10	
			<i>For Class 55 Rating, Add</i>	2,530.01	
			<i>For Class 56 Rating, Add</i>	3,356.82	
40 05 19 00-0395	EA		24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,675.12	1,548.76
			<i>For Class 52 Rating, Deduct</i>	-1,246.14	
			<i>For Class 54 Rating, Add</i>	1,727.44	
			<i>For Class 55 Rating, Add</i>	2,582.58	
			<i>For Class 56 Rating, Add</i>	3,426.39	
40 05 19 00-0396	EA		24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,916.95	1,553.27
			<i>For Class 52 Rating, Deduct</i>	-1,271.99	
			<i>For Class 54 Rating, Add</i>	1,762.77	
			<i>For Class 55 Rating, Add</i>	2,635.15	
			<i>For Class 56 Rating, Add</i>	3,495.96	
40 05 19 00-0397	EA		24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,158.79	1,557.76
			<i>For Class 52 Rating, Deduct</i>	-1,297.84	
			<i>For Class 54 Rating, Add</i>	1,798.10	
			<i>For Class 55 Rating, Add</i>	2,687.72	
			<i>For Class 56 Rating, Add</i>	3,565.54	

40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)

40 05 19 00-0399	EA		30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,744.28	1,854.91
			<i>For Class 52 Rating, Deduct</i>	-542.72	
			<i>For Class 54 Rating, Add</i>	773.80	
			<i>For Class 55 Rating, Add</i>	1,167.69	
			<i>For Class 56 Rating, Add</i>	1,556.65	
40 05 19 00-0400	EA		30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,090.56	1,859.41
			<i>For Class 52 Rating, Deduct</i>	-580.06	
			<i>For Class 54 Rating, Add</i>	824.80	
			<i>For Class 55 Rating, Add</i>	1,243.55	
			<i>For Class 56 Rating, Add</i>	1,657.04	
40 05 19 00-0401	EA		30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,436.84	1,863.92
			<i>For Class 52 Rating, Deduct</i>	-617.40	
			<i>For Class 54 Rating, Add</i>	875.80	
			<i>For Class 55 Rating, Add</i>	1,319.42	
			<i>For Class 56 Rating, Add</i>	1,757.42	
40 05 19 00-0402	EA		30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,783.11	1,868.41
			<i>For Class 52 Rating, Deduct</i>	-654.74	
			<i>For Class 54 Rating, Add</i>	926.80	
			<i>For Class 55 Rating, Add</i>	1,395.28	
			<i>For Class 56 Rating, Add</i>	1,857.81	
40 05 19 00-0403	EA		30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,129.39	1,872.92
			<i>For Class 52 Rating, Deduct</i>	-692.08	
			<i>For Class 54 Rating, Add</i>	977.80	
			<i>For Class 55 Rating, Add</i>	1,471.14	
			<i>For Class 56 Rating, Add</i>	1,958.19	
40 05 19 00-0404	EA		30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,475.66	1,877.42
			<i>For Class 52 Rating, Deduct</i>	-729.42	
			<i>For Class 54 Rating, Add</i>	1,028.80	
			<i>For Class 55 Rating, Add</i>	1,547.00	
			<i>For Class 56 Rating, Add</i>	2,058.58	
40 05 19 00-0405	EA		30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,821.95	1,881.93
			<i>For Class 52 Rating, Deduct</i>	-766.76	
			<i>For Class 54 Rating, Add</i>	1,079.80	
			<i>For Class 55 Rating, Add</i>	1,622.87	
			<i>For Class 56 Rating, Add</i>	2,158.96	
40 05 19 00-0406	EA		30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,168.23	1,886.42
			<i>For Class 52 Rating, Deduct</i>	-804.10	
			<i>For Class 54 Rating, Add</i>	1,130.80	
			<i>For Class 55 Rating, Add</i>	1,698.73	
			<i>For Class 56 Rating, Add</i>	2,259.35	
40 05 19 00-0407	EA		30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,514.51	1,890.93
			<i>For Class 52 Rating, Deduct</i>	-841.44	
			<i>For Class 54 Rating, Add</i>	1,181.80	
			<i>For Class 55 Rating, Add</i>	1,774.59	
			<i>For Class 56 Rating, Add</i>	2,359.74	



	Process Interconnections 40
Common Work Results For Process Interconnections 40 05	
Ductile Iron Process Pipe 40 05 19	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,860.79	1,895.43
		For Class 52 Rating, Deduct	-878.78	
		For Class 54 Rating, Add	1,232.80	
		For Class 55 Rating, Add	1,850.45	
		For Class 56 Rating, Add	2,460.12	
40 05 19 00-0409	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,207.06	1,899.93
		For Class 52 Rating, Deduct	-916.12	
		For Class 54 Rating, Add	1,283.80	
		For Class 55 Rating, Add	1,926.32	
		For Class 56 Rating, Add	2,560.50	
40 05 19 00-0410	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,553.34	1,904.43
		For Class 52 Rating, Deduct	-953.46	
		For Class 54 Rating, Add	1,334.80	
		For Class 55 Rating, Add	2,002.18	
		For Class 56 Rating, Add	2,660.89	
40 05 19 00-0411	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,899.61	1,908.93
		For Class 52 Rating, Deduct	-990.80	
		For Class 54 Rating, Add	1,385.80	
		For Class 55 Rating, Add	2,078.04	
		For Class 56 Rating, Add	2,761.27	
40 05 19 00-0412	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,245.90	1,913.44
		For Class 52 Rating, Deduct	-1,028.14	
		For Class 54 Rating, Add	1,436.80	
		For Class 55 Rating, Add	2,153.90	
		For Class 56 Rating, Add	2,861.66	
40 05 19 00-0413	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,592.18	1,917.94
		For Class 52 Rating, Deduct	-1,065.48	
		For Class 54 Rating, Add	1,487.80	
		For Class 55 Rating, Add	2,229.77	
		For Class 56 Rating, Add	2,962.05	
40 05 19 00-0414	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,938.45	1,922.44
		For Class 52 Rating, Deduct	-1,102.82	
		For Class 54 Rating, Add	1,538.80	
		For Class 55 Rating, Add	2,305.63	
		For Class 56 Rating, Add	3,062.43	
40 05 19 00-0415	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,284.74	1,926.94
		For Class 52 Rating, Deduct	-1,140.16	
		For Class 54 Rating, Add	1,589.80	
		For Class 55 Rating, Add	2,381.49	
		For Class 56 Rating, Add	3,162.82	
40 05 19 00-0416	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,631.01	1,931.45
		For Class 52 Rating, Deduct	-1,177.50	
		For Class 54 Rating, Add	1,640.80	
		For Class 55 Rating, Add	2,457.36	
		For Class 56 Rating, Add	3,263.20	
40 05 19 00-0417	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,977.29	1,935.95
		For Class 52 Rating, Deduct	-1,214.84	
		For Class 54 Rating, Add	1,691.81	
		For Class 55 Rating, Add	2,533.22	
		For Class 56 Rating, Add	3,363.59	
40 05 19 00-0418	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,323.56	1,940.46
		For Class 52 Rating, Deduct	-1,252.18	
		For Class 54 Rating, Add	1,742.80	
		For Class 55 Rating, Add	2,609.08	
		For Class 56 Rating, Add	3,463.97	
40 05 19 00-0419	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,669.85	1,944.95
		For Class 52 Rating, Deduct	-1,289.52	
		For Class 54 Rating, Add	1,793.81	
		For Class 55 Rating, Add	2,684.94	
		For Class 56 Rating, Add	3,564.36	
40 05 19 00-0420	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,016.13	1,949.45
		For Class 52 Rating, Deduct	-1,326.87	
		For Class 54 Rating, Add	1,844.81	
		For Class 55 Rating, Add	2,760.81	
		For Class 56 Rating, Add	3,664.74	
40 05 19 00-0421	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,362.40	1,953.96
		For Class 52 Rating, Deduct	-1,364.20	
		For Class 54 Rating, Add	1,895.81	
		For Class 55 Rating, Add	2,836.67	
		For Class 56 Rating, Add	3,765.13	
40 05 19 00-0422	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,708.69	1,958.46
		For Class 52 Rating, Deduct	-1,401.55	
		For Class 54 Rating, Add	1,946.81	
		For Class 55 Rating, Add	2,912.53	
		For Class 56 Rating, Add	3,865.51	
40 05 19 00-0423	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,053.59	1,962.96
		For Class 52 Rating, Deduct	-1,438.73	
		For Class 54 Rating, Add	1,997.60	
		For Class 55 Rating, Add	2,988.09	
		For Class 56 Rating, Add	3,965.49	
40 05 19 00-0424	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,401.23	1,967.46
		For Class 52 Rating, Deduct	-1,476.23	
		For Class 54 Rating, Add	2,048.81	
		For Class 55 Rating, Add	3,064.26	
		For Class 56 Rating, Add	4,066.28	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA		30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	16,747.52 -1,513.57 2,099.81 3,140.12 4,166.67	1,971.97
40 05 19 00-0426	EA		30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	17,093.80 -1,550.91 2,150.81 3,215.98 4,267.06	1,976.47
40 05 19 00-0427	EA		30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	17,440.08 -1,588.25 2,201.81 3,291.85 4,367.44	1,980.97
40 05 19 00-0428	EA		30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	17,786.35 -1,625.59 2,252.81 3,367.71 4,467.83	1,985.47
40 05 19 00-0429	EA		30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	18,132.64 -1,662.93 2,303.81 3,443.57 4,568.21	1,989.98
40 05 19 00-0430	EA		30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	18,478.92 -1,700.27 2,354.81 3,519.43 4,668.60	1,994.48
40 05 19 00-0431	EA		30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	18,825.18 -1,737.61 2,405.81 3,595.29 4,768.98	1,998.98
40 05 19 00-0432	EA		30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	19,171.47 -1,774.95 2,456.81 3,671.16 4,869.37	2,003.48
40 05 19 00-0433	EA		30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	19,517.75 -1,812.29 2,507.81 3,747.02 4,969.75	2,007.98
40 05 19 00-0434	EA		30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	19,864.03 -1,849.63 2,558.81 3,822.88 5,070.14	2,012.49
40 05 19 00-0435	EA		30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	20,210.30 -1,886.97 2,609.81 3,898.74 5,170.52	2,016.99
40 05 19 00-0436	EA		30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	20,556.59 -1,924.31 2,660.81 3,974.61 5,270.91	2,021.49
40 05 19 00-0437			36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438	EA		36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	10,620.71 -776.59 1,101.71 1,659.81 2,210.85	2,350.15
40 05 19 00-0439	EA		36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	11,089.30 -827.38 1,171.06 1,762.95 2,347.32	2,354.65
40 05 19 00-0440	EA		36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	11,557.90 -878.18 1,240.41 1,866.09 2,483.79	2,359.16
40 05 19 00-0441	EA		36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	12,026.50 -928.97 1,309.76 1,969.23 2,620.26	2,363.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,495.09 -979.77 1,379.10 2,072.37 2,756.73	2,368.16
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,963.69 -1,030.56 1,448.45 2,175.51 2,893.20	2,372.66
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	13,432.28 -1,081.36 1,517.80 2,278.65 3,029.66	2,377.17
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	13,900.86 -1,132.15 1,587.14 2,381.78 3,166.13	2,381.67
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,369.46 -1,182.95 1,656.49 2,484.92 3,302.60	2,386.16
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,838.06 -1,233.74 1,725.84 2,588.06 3,439.07	2,390.67
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	15,306.65 -1,284.54 1,795.19 2,691.20 3,575.54	2,395.17
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	15,775.24 -1,335.33 1,864.54 2,794.34 3,712.01	2,399.68
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	16,243.84 -1,386.13 1,933.88 2,897.48 3,848.47	2,404.18
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	16,712.43 -1,436.92 2,003.23 3,000.62 3,984.94	2,408.68
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	17,181.01 -1,487.71 2,072.58 3,103.76 4,121.41	2,413.18
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	17,649.61 -1,538.51 2,141.93 3,206.89 4,257.88	2,417.69
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	18,118.21 -1,589.31 2,211.27 3,310.03 4,394.35	2,422.19
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	18,586.80 -1,640.10 2,280.62 3,413.17 4,530.81	2,426.69
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,055.39 -1,690.89 2,349.97 3,516.31 4,667.28	2,431.19
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,523.99 -1,741.69 2,419.32 3,619.45 4,803.75	2,435.69
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,992.58 -1,792.48 2,488.66 3,722.59 4,940.22	2,440.20

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA		36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,461.16	2,444.69
			<i>For Class 52 Rating, Deduct</i>	-1,843.28	
			<i>For Class 54 Rating, Add</i>	2,558.01	
			<i>For Class 55 Rating, Add</i>	3,825.73	
			<i>For Class 56 Rating, Add</i>	5,076.69	
40 05 19 00-0460	EA		36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,929.77	2,449.20
			<i>For Class 52 Rating, Deduct</i>	-1,894.07	
			<i>For Class 54 Rating, Add</i>	2,627.36	
			<i>For Class 55 Rating, Add</i>	3,928.87	
			<i>For Class 56 Rating, Add</i>	5,213.16	
40 05 19 00-0461	EA		36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,398.36	2,453.70
			<i>For Class 52 Rating, Deduct</i>	-1,944.87	
			<i>For Class 54 Rating, Add</i>	2,696.71	
			<i>For Class 55 Rating, Add</i>	4,032.01	
			<i>For Class 56 Rating, Add</i>	5,349.62	
40 05 19 00-0462	EA		36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,866.95	2,458.21
			<i>For Class 52 Rating, Deduct</i>	-1,995.66	
			<i>For Class 54 Rating, Add</i>	2,766.05	
			<i>For Class 55 Rating, Add</i>	4,135.14	
			<i>For Class 56 Rating, Add</i>	5,486.09	
40 05 19 00-0463	EA		36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,335.55	2,462.71
			<i>For Class 52 Rating, Deduct</i>	-2,046.46	
			<i>For Class 54 Rating, Add</i>	2,835.40	
			<i>For Class 55 Rating, Add</i>	4,238.28	
			<i>For Class 56 Rating, Add</i>	5,622.56	
40 05 19 00-0464	EA		36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,804.14	2,467.21
			<i>For Class 52 Rating, Deduct</i>	-2,097.25	
			<i>For Class 54 Rating, Add</i>	2,904.75	
			<i>For Class 55 Rating, Add</i>	4,341.42	
			<i>For Class 56 Rating, Add</i>	5,759.03	
40 05 19 00-0465	EA		36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,272.73	2,471.71
			<i>For Class 52 Rating, Deduct</i>	-2,148.05	
			<i>For Class 54 Rating, Add</i>	2,974.10	
			<i>For Class 55 Rating, Add</i>	4,444.56	
			<i>For Class 56 Rating, Add</i>	5,895.50	
40 05 19 00-0466	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,741.31	2,476.22
			<i>For Class 52 Rating, Deduct</i>	-2,198.84	
			<i>For Class 54 Rating, Add</i>	3,043.44	
			<i>For Class 55 Rating, Add</i>	4,547.70	
			<i>For Class 56 Rating, Add</i>	6,031.96	
40 05 19 00-0467	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,209.92	2,480.72
			<i>For Class 52 Rating, Deduct</i>	-2,249.64	
			<i>For Class 54 Rating, Add</i>	3,112.79	
			<i>For Class 55 Rating, Add</i>	4,650.84	
			<i>For Class 56 Rating, Add</i>	6,168.43	
40 05 19 00-0468	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,678.51	2,485.21
			<i>For Class 52 Rating, Deduct</i>	-2,300.43	
			<i>For Class 54 Rating, Add</i>	3,182.14	
			<i>For Class 55 Rating, Add</i>	4,753.98	
			<i>For Class 56 Rating, Add</i>	6,304.90	
40 05 19 00-0469	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,147.10	2,489.72
			<i>For Class 52 Rating, Deduct</i>	-2,351.23	
			<i>For Class 54 Rating, Add</i>	3,251.49	
			<i>For Class 55 Rating, Add</i>	4,857.12	
			<i>For Class 56 Rating, Add</i>	6,441.37	
40 05 19 00-0470	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,615.70	2,494.22
			<i>For Class 52 Rating, Deduct</i>	-2,402.02	
			<i>For Class 54 Rating, Add</i>	3,320.84	
			<i>For Class 55 Rating, Add</i>	4,960.25	
			<i>For Class 56 Rating, Add</i>	6,577.84	
40 05 19 00-0471	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,084.29	2,498.73
			<i>For Class 52 Rating, Deduct</i>	-2,452.82	
			<i>For Class 54 Rating, Add</i>	3,390.18	
			<i>For Class 55 Rating, Add</i>	5,063.39	
			<i>For Class 56 Rating, Add</i>	6,714.30	
40 05 19 00-0472	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,552.88	2,503.22
			<i>For Class 52 Rating, Deduct</i>	-2,503.61	
			<i>For Class 54 Rating, Add</i>	3,459.53	
			<i>For Class 55 Rating, Add</i>	5,166.53	
			<i>For Class 56 Rating, Add</i>	6,850.77	
40 05 19 00-0473	EA		36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,021.46	2,507.73
			<i>For Class 52 Rating, Deduct</i>	-2,554.41	
			<i>For Class 54 Rating, Add</i>	3,528.88	
			<i>For Class 55 Rating, Add</i>	5,269.67	
			<i>For Class 56 Rating, Add</i>	6,987.24	
40 05 19 00-0474	EA		36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,490.07	2,512.23
			<i>For Class 52 Rating, Deduct</i>	-2,605.20	
			<i>For Class 54 Rating, Add</i>	3,598.23	
			<i>For Class 55 Rating, Add</i>	5,372.81	
			<i>For Class 56 Rating, Add</i>	7,123.71	
40 05 19 00-0475	EA		36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,958.66	2,516.74
			<i>For Class 52 Rating, Deduct</i>	-2,656.00	
			<i>For Class 54 Rating, Add</i>	3,667.57	
			<i>For Class 55 Rating, Add</i>	5,475.95	
			<i>For Class 56 Rating, Add</i>	7,260.18	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR	CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476	42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>			
40 05 19 00-0477	EA 42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		13,906.78	2,962.46
	<i>For Class 52 Rating, Deduct</i>		-1,036.00	
	<i>For Class 54 Rating, Add</i>		1,466.60	
	<i>For Class 55 Rating, Add</i>		2,207.99	
	<i>For Class 56 Rating, Add</i>		2,939.96	
40 05 19 00-0478	EA 42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		14,603.50	2,966.95
	<i>For Class 52 Rating, Deduct</i>		-1,111.89	
	<i>For Class 54 Rating, Add</i>		1,570.16	
	<i>For Class 55 Rating, Add</i>		2,362.00	
	<i>For Class 56 Rating, Add</i>		3,143.73	
40 05 19 00-0479	EA 42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		15,292.00	2,971.45
	<i>For Class 52 Rating, Deduct</i>		-1,186.88	
	<i>For Class 54 Rating, Add</i>		1,672.50	
	<i>For Class 55 Rating, Add</i>		2,514.18	
	<i>For Class 56 Rating, Add</i>		3,345.07	
40 05 19 00-0480	EA 42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		15,987.35	2,975.96
	<i>For Class 52 Rating, Deduct</i>		-1,262.62	
	<i>For Class 54 Rating, Add</i>		1,775.86	
	<i>For Class 55 Rating, Add</i>		2,667.88	
	<i>For Class 56 Rating, Add</i>		3,548.43	
40 05 19 00-0481	EA 42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		16,675.83	2,980.46
	<i>For Class 52 Rating, Deduct</i>		-1,337.60	
	<i>For Class 54 Rating, Add</i>		1,878.19	
	<i>For Class 55 Rating, Add</i>		2,820.06	
	<i>For Class 56 Rating, Add</i>		3,749.76	
40 05 19 00-0482	EA 42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		17,372.57	2,984.96
	<i>For Class 52 Rating, Deduct</i>		-1,413.49	
	<i>For Class 54 Rating, Add</i>		1,981.76	
	<i>For Class 55 Rating, Add</i>		2,974.07	
	<i>For Class 56 Rating, Add</i>		3,953.53	
40 05 19 00-0483	EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		18,059.67	2,989.46
	<i>For Class 52 Rating, Deduct</i>		-1,488.32	
	<i>For Class 54 Rating, Add</i>		2,083.88	
	<i>For Class 55 Rating, Add</i>		3,125.94	
	<i>For Class 56 Rating, Add</i>		4,154.46	
40 05 19 00-0484	EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		18,756.40	2,993.97
	<i>For Class 52 Rating, Deduct</i>		-1,564.21	
	<i>For Class 54 Rating, Add</i>		2,187.45	
	<i>For Class 55 Rating, Add</i>		3,279.95	
	<i>For Class 56 Rating, Add</i>		4,358.23	
40 05 19 00-0485	EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		19,444.88	2,998.47
	<i>For Class 52 Rating, Deduct</i>		-1,639.19	
	<i>For Class 54 Rating, Add</i>		2,289.78	
	<i>For Class 55 Rating, Add</i>		3,432.13	
	<i>For Class 56 Rating, Add</i>		4,559.57	
40 05 19 00-0486	EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		20,140.25	3,002.98
	<i>For Class 52 Rating, Deduct</i>		-1,714.93	
	<i>For Class 54 Rating, Add</i>		2,393.14	
	<i>For Class 55 Rating, Add</i>		3,585.83	
	<i>For Class 56 Rating, Add</i>		4,762.93	
40 05 19 00-0487	EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		20,828.73	3,007.47
	<i>For Class 52 Rating, Deduct</i>		-1,789.91	
	<i>For Class 54 Rating, Add</i>		2,495.47	
	<i>For Class 55 Rating, Add</i>		3,738.01	
	<i>For Class 56 Rating, Add</i>		4,964.27	
40 05 19 00-0488	EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		21,524.08	3,011.98
	<i>For Class 52 Rating, Deduct</i>		-1,865.65	
	<i>For Class 54 Rating, Add</i>		2,598.84	
	<i>For Class 55 Rating, Add</i>		3,891.71	
	<i>For Class 56 Rating, Add</i>		5,167.63	
40 05 19 00-0489	EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		22,212.58	3,016.48
	<i>For Class 52 Rating, Deduct</i>		-1,940.64	
	<i>For Class 54 Rating, Add</i>		2,701.17	
	<i>For Class 55 Rating, Add</i>		4,043.89	
	<i>For Class 56 Rating, Add</i>		5,368.97	
40 05 19 00-0490	EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		22,902.42	3,020.98
	<i>For Class 52 Rating, Deduct</i>		-2,015.77	
	<i>For Class 54 Rating, Add</i>		2,803.70	
	<i>For Class 55 Rating, Add</i>		4,196.37	
	<i>For Class 56 Rating, Add</i>		5,570.71	
40 05 19 00-0491	EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		23,596.40	3,025.48
	<i>For Class 52 Rating, Deduct</i>		-2,091.36	
	<i>For Class 54 Rating, Add</i>		2,906.86	
	<i>For Class 55 Rating, Add</i>		4,349.77	
	<i>For Class 56 Rating, Add</i>		5,773.67	
40 05 19 00-0492	EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....		24,284.89	3,029.98
	<i>For Class 52 Rating, Deduct</i>		-2,166.34	
	<i>For Class 54 Rating, Add</i>		3,009.19	
	<i>For Class 55 Rating, Add</i>		4,501.95	
	<i>For Class 56 Rating, Add</i>		5,975.00	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,981.62	3,034.49
			<i>For Class 52 Rating, Deduct</i>	-2,242.23	
			<i>For Class 54 Rating, Add</i>	3,112.76	
			<i>For Class 55 Rating, Add</i>	4,655.96	
			<i>For Class 56 Rating, Add</i>	6,178.77	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,670.11	3,038.99
			<i>For Class 52 Rating, Deduct</i>	-2,317.21	
			<i>For Class 54 Rating, Add</i>	3,215.09	
			<i>For Class 55 Rating, Add</i>	4,808.13	
			<i>For Class 56 Rating, Add</i>	6,380.11	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,365.46	3,043.49
			<i>For Class 52 Rating, Deduct</i>	-2,392.95	
			<i>For Class 54 Rating, Add</i>	3,318.45	
			<i>For Class 55 Rating, Add</i>	4,961.84	
			<i>For Class 56 Rating, Add</i>	6,583.47	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,053.95	3,047.99
			<i>For Class 52 Rating, Deduct</i>	-2,467.93	
			<i>For Class 54 Rating, Add</i>	3,420.78	
			<i>For Class 55 Rating, Add</i>	5,114.01	
			<i>For Class 56 Rating, Add</i>	6,784.81	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,750.67	3,052.50
			<i>For Class 52 Rating, Deduct</i>	-2,543.82	
			<i>For Class 54 Rating, Add</i>	3,524.35	
			<i>For Class 55 Rating, Add</i>	5,268.03	
			<i>For Class 56 Rating, Add</i>	6,988.58	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,439.16	3,057.00
			<i>For Class 52 Rating, Deduct</i>	-2,618.81	
			<i>For Class 54 Rating, Add</i>	3,626.68	
			<i>For Class 55 Rating, Add</i>	5,420.20	
			<i>For Class 56 Rating, Add</i>	7,189.91	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,134.52	3,061.51
			<i>For Class 52 Rating, Deduct</i>	-2,694.55	
			<i>For Class 54 Rating, Add</i>	3,730.05	
			<i>For Class 55 Rating, Add</i>	5,573.91	
			<i>For Class 56 Rating, Add</i>	7,393.28	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,823.00	3,066.00
			<i>For Class 52 Rating, Deduct</i>	-2,769.53	
			<i>For Class 54 Rating, Add</i>	3,832.38	
			<i>For Class 55 Rating, Add</i>	5,726.08	
			<i>For Class 56 Rating, Add</i>	7,594.61	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,519.73	3,070.50
			<i>For Class 52 Rating, Deduct</i>	-2,845.42	
			<i>For Class 54 Rating, Add</i>	3,935.94	
			<i>For Class 55 Rating, Add</i>	5,880.10	
			<i>For Class 56 Rating, Add</i>	7,798.38	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,208.21	3,075.01
			<i>For Class 52 Rating, Deduct</i>	-2,920.40	
			<i>For Class 54 Rating, Add</i>	4,038.28	
			<i>For Class 55 Rating, Add</i>	6,032.27	
			<i>For Class 56 Rating, Add</i>	7,999.72	
40 05 19 00-0503	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,902.20	3,079.51
			<i>For Class 52 Rating, Deduct</i>	-2,995.99	
			<i>For Class 54 Rating, Add</i>	4,141.43	
			<i>For Class 55 Rating, Add</i>	6,185.67	
			<i>For Class 56 Rating, Add</i>	8,202.67	
40 05 19 00-0504	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,592.05	3,084.01
			<i>For Class 52 Rating, Deduct</i>	-3,071.12	
			<i>For Class 54 Rating, Add</i>	4,243.97	
			<i>For Class 55 Rating, Add</i>	6,338.15	
			<i>For Class 56 Rating, Add</i>	8,404.42	
40 05 19 00-0505	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,143.10	3,088.51
			<i>For Class 52 Rating, Deduct</i>	-3,130.99	
			<i>For Class 54 Rating, Add</i>	4,325.69	
			<i>For Class 55 Rating, Add</i>	6,459.68	
			<i>For Class 56 Rating, Add</i>	8,565.21	
40 05 19 00-0506	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,975.90	3,093.02
			<i>For Class 52 Rating, Deduct</i>	-3,221.85	
			<i>For Class 54 Rating, Add</i>	4,449.66	
			<i>For Class 55 Rating, Add</i>	6,644.03	
			<i>For Class 56 Rating, Add</i>	8,809.12	
40 05 19 00-0507	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,664.38	3,097.52
			<i>For Class 52 Rating, Deduct</i>	-3,296.83	
			<i>For Class 54 Rating, Add</i>	4,551.99	
			<i>For Class 55 Rating, Add</i>	6,796.21	
			<i>For Class 56 Rating, Add</i>	9,010.45	
40 05 19 00-0508	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,359.73	3,102.02
			<i>For Class 52 Rating, Deduct</i>	-3,372.57	
			<i>For Class 54 Rating, Add</i>	4,655.36	
			<i>For Class 55 Rating, Add</i>	6,949.91	
			<i>For Class 56 Rating, Add</i>	9,213.81	
40 05 19 00-0509	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,048.22	3,106.52
			<i>For Class 52 Rating, Deduct</i>	-3,447.55	
			<i>For Class 54 Rating, Add</i>	4,757.69	
			<i>For Class 55 Rating, Add</i>	7,102.09	
			<i>For Class 56 Rating, Add</i>	9,415.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	36,744.96 -3,523.44 4,861.26 7,256.10 9,618.92	3,111.03
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	37,432.05 -3,598.27 4,963.38 7,407.97 9,819.85	3,115.53
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	38,128.78 -3,674.16 5,066.95 7,561.98 10,023.62	3,120.02
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	38,817.28 -3,749.15 5,169.28 7,714.16 10,224.96	3,124.53
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	39,512.63 -3,824.88 5,272.64 7,867.87 10,428.32	3,129.03
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	17,449.56 -1,298.90 1,838.92 2,768.61 3,686.50	3,723.32
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	18,461.01 -1,409.41 1,989.70 2,992.81 3,983.11	3,727.83
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	19,471.08 -1,519.76 2,140.27 3,216.70 4,279.31	3,732.33
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	20,489.41 -1,631.03 2,292.07 3,442.43 4,577.95	3,736.84
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	21,500.86 -1,741.54 2,442.85 3,666.62 4,874.56	3,741.33
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	22,512.30 -1,852.05 2,593.62 3,890.82 5,171.17	3,745.83
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	23,529.25 -1,963.16 2,745.23 4,116.24 5,469.41	3,750.34
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	24,542.07 -2,073.82 2,896.21 4,340.74 5,766.42	3,754.84
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	25,552.15 -2,184.18 3,046.78 4,564.63 6,062.63	3,759.34
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	26,570.46 -2,295.44 3,198.58 4,790.36 6,361.26	3,763.84
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	27,581.92 -2,405.95 3,349.36 5,014.55 6,657.87	3,768.35

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,600.24	3,772.85
		For Class 52 Rating, Deduct	-2,517.22	
		For Class 54 Rating, Add	3,501.17	
		For Class 55 Rating, Add	5,240.28	
		For Class 56 Rating, Add	6,956.51	
40 05 19 00-0528	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,610.32	3,777.35
		For Class 52 Rating, Deduct	-2,627.58	
		For Class 54 Rating, Add	3,651.74	
		For Class 55 Rating, Add	5,464.17	
		For Class 56 Rating, Add	7,252.72	
40 05 19 00-0529	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,621.77	3,781.85
		For Class 52 Rating, Deduct	-2,738.08	
		For Class 54 Rating, Add	3,802.51	
		For Class 55 Rating, Add	5,688.37	
		For Class 56 Rating, Add	7,549.33	
40 05 19 00-0530	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,640.08	3,786.36
		For Class 52 Rating, Deduct	-2,849.35	
		For Class 54 Rating, Add	3,954.32	
		For Class 55 Rating, Add	5,914.09	
		For Class 56 Rating, Add	7,847.97	
40 05 19 00-0531	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,651.53	3,790.86
		For Class 52 Rating, Deduct	-2,959.86	
		For Class 54 Rating, Add	4,105.10	
		For Class 55 Rating, Add	6,138.29	
		For Class 56 Rating, Add	8,144.58	
40 05 19 00-0532	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,661.60	3,795.36
		For Class 52 Rating, Deduct	-3,070.22	
		For Class 54 Rating, Add	4,255.67	
		For Class 55 Rating, Add	6,362.18	
		For Class 56 Rating, Add	8,440.78	
40 05 19 00-0533	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,679.93	3,799.86
		For Class 52 Rating, Deduct	-3,181.48	
		For Class 54 Rating, Add	4,407.47	
		For Class 55 Rating, Add	6,587.91	
		For Class 56 Rating, Add	8,739.42	
40 05 19 00-0534	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,691.38	3,804.36
		For Class 52 Rating, Deduct	-3,291.99	
		For Class 54 Rating, Add	4,558.25	
		For Class 55 Rating, Add	6,812.10	
		For Class 56 Rating, Add	9,036.03	
40 05 19 00-0535	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,701.46	3,808.87
		For Class 52 Rating, Deduct	-3,402.35	
		For Class 54 Rating, Add	4,708.82	
		For Class 55 Rating, Add	7,035.99	
		For Class 56 Rating, Add	9,332.24	
40 05 19 00-0536	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,719.79	3,813.37
		For Class 52 Rating, Deduct	-3,513.61	
		For Class 54 Rating, Add	4,860.63	
		For Class 55 Rating, Add	7,261.72	
		For Class 56 Rating, Add	9,630.88	
40 05 19 00-0537	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,732.60	3,817.87
		For Class 52 Rating, Deduct	-3,624.27	
		For Class 54 Rating, Add	5,011.61	
		For Class 55 Rating, Add	7,486.22	
		For Class 56 Rating, Add	9,927.89	
40 05 19 00-0538	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,742.67	3,822.37
		For Class 52 Rating, Deduct	-3,734.63	
		For Class 54 Rating, Add	5,162.18	
		For Class 55 Rating, Add	7,710.11	
		For Class 56 Rating, Add	10,224.10	
40 05 19 00-0539	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,760.99	3,826.88
		For Class 52 Rating, Deduct	-3,845.90	
		For Class 54 Rating, Add	5,313.98	
		For Class 55 Rating, Add	7,935.84	
		For Class 56 Rating, Add	10,522.73	
40 05 19 00-0540	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,772.45	3,831.38
		For Class 52 Rating, Deduct	-3,956.41	
		For Class 54 Rating, Add	5,464.76	
		For Class 55 Rating, Add	8,160.04	
		For Class 56 Rating, Add	10,819.35	
40 05 19 00-0541	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,782.52	3,835.88
		For Class 52 Rating, Deduct	-4,066.76	
		For Class 54 Rating, Add	5,615.33	
		For Class 55 Rating, Add	8,383.93	
		For Class 56 Rating, Add	11,115.55	
40 05 19 00-0542	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,800.84	3,840.38
		For Class 52 Rating, Deduct	-4,178.03	
		For Class 54 Rating, Add	5,767.14	
		For Class 55 Rating, Add	8,609.65	
		For Class 56 Rating, Add	11,414.19	
40 05 19 00-0543	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,812.30	3,844.88
		For Class 52 Rating, Deduct	-4,288.54	
		For Class 54 Rating, Add	5,917.91	
		For Class 55 Rating, Add	8,833.85	
		For Class 56 Rating, Add	11,710.80	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,700.05	3,849.39
For Class 52 Rating, Deduct	-4,385.44	
For Class 54 Rating, Add	6,050.14	
For Class 55 Rating, Add	9,030.46	
For Class 56 Rating, Add	11,970.92	
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,842.06	3,853.88
For Class 52 Rating, Deduct	-4,510.31	
For Class 54 Rating, Add	6,220.50	
For Class 55 Rating, Add	9,283.77	
For Class 56 Rating, Add	12,306.05	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,852.13	3,858.39
For Class 52 Rating, Deduct	-4,620.67	
For Class 54 Rating, Add	6,371.07	
For Class 55 Rating, Add	9,507.66	
For Class 56 Rating, Add	12,602.25	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,871.83	3,862.89
For Class 52 Rating, Deduct	-4,732.09	
For Class 54 Rating, Add	6,523.08	
For Class 55 Rating, Add	9,733.70	
For Class 56 Rating, Add	12,901.30	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,881.91	3,867.40
For Class 52 Rating, Deduct	-4,842.44	
For Class 54 Rating, Add	6,673.65	
For Class 55 Rating, Add	9,957.59	
For Class 56 Rating, Add	13,197.50	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,891.98	3,871.90
For Class 52 Rating, Deduct	-4,952.80	
For Class 54 Rating, Add	6,824.22	
For Class 55 Rating, Add	10,181.48	
For Class 56 Rating, Add	13,493.71	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,911.69	3,876.40
For Class 52 Rating, Deduct	-5,064.22	
For Class 54 Rating, Add	6,976.23	
For Class 55 Rating, Add	10,407.51	
For Class 56 Rating, Add	13,792.75	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,921.75	3,880.90
For Class 52 Rating, Deduct	-5,174.58	
For Class 54 Rating, Add	7,126.80	
For Class 55 Rating, Add	10,631.40	
For Class 56 Rating, Add	14,088.96	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,933.20	3,885.41
For Class 52 Rating, Deduct	-5,285.09	
For Class 54 Rating, Add	7,277.58	
For Class 55 Rating, Add	10,855.60	
For Class 56 Rating, Add	14,385.57	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,931.53	3,889.91
For Class 52 Rating, Deduct	-5,396.35	
For Class 54 Rating, Add	7,429.39	
For Class 55 Rating, Add	11,081.32	
For Class 56 Rating, Add	14,684.21	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	545.79	206.02
For Class 52 Rating, Deduct	-25.70	
For Class 54 Rating, Add	38.79	
For Class 55 Rating, Add	59.59	
For Class 56 Rating, Add	80.16	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	586.98	209.63
For Class 52 Rating, Deduct	-29.63	
For Class 54 Rating, Add	44.22	
For Class 55 Rating, Add	67.69	
For Class 56 Rating, Add	90.90	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	628.17	213.23
For Class 52 Rating, Deduct	-33.56	
For Class 54 Rating, Add	49.64	
For Class 55 Rating, Add	75.79	
For Class 56 Rating, Add	101.64	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	669.36	216.83
For Class 52 Rating, Deduct	-37.49	
For Class 54 Rating, Add	55.07	
For Class 55 Rating, Add	83.89	
For Class 56 Rating, Add	112.37	

40	40 Process Interconnections
40 05 Common Work Results For Process Interconnections	
40 05 19 Ductile Iron Process Pipe	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA 4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		710.54	220.43
	<i>For Class 52 Rating, Deduct</i>		-41.42	
	<i>For Class 54 Rating, Add</i>		60.49	
	<i>For Class 55 Rating, Add</i>		91.99	
	<i>For Class 56 Rating, Add</i>		123.11	
40 05 19 00-0561	EA 4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		751.74	224.03
	<i>For Class 52 Rating, Deduct</i>		-45.35	
	<i>For Class 54 Rating, Add</i>		65.92	
	<i>For Class 55 Rating, Add</i>		100.09	
	<i>For Class 56 Rating, Add</i>		133.85	
40 05 19 00-0562	EA 4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		792.93	227.63
	<i>For Class 52 Rating, Deduct</i>		-49.28	
	<i>For Class 54 Rating, Add</i>		71.34	
	<i>For Class 55 Rating, Add</i>		108.19	
	<i>For Class 56 Rating, Add</i>		144.59	
40 05 19 00-0563	EA 4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		834.11	231.24
	<i>For Class 52 Rating, Deduct</i>		-53.21	
	<i>For Class 54 Rating, Add</i>		76.77	
	<i>For Class 55 Rating, Add</i>		116.29	
	<i>For Class 56 Rating, Add</i>		155.32	
40 05 19 00-0564	EA 4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		875.30	234.84
	<i>For Class 52 Rating, Deduct</i>		-57.14	
	<i>For Class 54 Rating, Add</i>		82.19	
	<i>For Class 55 Rating, Add</i>		124.39	
	<i>For Class 56 Rating, Add</i>		166.06	
40 05 19 00-0565	EA 4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		916.50	238.44
	<i>For Class 52 Rating, Deduct</i>		-61.08	
	<i>For Class 54 Rating, Add</i>		87.62	
	<i>For Class 55 Rating, Add</i>		132.49	
	<i>For Class 56 Rating, Add</i>		176.80	
40 05 19 00-0566	EA 4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		957.68	242.04
	<i>For Class 52 Rating, Deduct</i>		-65.01	
	<i>For Class 54 Rating, Add</i>		93.04	
	<i>For Class 55 Rating, Add</i>		140.59	
	<i>For Class 56 Rating, Add</i>		187.54	
40 05 19 00-0567	EA 4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		998.87	245.64
	<i>For Class 52 Rating, Deduct</i>		-68.94	
	<i>For Class 54 Rating, Add</i>		98.47	
	<i>For Class 55 Rating, Add</i>		148.68	
	<i>For Class 56 Rating, Add</i>		198.27	
40 05 19 00-0568	EA 4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,040.06	249.25
	<i>For Class 52 Rating, Deduct</i>		-72.87	
	<i>For Class 54 Rating, Add</i>		103.89	
	<i>For Class 55 Rating, Add</i>		156.78	
	<i>For Class 56 Rating, Add</i>		209.01	
40 05 19 00-0569	EA 4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,081.24	252.85
	<i>For Class 52 Rating, Deduct</i>		-76.80	
	<i>For Class 54 Rating, Add</i>		109.32	
	<i>For Class 55 Rating, Add</i>		164.88	
	<i>For Class 56 Rating, Add</i>		219.75	
40 05 19 00-0570	EA 4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,122.44	256.45
	<i>For Class 52 Rating, Deduct</i>		-80.73	
	<i>For Class 54 Rating, Add</i>		114.75	
	<i>For Class 55 Rating, Add</i>		172.98	
	<i>For Class 56 Rating, Add</i>		230.49	
40 05 19 00-0571	EA 4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,163.63	260.05
	<i>For Class 52 Rating, Deduct</i>		-84.66	
	<i>For Class 54 Rating, Add</i>		120.17	
	<i>For Class 55 Rating, Add</i>		181.08	
	<i>For Class 56 Rating, Add</i>		241.22	
40 05 19 00-0572	EA 4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,204.82	263.65
	<i>For Class 52 Rating, Deduct</i>		-88.59	
	<i>For Class 54 Rating, Add</i>		125.60	
	<i>For Class 55 Rating, Add</i>		189.18	
	<i>For Class 56 Rating, Add</i>		251.96	
40 05 19 00-0573	EA 4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,246.00	267.25
	<i>For Class 52 Rating, Deduct</i>		-92.52	
	<i>For Class 54 Rating, Add</i>		131.02	
	<i>For Class 55 Rating, Add</i>		197.28	
	<i>For Class 56 Rating, Add</i>		262.70	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574	EA			4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,287.20	270.86
				For Class 52 Rating, Deduct	-96.45	
				For Class 54 Rating, Add	136.45	
				For Class 55 Rating, Add	205.38	
				For Class 56 Rating, Add	273.44	
40 05 19 00-0575	EA			4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,328.39	274.46
				For Class 52 Rating, Deduct	-100.38	
				For Class 54 Rating, Add	141.87	
				For Class 55 Rating, Add	213.48	
				For Class 56 Rating, Add	284.17	
40 05 19 00-0576	EA			4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,369.57	278.05
				For Class 52 Rating, Deduct	-104.31	
				For Class 54 Rating, Add	147.30	
				For Class 55 Rating, Add	221.58	
				For Class 56 Rating, Add	294.91	
40 05 19 00-0577	EA			4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.77	281.66
				For Class 52 Rating, Deduct	-108.24	
				For Class 54 Rating, Add	152.72	
				For Class 55 Rating, Add	229.68	
				For Class 56 Rating, Add	305.65	
40 05 19 00-0578	EA			4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,451.97	285.26
				For Class 52 Rating, Deduct	-112.17	
				For Class 54 Rating, Add	158.15	
				For Class 55 Rating, Add	237.78	
				For Class 56 Rating, Add	316.39	
40 05 19 00-0579	EA			4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.15	288.87
				For Class 52 Rating, Deduct	-116.10	
				For Class 54 Rating, Add	163.57	
				For Class 55 Rating, Add	245.88	
				For Class 56 Rating, Add	327.12	
40 05 19 00-0580	EA			4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,534.34	292.47
				For Class 52 Rating, Deduct	-120.03	
				For Class 54 Rating, Add	169.00	
				For Class 55 Rating, Add	253.97	
				For Class 56 Rating, Add	337.86	
40 05 19 00-0581	EA			4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,575.53	296.07
				For Class 52 Rating, Deduct	-123.96	
				For Class 54 Rating, Add	174.42	
				For Class 55 Rating, Add	262.07	
				For Class 56 Rating, Add	348.60	
40 05 19 00-0582	EA			4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,616.71	299.67
				For Class 52 Rating, Deduct	-127.89	
				For Class 54 Rating, Add	179.85	
				For Class 55 Rating, Add	270.17	
				For Class 56 Rating, Add	359.33	
40 05 19 00-0583	EA			4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,657.91	303.27
				For Class 52 Rating, Deduct	-131.83	
				For Class 54 Rating, Add	185.28	
				For Class 55 Rating, Add	278.27	
				For Class 56 Rating, Add	370.07	
40 05 19 00-0584	EA			4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,699.10	306.87
				For Class 52 Rating, Deduct	-135.76	
				For Class 54 Rating, Add	190.70	
				For Class 55 Rating, Add	286.37	
				For Class 56 Rating, Add	380.81	
40 05 19 00-0585	EA			4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.28	310.48
				For Class 52 Rating, Deduct	-139.69	
				For Class 54 Rating, Add	196.13	
				For Class 55 Rating, Add	294.47	
				For Class 56 Rating, Add	391.55	
40 05 19 00-0586	EA			4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,781.47	314.08
				For Class 52 Rating, Deduct	-143.62	
				For Class 54 Rating, Add	201.55	
				For Class 55 Rating, Add	302.57	
				For Class 56 Rating, Add	402.28	
40 05 19 00-0587	EA			4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,822.67	317.67
				For Class 52 Rating, Deduct	-147.55	
				For Class 54 Rating, Add	206.98	
				For Class 55 Rating, Add	310.67	
				For Class 56 Rating, Add	413.02	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,863.85	321.28
			<i>For Class 52 Rating, Deduct</i>	-151.48	
			<i>For Class 54 Rating, Add</i>	212.40	
			<i>For Class 55 Rating, Add</i>	318.77	
			<i>For Class 56 Rating, Add</i>	423.76	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,905.04	324.88
			<i>For Class 52 Rating, Deduct</i>	-155.41	
			<i>For Class 54 Rating, Add</i>	217.83	
			<i>For Class 55 Rating, Add</i>	326.87	
			<i>For Class 56 Rating, Add</i>	434.50	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.23	328.49
			<i>For Class 52 Rating, Deduct</i>	-159.34	
			<i>For Class 54 Rating, Add</i>	223.25	
			<i>For Class 55 Rating, Add</i>	334.97	
			<i>For Class 56 Rating, Add</i>	445.23	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,987.43	332.09
			<i>For Class 52 Rating, Deduct</i>	-163.27	
			<i>For Class 54 Rating, Add</i>	228.68	
			<i>For Class 55 Rating, Add</i>	343.07	
			<i>For Class 56 Rating, Add</i>	455.97	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.61	335.68
			<i>For Class 52 Rating, Deduct</i>	-167.20	
			<i>For Class 54 Rating, Add</i>	234.10	
			<i>For Class 55 Rating, Add</i>	351.17	
			<i>For Class 56 Rating, Add</i>	466.71	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,069.80	339.29
			<i>For Class 52 Rating, Deduct</i>	-171.13	
			<i>For Class 54 Rating, Add</i>	239.53	
			<i>For Class 55 Rating, Add</i>	359.27	
			<i>For Class 56 Rating, Add</i>	477.45	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,110.99	342.89
			<i>For Class 52 Rating, Deduct</i>	-175.06	
			<i>For Class 54 Rating, Add</i>	244.95	
			<i>For Class 55 Rating, Add</i>	367.36	
			<i>For Class 56 Rating, Add</i>	488.18	

40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0594)

40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	682.89	259.33
			<i>For Class 52 Rating, Deduct</i>	-31.90	
			<i>For Class 54 Rating, Add</i>	48.21	
			<i>For Class 55 Rating, Add</i>	74.10	
			<i>For Class 56 Rating, Add</i>	99.69	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	732.34	262.92
			<i>For Class 52 Rating, Deduct</i>	-36.74	
			<i>For Class 54 Rating, Add</i>	54.87	
			<i>For Class 55 Rating, Add</i>	84.03	
			<i>For Class 56 Rating, Add</i>	112.86	
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	781.78	266.53
			<i>For Class 52 Rating, Deduct</i>	-41.57	
			<i>For Class 54 Rating, Add</i>	61.54	
			<i>For Class 55 Rating, Add</i>	93.97	
			<i>For Class 56 Rating, Add</i>	126.03	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	831.22	270.13
			<i>For Class 52 Rating, Deduct</i>	-46.41	
			<i>For Class 54 Rating, Add</i>	68.20	
			<i>For Class 55 Rating, Add</i>	103.91	
			<i>For Class 56 Rating, Add</i>	139.20	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	880.64	273.74
			<i>For Class 52 Rating, Deduct</i>	-51.25	
			<i>For Class 54 Rating, Add</i>	74.86	
			<i>For Class 55 Rating, Add</i>	113.85	
			<i>For Class 56 Rating, Add</i>	152.37	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	930.08	277.34
			<i>For Class 52 Rating, Deduct</i>	-56.09	
			<i>For Class 54 Rating, Add</i>	81.52	
			<i>For Class 55 Rating, Add</i>	123.79	
			<i>For Class 56 Rating, Add</i>	165.54	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	979.52	280.93
<i>For Class 52 Rating, Deduct</i>	-60.92	
<i>For Class 54 Rating, Add</i>	88.19	
<i>For Class 55 Rating, Add</i>	133.72	
<i>For Class 56 Rating, Add</i>	178.71	
40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,028.95	284.54
<i>For Class 52 Rating, Deduct</i>	-65.76	
<i>For Class 54 Rating, Add</i>	94.85	
<i>For Class 55 Rating, Add</i>	143.66	
<i>For Class 56 Rating, Add</i>	191.88	
40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,078.39	288.14
<i>For Class 52 Rating, Deduct</i>	-70.60	
<i>For Class 54 Rating, Add</i>	101.51	
<i>For Class 55 Rating, Add</i>	153.60	
<i>For Class 56 Rating, Add</i>	205.05	
40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,127.83	291.74
<i>For Class 52 Rating, Deduct</i>	-75.44	
<i>For Class 54 Rating, Add</i>	108.17	
<i>For Class 55 Rating, Add</i>	163.54	
<i>For Class 56 Rating, Add</i>	218.22	
40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,177.25	295.35
<i>For Class 52 Rating, Deduct</i>	-80.27	
<i>For Class 54 Rating, Add</i>	114.83	
<i>For Class 55 Rating, Add</i>	173.48	
<i>For Class 56 Rating, Add</i>	231.39	
40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,226.69	298.95
<i>For Class 52 Rating, Deduct</i>	-85.11	
<i>For Class 54 Rating, Add</i>	121.50	
<i>For Class 55 Rating, Add</i>	183.41	
<i>For Class 56 Rating, Add</i>	244.56	
40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,276.13	302.54
<i>For Class 52 Rating, Deduct</i>	-89.95	
<i>For Class 54 Rating, Add</i>	128.16	
<i>For Class 55 Rating, Add</i>	193.35	
<i>For Class 56 Rating, Add</i>	257.73	
40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.56	306.15
<i>For Class 52 Rating, Deduct</i>	-94.79	
<i>For Class 54 Rating, Add</i>	134.82	
<i>For Class 55 Rating, Add</i>	203.29	
<i>For Class 56 Rating, Add</i>	270.90	
40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,375.00	309.75
<i>For Class 52 Rating, Deduct</i>	-99.62	
<i>For Class 54 Rating, Add</i>	141.48	
<i>For Class 55 Rating, Add</i>	213.23	
<i>For Class 56 Rating, Add</i>	284.07	
40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,424.44	313.36
<i>For Class 52 Rating, Deduct</i>	-104.46	
<i>For Class 54 Rating, Add</i>	148.15	
<i>For Class 55 Rating, Add</i>	223.17	
<i>For Class 56 Rating, Add</i>	297.24	
40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,473.86	316.96
<i>For Class 52 Rating, Deduct</i>	-109.30	
<i>For Class 54 Rating, Add</i>	154.81	
<i>For Class 55 Rating, Add</i>	233.11	
<i>For Class 56 Rating, Add</i>	310.41	
40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,523.30	320.55
<i>For Class 52 Rating, Deduct</i>	-114.14	
<i>For Class 54 Rating, Add</i>	161.47	
<i>For Class 55 Rating, Add</i>	243.04	
<i>For Class 56 Rating, Add</i>	323.58	
40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.74	324.16
<i>For Class 52 Rating, Deduct</i>	-118.97	
<i>For Class 54 Rating, Add</i>	168.13	
<i>For Class 55 Rating, Add</i>	252.98	
<i>For Class 56 Rating, Add</i>	336.75	
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,622.18	327.76
<i>For Class 52 Rating, Deduct</i>	-123.81	
<i>For Class 54 Rating, Add</i>	174.79	
<i>For Class 55 Rating, Add</i>	262.92	
<i>For Class 56 Rating, Add</i>	349.92	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,671.61		331.36
		<i>For Class 52 Rating, Deduct</i>	-128.65		
		<i>For Class 54 Rating, Add</i>	181.46		
		<i>For Class 55 Rating, Add</i>	272.86		
		<i>For Class 56 Rating, Add</i>	363.09		
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,721.04		334.97
		<i>For Class 52 Rating, Deduct</i>	-133.49		
		<i>For Class 54 Rating, Add</i>	188.12		
		<i>For Class 55 Rating, Add</i>	282.80		
		<i>For Class 56 Rating, Add</i>	376.26		
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.48		338.56
		<i>For Class 52 Rating, Deduct</i>	-138.33		
		<i>For Class 54 Rating, Add</i>	194.78		
		<i>For Class 55 Rating, Add</i>	292.73		
		<i>For Class 56 Rating, Add</i>	389.43		
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,819.91		342.16
		<i>For Class 52 Rating, Deduct</i>	-143.16		
		<i>For Class 54 Rating, Add</i>	201.44		
		<i>For Class 55 Rating, Add</i>	302.67		
		<i>For Class 56 Rating, Add</i>	402.60		
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,869.35		345.77
		<i>For Class 52 Rating, Deduct</i>	-148.00		
		<i>For Class 54 Rating, Add</i>	208.11		
		<i>For Class 55 Rating, Add</i>	312.61		
		<i>For Class 56 Rating, Add</i>	415.77		
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,918.79		349.37
		<i>For Class 52 Rating, Deduct</i>	-152.84		
		<i>For Class 54 Rating, Add</i>	214.77		
		<i>For Class 55 Rating, Add</i>	322.55		
		<i>For Class 56 Rating, Add</i>	428.94		
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,968.22		352.98
		<i>For Class 52 Rating, Deduct</i>	-157.68		
		<i>For Class 54 Rating, Add</i>	221.43		
		<i>For Class 55 Rating, Add</i>	332.49		
		<i>For Class 56 Rating, Add</i>	442.11		
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,017.65		356.58
		<i>For Class 52 Rating, Deduct</i>	-162.51		
		<i>For Class 54 Rating, Add</i>	228.09		
		<i>For Class 55 Rating, Add</i>	342.42		
		<i>For Class 56 Rating, Add</i>	455.28		
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,067.09		360.17
		<i>For Class 52 Rating, Deduct</i>	-167.35		
		<i>For Class 54 Rating, Add</i>	234.75		
		<i>For Class 55 Rating, Add</i>	352.36		
		<i>For Class 56 Rating, Add</i>	468.45		
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.53		363.78
		<i>For Class 52 Rating, Deduct</i>	-172.19		
		<i>For Class 54 Rating, Add</i>	241.42		
		<i>For Class 55 Rating, Add</i>	362.30		
		<i>For Class 56 Rating, Add</i>	481.62		
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,165.97		367.38
		<i>For Class 52 Rating, Deduct</i>	-177.03		
		<i>For Class 54 Rating, Add</i>	248.08		
		<i>For Class 55 Rating, Add</i>	372.24		
		<i>For Class 56 Rating, Add</i>	494.79		
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,215.41		370.98
		<i>For Class 52 Rating, Deduct</i>	-181.86		
		<i>For Class 54 Rating, Add</i>	254.74		
		<i>For Class 55 Rating, Add</i>	382.18		
		<i>For Class 56 Rating, Add</i>	507.96		
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,264.84		374.59
		<i>For Class 52 Rating, Deduct</i>	-186.70		
		<i>For Class 54 Rating, Add</i>	261.40		
		<i>For Class 55 Rating, Add</i>	392.12		
		<i>For Class 56 Rating, Add</i>	521.13		
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,314.27		378.18
		<i>For Class 52 Rating, Deduct</i>	-191.54		
		<i>For Class 54 Rating, Add</i>	268.07		
		<i>For Class 55 Rating, Add</i>	402.05		
		<i>For Class 56 Rating, Add</i>	534.30		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,363.71	381.78
<i>For Class 52 Rating, Deduct</i>	-196.38	
<i>For Class 54 Rating, Add</i>	274.73	
<i>For Class 55 Rating, Add</i>	411.99	
<i>For Class 56 Rating, Add</i>	547.47	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,413.15	385.39
<i>For Class 52 Rating, Deduct</i>	-201.21	
<i>For Class 54 Rating, Add</i>	281.39	
<i>For Class 55 Rating, Add</i>	421.93	
<i>For Class 56 Rating, Add</i>	560.64	
40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,462.58	388.99
<i>For Class 52 Rating, Deduct</i>	-206.05	
<i>For Class 54 Rating, Add</i>	288.05	
<i>For Class 55 Rating, Add</i>	431.87	
<i>For Class 56 Rating, Add</i>	573.81	
40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,512.02	392.60
<i>For Class 52 Rating, Deduct</i>	-210.89	
<i>For Class 54 Rating, Add</i>	294.72	
<i>For Class 55 Rating, Add</i>	441.81	
<i>For Class 56 Rating, Add</i>	586.98	
40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,561.45	396.19
<i>For Class 52 Rating, Deduct</i>	-215.73	
<i>For Class 54 Rating, Add</i>	301.38	
<i>For Class 55 Rating, Add</i>	451.74	
<i>For Class 56 Rating, Add</i>	600.15	
40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	925.35	331.36
<i>For Class 52 Rating, Deduct</i>	-46.56	
<i>For Class 54 Rating, Add</i>	69.52	
<i>For Class 55 Rating, Add</i>	106.44	
<i>For Class 56 Rating, Add</i>	142.94	
40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.28	334.97
<i>For Class 52 Rating, Deduct</i>	-53.21	
<i>For Class 54 Rating, Add</i>	78.65	
<i>For Class 55 Rating, Add</i>	120.06	
<i>For Class 56 Rating, Add</i>	160.98	
40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,057.21	338.56
<i>For Class 52 Rating, Deduct</i>	-59.87	
<i>For Class 54 Rating, Add</i>	87.79	
<i>For Class 55 Rating, Add</i>	133.67	
<i>For Class 56 Rating, Add</i>	179.02	
40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,123.13	342.16
<i>For Class 52 Rating, Deduct</i>	-66.52	
<i>For Class 54 Rating, Add</i>	96.93	
<i>For Class 55 Rating, Add</i>	147.29	
<i>For Class 56 Rating, Add</i>	197.05	
40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,189.06	345.77
<i>For Class 52 Rating, Deduct</i>	-73.17	
<i>For Class 54 Rating, Add</i>	106.06	
<i>For Class 55 Rating, Add</i>	160.91	
<i>For Class 56 Rating, Add</i>	215.09	
40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,254.99	349.37
<i>For Class 52 Rating, Deduct</i>	-79.82	
<i>For Class 54 Rating, Add</i>	115.20	
<i>For Class 55 Rating, Add</i>	174.52	
<i>For Class 56 Rating, Add</i>	233.12	
40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,320.91	352.98
<i>For Class 52 Rating, Deduct</i>	-86.47	
<i>For Class 54 Rating, Add</i>	124.33	
<i>For Class 55 Rating, Add</i>	188.14	
<i>For Class 56 Rating, Add</i>	251.16	
40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,386.84	356.58
<i>For Class 52 Rating, Deduct</i>	-93.12	
<i>For Class 54 Rating, Add</i>	133.47	
<i>For Class 55 Rating, Add</i>	201.75	
<i>For Class 56 Rating, Add</i>	269.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,452.77	360.17
			<i>For Class 52 Rating, Deduct</i>	-99.78	
			<i>For Class 54 Rating, Add</i>	142.61	
			<i>For Class 55 Rating, Add</i>	215.37	
			<i>For Class 56 Rating, Add</i>	287.23	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,518.70	363.78
			<i>For Class 52 Rating, Deduct</i>	-106.43	
			<i>For Class 54 Rating, Add</i>	151.74	
			<i>For Class 55 Rating, Add</i>	228.99	
			<i>For Class 56 Rating, Add</i>	305.26	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,584.63	367.38
			<i>For Class 52 Rating, Deduct</i>	-113.08	
			<i>For Class 54 Rating, Add</i>	160.88	
			<i>For Class 55 Rating, Add</i>	242.60	
			<i>For Class 56 Rating, Add</i>	323.30	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,650.56	370.98
			<i>For Class 52 Rating, Deduct</i>	-119.73	
			<i>For Class 54 Rating, Add</i>	170.01	
			<i>For Class 55 Rating, Add</i>	256.22	
			<i>For Class 56 Rating, Add</i>	341.33	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,716.48	374.59
			<i>For Class 52 Rating, Deduct</i>	-126.38	
			<i>For Class 54 Rating, Add</i>	179.15	
			<i>For Class 55 Rating, Add</i>	269.83	
			<i>For Class 56 Rating, Add</i>	359.37	
40 05 19 00-0649	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,782.41	378.18
			<i>For Class 52 Rating, Deduct</i>	-133.03	
			<i>For Class 54 Rating, Add</i>	188.29	
			<i>For Class 55 Rating, Add</i>	283.45	
			<i>For Class 56 Rating, Add</i>	377.40	
40 05 19 00-0650	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,848.34	381.78
			<i>For Class 52 Rating, Deduct</i>	-139.69	
			<i>For Class 54 Rating, Add</i>	197.42	
			<i>For Class 55 Rating, Add</i>	297.06	
			<i>For Class 56 Rating, Add</i>	395.44	
40 05 19 00-0651	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,914.27	385.39
			<i>For Class 52 Rating, Deduct</i>	-146.34	
			<i>For Class 54 Rating, Add</i>	206.56	
			<i>For Class 55 Rating, Add</i>	310.68	
			<i>For Class 56 Rating, Add</i>	413.47	
40 05 19 00-0652	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.19	388.99
			<i>For Class 52 Rating, Deduct</i>	-152.99	
			<i>For Class 54 Rating, Add</i>	215.69	
			<i>For Class 55 Rating, Add</i>	324.30	
			<i>For Class 56 Rating, Add</i>	431.51	
40 05 19 00-0653	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,046.12	392.60
			<i>For Class 52 Rating, Deduct</i>	-159.64	
			<i>For Class 54 Rating, Add</i>	224.83	
			<i>For Class 55 Rating, Add</i>	337.91	
			<i>For Class 56 Rating, Add</i>	449.54	
40 05 19 00-0654	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.05	396.19
			<i>For Class 52 Rating, Deduct</i>	-166.29	
			<i>For Class 54 Rating, Add</i>	233.97	
			<i>For Class 55 Rating, Add</i>	351.53	
			<i>For Class 56 Rating, Add</i>	467.58	
40 05 19 00-0655	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,177.97	399.79
			<i>For Class 52 Rating, Deduct</i>	-172.94	
			<i>For Class 54 Rating, Add</i>	243.10	
			<i>For Class 55 Rating, Add</i>	365.14	
			<i>For Class 56 Rating, Add</i>	485.61	
40 05 19 00-0656	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,243.90	403.40
			<i>For Class 52 Rating, Deduct</i>	-179.60	
			<i>For Class 54 Rating, Add</i>	252.24	
			<i>For Class 55 Rating, Add</i>	378.76	
			<i>For Class 56 Rating, Add</i>	503.65	
40 05 19 00-0657	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,309.83	407.00
			<i>For Class 52 Rating, Deduct</i>	-186.25	
			<i>For Class 54 Rating, Add</i>	261.37	
			<i>For Class 55 Rating, Add</i>	392.37	
			<i>For Class 56 Rating, Add</i>	521.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,375.75	410.60
<i>For Class 52 Rating, Deduct</i>	-192.90	
<i>For Class 54 Rating, Add</i>	270.51	
<i>For Class 55 Rating, Add</i>	405.99	
<i>For Class 56 Rating, Add</i>	539.72	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,441.68	414.21
<i>For Class 52 Rating, Deduct</i>	-199.55	
<i>For Class 54 Rating, Add</i>	279.65	
<i>For Class 55 Rating, Add</i>	419.61	
<i>For Class 56 Rating, Add</i>	557.75	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.61	417.80
<i>For Class 52 Rating, Deduct</i>	-206.20	
<i>For Class 54 Rating, Add</i>	288.78	
<i>For Class 55 Rating, Add</i>	433.22	
<i>For Class 56 Rating, Add</i>	575.79	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,573.53	421.40
<i>For Class 52 Rating, Deduct</i>	-212.85	
<i>For Class 54 Rating, Add</i>	297.92	
<i>For Class 55 Rating, Add</i>	446.84	
<i>For Class 56 Rating, Add</i>	593.82	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.46	425.01
<i>For Class 52 Rating, Deduct</i>	-219.51	
<i>For Class 54 Rating, Add</i>	307.05	
<i>For Class 55 Rating, Add</i>	460.45	
<i>For Class 56 Rating, Add</i>	611.86	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,705.39	428.61
<i>For Class 52 Rating, Deduct</i>	-226.16	
<i>For Class 54 Rating, Add</i>	316.19	
<i>For Class 55 Rating, Add</i>	474.07	
<i>For Class 56 Rating, Add</i>	629.89	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,771.31	432.22
<i>For Class 52 Rating, Deduct</i>	-232.81	
<i>For Class 54 Rating, Add</i>	325.33	
<i>For Class 55 Rating, Add</i>	487.68	
<i>For Class 56 Rating, Add</i>	647.93	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,837.24	435.81
<i>For Class 52 Rating, Deduct</i>	-239.46	
<i>For Class 54 Rating, Add</i>	334.46	
<i>For Class 55 Rating, Add</i>	501.30	
<i>For Class 56 Rating, Add</i>	665.96	
40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,903.17	439.41
<i>For Class 52 Rating, Deduct</i>	-246.11	
<i>For Class 54 Rating, Add</i>	343.60	
<i>For Class 55 Rating, Add</i>	514.92	
<i>For Class 56 Rating, Add</i>	684.00	
40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,969.10	443.02
<i>For Class 52 Rating, Deduct</i>	-252.76	
<i>For Class 54 Rating, Add</i>	352.73	
<i>For Class 55 Rating, Add</i>	528.53	
<i>For Class 56 Rating, Add</i>	702.03	
40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,035.02	446.62
<i>For Class 52 Rating, Deduct</i>	-259.42	
<i>For Class 54 Rating, Add</i>	361.87	
<i>For Class 55 Rating, Add</i>	542.15	
<i>For Class 56 Rating, Add</i>	720.07	
40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,100.95	450.22
<i>For Class 52 Rating, Deduct</i>	-266.07	
<i>For Class 54 Rating, Add</i>	371.01	
<i>For Class 55 Rating, Add</i>	555.76	
<i>For Class 56 Rating, Add</i>	738.10	
40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,166.88	453.83
<i>For Class 52 Rating, Deduct</i>	-272.72	
<i>For Class 54 Rating, Add</i>	380.14	
<i>For Class 55 Rating, Add</i>	569.38	
<i>For Class 56 Rating, Add</i>	756.14	
40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,232.80	457.42
<i>For Class 52 Rating, Deduct</i>	-279.37	
<i>For Class 54 Rating, Add</i>	389.28	
<i>For Class 55 Rating, Add</i>	583.00	
<i>For Class 56 Rating, Add</i>	774.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,298.73	461.02
			<i>For Class 52 Rating, Deduct</i>	-286.02	
			<i>For Class 54 Rating, Add</i>	398.41	
			<i>For Class 55 Rating, Add</i>	596.61	
			<i>For Class 56 Rating, Add</i>	792.21	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,364.66	464.63
			<i>For Class 52 Rating, Deduct</i>	-292.67	
			<i>For Class 54 Rating, Add</i>	407.55	
			<i>For Class 55 Rating, Add</i>	610.23	
			<i>For Class 56 Rating, Add</i>	810.24	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.59	468.23
			<i>For Class 52 Rating, Deduct</i>	-299.33	
			<i>For Class 54 Rating, Add</i>	416.69	
			<i>For Class 55 Rating, Add</i>	623.84	
			<i>For Class 56 Rating, Add</i>	828.28	
40 05 19 00-0675			10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.69	403.40
			<i>For Class 52 Rating, Deduct</i>	-59.56	
			<i>For Class 54 Rating, Add</i>	88.56	
			<i>For Class 55 Rating, Add</i>	135.42	
			<i>For Class 56 Rating, Add</i>	181.74	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,237.86	407.00
			<i>For Class 52 Rating, Deduct</i>	-68.33	
			<i>For Class 54 Rating, Add</i>	100.58	
			<i>For Class 55 Rating, Add</i>	153.33	
			<i>For Class 56 Rating, Add</i>	205.45	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,323.02	410.60
			<i>For Class 52 Rating, Deduct</i>	-77.10	
			<i>For Class 54 Rating, Add</i>	112.60	
			<i>For Class 55 Rating, Add</i>	171.23	
			<i>For Class 56 Rating, Add</i>	229.16	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,408.19	414.21
			<i>For Class 52 Rating, Deduct</i>	-85.87	
			<i>For Class 54 Rating, Add</i>	124.62	
			<i>For Class 55 Rating, Add</i>	189.14	
			<i>For Class 56 Rating, Add</i>	252.87	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.36	417.80
			<i>For Class 52 Rating, Deduct</i>	-94.64	
			<i>For Class 54 Rating, Add</i>	136.64	
			<i>For Class 55 Rating, Add</i>	207.04	
			<i>For Class 56 Rating, Add</i>	276.58	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,578.52	421.40
			<i>For Class 52 Rating, Deduct</i>	-103.40	
			<i>For Class 54 Rating, Add</i>	148.67	
			<i>For Class 55 Rating, Add</i>	224.95	
			<i>For Class 56 Rating, Add</i>	300.29	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.70	425.01
			<i>For Class 52 Rating, Deduct</i>	-112.17	
			<i>For Class 54 Rating, Add</i>	160.69	
			<i>For Class 55 Rating, Add</i>	242.86	
			<i>For Class 56 Rating, Add</i>	324.01	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,748.87	428.61
			<i>For Class 52 Rating, Deduct</i>	-120.94	
			<i>For Class 54 Rating, Add</i>	172.71	
			<i>For Class 55 Rating, Add</i>	260.77	
			<i>For Class 56 Rating, Add</i>	347.72	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,834.03	432.22
			<i>For Class 52 Rating, Deduct</i>	-129.71	
			<i>For Class 54 Rating, Add</i>	184.73	
			<i>For Class 55 Rating, Add</i>	278.67	
			<i>For Class 56 Rating, Add</i>	371.43	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,919.20	435.81
			<i>For Class 52 Rating, Deduct</i>	-138.48	
			<i>For Class 54 Rating, Add</i>	196.76	
			<i>For Class 55 Rating, Add</i>	296.58	
			<i>For Class 56 Rating, Add</i>	395.14	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,004.37	439.41
<i>For Class 52 Rating, Deduct</i>	-147.24	
<i>For Class 54 Rating, Add</i>	208.78	
<i>For Class 55 Rating, Add</i>	314.48	
<i>For Class 56 Rating, Add</i>	418.85	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,089.54	443.02
<i>For Class 52 Rating, Deduct</i>	-156.01	
<i>For Class 54 Rating, Add</i>	220.80	
<i>For Class 55 Rating, Add</i>	332.39	
<i>For Class 56 Rating, Add</i>	442.56	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,174.70	446.62
<i>For Class 52 Rating, Deduct</i>	-164.78	
<i>For Class 54 Rating, Add</i>	232.82	
<i>For Class 55 Rating, Add</i>	350.30	
<i>For Class 56 Rating, Add</i>	466.27	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,259.87	450.22
<i>For Class 52 Rating, Deduct</i>	-173.55	
<i>For Class 54 Rating, Add</i>	244.84	
<i>For Class 55 Rating, Add</i>	368.20	
<i>For Class 56 Rating, Add</i>	489.98	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,345.04	453.83
<i>For Class 52 Rating, Deduct</i>	-182.32	
<i>For Class 54 Rating, Add</i>	256.87	
<i>For Class 55 Rating, Add</i>	386.11	
<i>For Class 56 Rating, Add</i>	513.70	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,430.20	457.42
<i>For Class 52 Rating, Deduct</i>	-191.09	
<i>For Class 54 Rating, Add</i>	268.89	
<i>For Class 55 Rating, Add</i>	404.02	
<i>For Class 56 Rating, Add</i>	537.41	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,515.37	461.02
<i>For Class 52 Rating, Deduct</i>	-199.85	
<i>For Class 54 Rating, Add</i>	280.91	
<i>For Class 55 Rating, Add</i>	421.92	
<i>For Class 56 Rating, Add</i>	561.12	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,600.54	464.63
<i>For Class 52 Rating, Deduct</i>	-208.62	
<i>For Class 54 Rating, Add</i>	292.93	
<i>For Class 55 Rating, Add</i>	439.83	
<i>For Class 56 Rating, Add</i>	584.83	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,685.71	468.23
<i>For Class 52 Rating, Deduct</i>	-217.39	
<i>For Class 54 Rating, Add</i>	304.95	
<i>For Class 55 Rating, Add</i>	457.73	
<i>For Class 56 Rating, Add</i>	608.54	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,770.88	471.84
<i>For Class 52 Rating, Deduct</i>	-226.16	
<i>For Class 54 Rating, Add</i>	316.98	
<i>For Class 55 Rating, Add</i>	475.64	
<i>For Class 56 Rating, Add</i>	632.25	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.05	475.43
<i>For Class 52 Rating, Deduct</i>	-234.93	
<i>For Class 54 Rating, Add</i>	329.00	
<i>For Class 55 Rating, Add</i>	493.55	
<i>For Class 56 Rating, Add</i>	655.96	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,941.21	479.03
<i>For Class 52 Rating, Deduct</i>	-243.69	
<i>For Class 54 Rating, Add</i>	341.02	
<i>For Class 55 Rating, Add</i>	511.45	
<i>For Class 56 Rating, Add</i>	679.67	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.38	482.64
<i>For Class 52 Rating, Deduct</i>	-252.46	
<i>For Class 54 Rating, Add</i>	353.04	
<i>For Class 55 Rating, Add</i>	529.36	
<i>For Class 56 Rating, Add</i>	703.38	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,111.55	486.24
<i>For Class 52 Rating, Deduct</i>	-261.23	
<i>For Class 54 Rating, Add</i>	365.06	
<i>For Class 55 Rating, Add</i>	547.27	
<i>For Class 56 Rating, Add</i>	727.09	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA	10"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.72	489.84
			<i>For Class 52 Rating, Deduct</i>	-270.00	
			<i>For Class 54 Rating, Add</i>	377.09	
			<i>For Class 55 Rating, Add</i>	565.17	
			<i>For Class 56 Rating, Add</i>	750.81	
40 05 19 00-0701	EA	10"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,281.89	493.44
			<i>For Class 52 Rating, Deduct</i>	-278.77	
			<i>For Class 54 Rating, Add</i>	389.11	
			<i>For Class 55 Rating, Add</i>	583.08	
			<i>For Class 56 Rating, Add</i>	774.52	
40 05 19 00-0702	EA	10"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,367.06	497.04
			<i>For Class 52 Rating, Deduct</i>	-287.54	
			<i>For Class 54 Rating, Add</i>	401.13	
			<i>For Class 55 Rating, Add</i>	600.99	
			<i>For Class 56 Rating, Add</i>	798.23	
40 05 19 00-0703	EA	10"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,452.23	500.64
			<i>For Class 52 Rating, Deduct</i>	-296.30	
			<i>For Class 54 Rating, Add</i>	413.15	
			<i>For Class 55 Rating, Add</i>	618.89	
			<i>For Class 56 Rating, Add</i>	821.94	
40 05 19 00-0704	EA	10"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,537.39	504.25
			<i>For Class 52 Rating, Deduct</i>	-305.07	
			<i>For Class 54 Rating, Add</i>	425.18	
			<i>For Class 55 Rating, Add</i>	636.80	
			<i>For Class 56 Rating, Add</i>	845.65	
40 05 19 00-0705	EA	10"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,622.56	507.85
			<i>For Class 52 Rating, Deduct</i>	-313.84	
			<i>For Class 54 Rating, Add</i>	437.20	
			<i>For Class 55 Rating, Add</i>	654.71	
			<i>For Class 56 Rating, Add</i>	869.36	
40 05 19 00-0706	EA	10"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,707.73	511.46
			<i>For Class 52 Rating, Deduct</i>	-322.61	
			<i>For Class 54 Rating, Add</i>	449.22	
			<i>For Class 55 Rating, Add</i>	672.61	
			<i>For Class 56 Rating, Add</i>	893.07	
40 05 19 00-0707	EA	10"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,792.89	515.05
			<i>For Class 52 Rating, Deduct</i>	-331.38	
			<i>For Class 54 Rating, Add</i>	461.24	
			<i>For Class 55 Rating, Add</i>	690.52	
			<i>For Class 56 Rating, Add</i>	916.78	
40 05 19 00-0708	EA	10"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,878.06	518.65
			<i>For Class 52 Rating, Deduct</i>	-340.14	
			<i>For Class 54 Rating, Add</i>	473.26	
			<i>For Class 55 Rating, Add</i>	708.43	
			<i>For Class 56 Rating, Add</i>	940.50	
40 05 19 00-0709	EA	10"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,963.23	522.26
			<i>For Class 52 Rating, Deduct</i>	-348.91	
			<i>For Class 54 Rating, Add</i>	485.29	
			<i>For Class 55 Rating, Add</i>	726.33	
			<i>For Class 56 Rating, Add</i>	964.21	
40 05 19 00-0710	EA	10"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,048.39	525.86
			<i>For Class 52 Rating, Deduct</i>	-357.68	
			<i>For Class 54 Rating, Add</i>	497.31	
			<i>For Class 55 Rating, Add</i>	744.24	
			<i>For Class 56 Rating, Add</i>	987.92	
40 05 19 00-0711	EA	10"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,133.56	529.46
			<i>For Class 52 Rating, Deduct</i>	-366.45	
			<i>For Class 54 Rating, Add</i>	509.33	
			<i>For Class 55 Rating, Add</i>	762.14	
			<i>For Class 56 Rating, Add</i>	1,011.63	
40 05 19 00-0712	EA	10"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,218.73	533.06
			<i>For Class 52 Rating, Deduct</i>	-375.22	
			<i>For Class 54 Rating, Add</i>	521.35	
			<i>For Class 55 Rating, Add</i>	780.05	
			<i>For Class 56 Rating, Add</i>	1,035.34	
40 05 19 00-0713	EA	10"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,303.89	536.66
			<i>For Class 52 Rating, Deduct</i>	-383.98	
			<i>For Class 54 Rating, Add</i>	533.37	
			<i>For Class 55 Rating, Add</i>	797.96	
			<i>For Class 56 Rating, Add</i>	1,059.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,389.06	540.26
For Class 52 Rating, Deduct	-392.75	
For Class 54 Rating, Add	545.39	
For Class 55 Rating, Add	815.86	
For Class 56 Rating, Add	1,082.76	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,481.41	504.25
For Class 52 Rating, Deduct	-78.91	
For Class 54 Rating, Add	116.78	
For Class 55 Rating, Add	178.32	
For Class 56 Rating, Add	239.14	
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,587.19	507.85
For Class 52 Rating, Deduct	-89.95	
For Class 54 Rating, Add	131.89	
For Class 55 Rating, Add	200.82	
For Class 56 Rating, Add	268.93	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,692.98	511.46
For Class 52 Rating, Deduct	-100.99	
For Class 54 Rating, Add	147.01	
For Class 55 Rating, Add	223.32	
For Class 56 Rating, Add	298.72	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,798.75	515.05
For Class 52 Rating, Deduct	-112.02	
For Class 54 Rating, Add	162.12	
For Class 55 Rating, Add	245.83	
For Class 56 Rating, Add	328.51	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,904.54	518.65
For Class 52 Rating, Deduct	-123.06	
For Class 54 Rating, Add	177.24	
For Class 55 Rating, Add	268.33	
For Class 56 Rating, Add	358.31	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,010.32	522.26
For Class 52 Rating, Deduct	-134.09	
For Class 54 Rating, Add	192.35	
For Class 55 Rating, Add	290.83	
For Class 56 Rating, Add	388.10	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.10	525.86
For Class 52 Rating, Deduct	-145.13	
For Class 54 Rating, Add	207.46	
For Class 55 Rating, Add	313.34	
For Class 56 Rating, Add	417.89	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.88	529.46
For Class 52 Rating, Deduct	-156.16	
For Class 54 Rating, Add	222.58	
For Class 55 Rating, Add	335.84	
For Class 56 Rating, Add	447.68	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,327.67	533.06
For Class 52 Rating, Deduct	-167.20	
For Class 54 Rating, Add	237.69	
For Class 55 Rating, Add	358.34	
For Class 56 Rating, Add	477.48	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.44	536.66
For Class 52 Rating, Deduct	-178.24	
For Class 54 Rating, Add	252.81	
For Class 55 Rating, Add	380.85	
For Class 56 Rating, Add	507.27	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,539.23	540.26
For Class 52 Rating, Deduct	-189.27	
For Class 54 Rating, Add	267.92	
For Class 55 Rating, Add	403.35	
For Class 56 Rating, Add	537.06	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,645.01	543.87
For Class 52 Rating, Deduct	-200.31	
For Class 54 Rating, Add	283.03	
For Class 55 Rating, Add	425.85	
For Class 56 Rating, Add	566.85	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA	12"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,750.79	547.47
			<i>For Class 52 Rating, Deduct</i>	-211.34	
			<i>For Class 54 Rating, Add</i>	298.15	
			<i>For Class 55 Rating, Add</i>	448.36	
			<i>For Class 56 Rating, Add</i>	596.65	
40 05 19 00-0729	EA	12"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.57	551.07
			<i>For Class 52 Rating, Deduct</i>	-222.38	
			<i>For Class 54 Rating, Add</i>	313.26	
			<i>For Class 55 Rating, Add</i>	470.86	
			<i>For Class 56 Rating, Add</i>	626.44	
40 05 19 00-0730	EA	12"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,962.36	554.67
			<i>For Class 52 Rating, Deduct</i>	-233.41	
			<i>For Class 54 Rating, Add</i>	328.38	
			<i>For Class 55 Rating, Add</i>	493.36	
			<i>For Class 56 Rating, Add</i>	656.23	
40 05 19 00-0731	EA	12"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,068.15	558.27
			<i>For Class 52 Rating, Deduct</i>	-244.45	
			<i>For Class 54 Rating, Add</i>	343.49	
			<i>For Class 55 Rating, Add</i>	515.87	
			<i>For Class 56 Rating, Add</i>	686.02	
40 05 19 00-0732	EA	12"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,173.92	561.88
			<i>For Class 52 Rating, Deduct</i>	-255.49	
			<i>For Class 54 Rating, Add</i>	358.61	
			<i>For Class 55 Rating, Add</i>	538.37	
			<i>For Class 56 Rating, Add</i>	715.81	
40 05 19 00-0733	EA	12"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,279.71	565.48
			<i>For Class 52 Rating, Deduct</i>	-266.52	
			<i>For Class 54 Rating, Add</i>	373.72	
			<i>For Class 55 Rating, Add</i>	560.88	
			<i>For Class 56 Rating, Add</i>	745.61	
40 05 19 00-0734	EA	12"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,385.49	569.08
			<i>For Class 52 Rating, Deduct</i>	-277.56	
			<i>For Class 54 Rating, Add</i>	388.83	
			<i>For Class 55 Rating, Add</i>	583.38	
			<i>For Class 56 Rating, Add</i>	775.40	
40 05 19 00-0735	EA	12"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,491.28	572.68
			<i>For Class 52 Rating, Deduct</i>	-288.59	
			<i>For Class 54 Rating, Add</i>	403.95	
			<i>For Class 55 Rating, Add</i>	605.88	
			<i>For Class 56 Rating, Add</i>	805.19	
40 05 19 00-0736	EA	12"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,597.06	576.28
			<i>For Class 52 Rating, Deduct</i>	-299.63	
			<i>For Class 54 Rating, Add</i>	419.06	
			<i>For Class 55 Rating, Add</i>	628.39	
			<i>For Class 56 Rating, Add</i>	834.98	
40 05 19 00-0737	EA	12"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,702.85	579.88
			<i>For Class 52 Rating, Deduct</i>	-310.67	
			<i>For Class 54 Rating, Add</i>	434.18	
			<i>For Class 55 Rating, Add</i>	650.89	
			<i>For Class 56 Rating, Add</i>	864.78	
40 05 19 00-0738	EA	12"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,808.62	583.49
			<i>For Class 52 Rating, Deduct</i>	-321.70	
			<i>For Class 54 Rating, Add</i>	449.29	
			<i>For Class 55 Rating, Add</i>	673.39	
			<i>For Class 56 Rating, Add</i>	894.57	
40 05 19 00-0739	EA	12"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,914.41	587.09
			<i>For Class 52 Rating, Deduct</i>	-332.74	
			<i>For Class 54 Rating, Add</i>	464.41	
			<i>For Class 55 Rating, Add</i>	695.90	
			<i>For Class 56 Rating, Add</i>	924.36	
40 05 19 00-0740	EA	12"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,020.19	590.69
			<i>For Class 52 Rating, Deduct</i>	-343.77	
			<i>For Class 54 Rating, Add</i>	479.52	
			<i>For Class 55 Rating, Add</i>	718.40	
			<i>For Class 56 Rating, Add</i>	954.15	
40 05 19 00-0741	EA	12"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,125.97	594.29
			<i>For Class 52 Rating, Deduct</i>	-354.81	
			<i>For Class 54 Rating, Add</i>	494.63	
			<i>For Class 55 Rating, Add</i>	740.90	
			<i>For Class 56 Rating, Add</i>	983.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,231.75	597.89
<i>For Class 52 Rating, Deduct</i>	-365.84	
<i>For Class 54 Rating, Add</i>	509.75	
<i>For Class 55 Rating, Add</i>	763.41	
<i>For Class 56 Rating, Add</i>	1,013.74	
40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,337.54	601.50
<i>For Class 52 Rating, Deduct</i>	-376.88	
<i>For Class 54 Rating, Add</i>	524.86	
<i>For Class 55 Rating, Add</i>	785.91	
<i>For Class 56 Rating, Add</i>	1,043.53	
40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,443.32	605.10
<i>For Class 52 Rating, Deduct</i>	-387.92	
<i>For Class 54 Rating, Add</i>	539.98	
<i>For Class 55 Rating, Add</i>	808.42	
<i>For Class 56 Rating, Add</i>	1,073.33	
40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,549.10	608.69
<i>For Class 52 Rating, Deduct</i>	-398.95	
<i>For Class 54 Rating, Add</i>	555.09	
<i>For Class 55 Rating, Add</i>	830.92	
<i>For Class 56 Rating, Add</i>	1,103.12	
40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,654.89	612.30
<i>For Class 52 Rating, Deduct</i>	-409.99	
<i>For Class 54 Rating, Add</i>	570.21	
<i>For Class 55 Rating, Add</i>	853.42	
<i>For Class 56 Rating, Add</i>	1,132.91	
40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,760.67	615.90
<i>For Class 52 Rating, Deduct</i>	-421.02	
<i>For Class 54 Rating, Add</i>	585.32	
<i>For Class 55 Rating, Add</i>	875.92	
<i>For Class 56 Rating, Add</i>	1,162.70	
40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,866.45	619.50
<i>For Class 52 Rating, Deduct</i>	-432.06	
<i>For Class 54 Rating, Add</i>	600.44	
<i>For Class 55 Rating, Add</i>	898.43	
<i>For Class 56 Rating, Add</i>	1,192.49	
40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,972.23	623.11
<i>For Class 52 Rating, Deduct</i>	-443.09	
<i>For Class 54 Rating, Add</i>	615.55	
<i>For Class 55 Rating, Add</i>	920.93	
<i>For Class 56 Rating, Add</i>	1,222.29	
40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,078.02	626.71
<i>For Class 52 Rating, Deduct</i>	-454.13	
<i>For Class 54 Rating, Add</i>	630.66	
<i>For Class 55 Rating, Add</i>	943.44	
<i>For Class 56 Rating, Add</i>	1,252.08	
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,183.79	630.31
<i>For Class 52 Rating, Deduct</i>	-465.17	
<i>For Class 54 Rating, Add</i>	645.78	
<i>For Class 55 Rating, Add</i>	965.94	
<i>For Class 56 Rating, Add</i>	1,281.87	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,289.58	633.91
<i>For Class 52 Rating, Deduct</i>	-476.20	
<i>For Class 54 Rating, Add</i>	660.89	
<i>For Class 55 Rating, Add</i>	988.44	
<i>For Class 56 Rating, Add</i>	1,311.66	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,395.36	637.51
<i>For Class 52 Rating, Deduct</i>	-487.24	
<i>For Class 54 Rating, Add</i>	676.01	
<i>For Class 55 Rating, Add</i>	1,010.95	
<i>For Class 56 Rating, Add</i>	1,341.46	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,501.14	641.12
<i>For Class 52 Rating, Deduct</i>	-498.27	
<i>For Class 54 Rating, Add</i>	691.12	
<i>For Class 55 Rating, Add</i>	1,033.45	
<i>For Class 56 Rating, Add</i>	1,371.25	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0756	EA		14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,988.78	605.10
			<i>For Class 52 Rating, Deduct</i>	-117.92	
			<i>For Class 54 Rating, Add</i>	171.80	
			<i>For Class 55 Rating, Add</i>	261.05	
			<i>For Class 56 Rating, Add</i>	349.24	
40 05 19 00-0757	EA		14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,116.55	608.69
			<i>For Class 52 Rating, Deduct</i>	-131.37	
			<i>For Class 54 Rating, Add</i>	190.21	
			<i>For Class 55 Rating, Add</i>	288.46	
			<i>For Class 56 Rating, Add</i>	385.51	
40 05 19 00-0758	EA		14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,244.33	612.30
			<i>For Class 52 Rating, Deduct</i>	-144.83	
			<i>For Class 54 Rating, Add</i>	208.62	
			<i>For Class 55 Rating, Add</i>	315.87	
			<i>For Class 56 Rating, Add</i>	421.80	
40 05 19 00-0759	EA		14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,372.10	615.90
			<i>For Class 52 Rating, Deduct</i>	-158.28	
			<i>For Class 54 Rating, Add</i>	227.03	
			<i>For Class 55 Rating, Add</i>	343.27	
			<i>For Class 56 Rating, Add</i>	458.07	
40 05 19 00-0760	EA		14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,499.87	619.50
			<i>For Class 52 Rating, Deduct</i>	-171.74	
			<i>For Class 54 Rating, Add</i>	245.45	
			<i>For Class 55 Rating, Add</i>	370.68	
			<i>For Class 56 Rating, Add</i>	494.35	
40 05 19 00-0761	EA		14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,627.64	623.11
			<i>For Class 52 Rating, Deduct</i>	-185.19	
			<i>For Class 54 Rating, Add</i>	263.86	
			<i>For Class 55 Rating, Add</i>	398.09	
			<i>For Class 56 Rating, Add</i>	530.63	
40 05 19 00-0762	EA		14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,755.42	626.71
			<i>For Class 52 Rating, Deduct</i>	-198.64	
			<i>For Class 54 Rating, Add</i>	282.27	
			<i>For Class 55 Rating, Add</i>	425.50	
			<i>For Class 56 Rating, Add</i>	566.91	
40 05 19 00-0763	EA		14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,883.18	630.31
			<i>For Class 52 Rating, Deduct</i>	-212.10	
			<i>For Class 54 Rating, Add</i>	300.69	
			<i>For Class 55 Rating, Add</i>	452.90	
			<i>For Class 56 Rating, Add</i>	603.19	
40 05 19 00-0764	EA		14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,010.96	633.91
			<i>For Class 52 Rating, Deduct</i>	-225.55	
			<i>For Class 54 Rating, Add</i>	319.10	
			<i>For Class 55 Rating, Add</i>	480.31	
			<i>For Class 56 Rating, Add</i>	639.47	
40 05 19 00-0765	EA		14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,138.73	637.51
			<i>For Class 52 Rating, Deduct</i>	-239.01	
			<i>For Class 54 Rating, Add</i>	337.51	
			<i>For Class 55 Rating, Add</i>	507.72	
			<i>For Class 56 Rating, Add</i>	675.75	
40 05 19 00-0766	EA		14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,266.49	641.12
			<i>For Class 52 Rating, Deduct</i>	-252.46	
			<i>For Class 54 Rating, Add</i>	355.92	
			<i>For Class 55 Rating, Add</i>	535.12	
			<i>For Class 56 Rating, Add</i>	712.03	
40 05 19 00-0767	EA		14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,394.27	644.72
			<i>For Class 52 Rating, Deduct</i>	-265.92	
			<i>For Class 54 Rating, Add</i>	374.34	
			<i>For Class 55 Rating, Add</i>	562.53	
			<i>For Class 56 Rating, Add</i>	748.31	
40 05 19 00-0768	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,522.04	648.31
			<i>For Class 52 Rating, Deduct</i>	-279.37	
			<i>For Class 54 Rating, Add</i>	392.75	
			<i>For Class 55 Rating, Add</i>	589.94	
			<i>For Class 56 Rating, Add</i>	784.59	
40 05 19 00-0769	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,649.81	651.92
			<i>For Class 52 Rating, Deduct</i>	-292.83	
			<i>For Class 54 Rating, Add</i>	411.16	
			<i>For Class 55 Rating, Add</i>	617.35	
			<i>For Class 56 Rating, Add</i>	820.87	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0770 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,777.58	655.52
<i>For Class 52 Rating, Deduct</i>	-306.28	
<i>For Class 54 Rating, Add</i>	429.57	
<i>For Class 55 Rating, Add</i>	644.75	
<i>For Class 56 Rating, Add</i>	857.14	
40 05 19 00-0771 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,905.36	659.12
<i>For Class 52 Rating, Deduct</i>	-319.74	
<i>For Class 54 Rating, Add</i>	447.99	
<i>For Class 55 Rating, Add</i>	672.16	
<i>For Class 56 Rating, Add</i>	893.43	
40 05 19 00-0772 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,033.12	662.73
<i>For Class 52 Rating, Deduct</i>	-333.19	
<i>For Class 54 Rating, Add</i>	466.40	
<i>For Class 55 Rating, Add</i>	699.57	
<i>For Class 56 Rating, Add</i>	929.70	
40 05 19 00-0773 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,160.90	666.33
<i>For Class 52 Rating, Deduct</i>	-346.65	
<i>For Class 54 Rating, Add</i>	484.81	
<i>For Class 55 Rating, Add</i>	726.97	
<i>For Class 56 Rating, Add</i>	965.98	
40 05 19 00-0774 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,288.67	669.93
<i>For Class 52 Rating, Deduct</i>	-360.10	
<i>For Class 54 Rating, Add</i>	503.22	
<i>For Class 55 Rating, Add</i>	754.38	
<i>For Class 56 Rating, Add</i>	1,002.26	
40 05 19 00-0775 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,416.44	673.53
<i>For Class 52 Rating, Deduct</i>	-373.55	
<i>For Class 54 Rating, Add</i>	521.64	
<i>For Class 55 Rating, Add</i>	781.79	
<i>For Class 56 Rating, Add</i>	1,038.54	
40 05 19 00-0776 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,544.22	677.13
<i>For Class 52 Rating, Deduct</i>	-387.01	
<i>For Class 54 Rating, Add</i>	540.05	
<i>For Class 55 Rating, Add</i>	809.20	
<i>For Class 56 Rating, Add</i>	1,074.82	
40 05 19 00-0777 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,671.99	680.74
<i>For Class 52 Rating, Deduct</i>	-400.46	
<i>For Class 54 Rating, Add</i>	558.46	
<i>For Class 55 Rating, Add</i>	836.60	
<i>For Class 56 Rating, Add</i>	1,111.10	
40 05 19 00-0778 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,799.77	684.34
<i>For Class 52 Rating, Deduct</i>	-413.92	
<i>For Class 54 Rating, Add</i>	576.88	
<i>For Class 55 Rating, Add</i>	864.01	
<i>For Class 56 Rating, Add</i>	1,147.38	
40 05 19 00-0779 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,927.53	687.93
<i>For Class 52 Rating, Deduct</i>	-427.37	
<i>For Class 54 Rating, Add</i>	595.29	
<i>For Class 55 Rating, Add</i>	891.42	
<i>For Class 56 Rating, Add</i>	1,183.66	
40 05 19 00-0780 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,055.31	691.54
<i>For Class 52 Rating, Deduct</i>	-440.83	
<i>For Class 54 Rating, Add</i>	613.70	
<i>For Class 55 Rating, Add</i>	918.82	
<i>For Class 56 Rating, Add</i>	1,219.94	
40 05 19 00-0781 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,183.08	695.14
<i>For Class 52 Rating, Deduct</i>	-454.28	
<i>For Class 54 Rating, Add</i>	632.11	
<i>For Class 55 Rating, Add</i>	946.23	
<i>For Class 56 Rating, Add</i>	1,256.22	
40 05 19 00-0782 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,310.85	698.74
<i>For Class 52 Rating, Deduct</i>	-467.74	
<i>For Class 54 Rating, Add</i>	650.53	
<i>For Class 55 Rating, Add</i>	973.64	
<i>For Class 56 Rating, Add</i>	1,292.50	
40 05 19 00-0783 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,438.62	702.35
<i>For Class 52 Rating, Deduct</i>	-481.19	
<i>For Class 54 Rating, Add</i>	668.94	
<i>For Class 55 Rating, Add</i>	1,001.04	
<i>For Class 56 Rating, Add</i>	1,328.78	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784 EA 14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,566.40	705.94
For Class 52 Rating, Deduct	-494.65	
For Class 54 Rating, Add	687.35	
For Class 55 Rating, Add	1,028.45	
For Class 56 Rating, Add	1,365.06	
40 05 19 00-0785 EA 14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,694.16	709.55
For Class 52 Rating, Deduct	-508.10	
For Class 54 Rating, Add	705.76	
For Class 55 Rating, Add	1,055.86	
For Class 56 Rating, Add	1,401.33	
40 05 19 00-0786 EA 14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,821.93	713.15
For Class 52 Rating, Deduct	-521.55	
For Class 54 Rating, Add	724.18	
For Class 55 Rating, Add	1,083.26	
For Class 56 Rating, Add	1,437.61	
40 05 19 00-0787 EA 14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,949.71	716.75
For Class 52 Rating, Deduct	-535.01	
For Class 54 Rating, Add	742.59	
For Class 55 Rating, Add	1,110.67	
For Class 56 Rating, Add	1,473.89	
40 05 19 00-0788 EA 14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,077.47	720.36
For Class 52 Rating, Deduct	-548.46	
For Class 54 Rating, Add	761.00	
For Class 55 Rating, Add	1,138.08	
For Class 56 Rating, Add	1,510.17	
40 05 19 00-0789 EA 14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,205.25	723.96
For Class 52 Rating, Deduct	-561.92	
For Class 54 Rating, Add	779.42	
For Class 55 Rating, Add	1,165.49	
For Class 56 Rating, Add	1,546.45	
40 05 19 00-0790 EA 14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,333.02	727.55
For Class 52 Rating, Deduct	-575.37	
For Class 54 Rating, Add	797.83	
For Class 55 Rating, Add	1,192.89	
For Class 56 Rating, Add	1,582.73	
40 05 19 00-0791 EA 14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,460.80	731.16
For Class 52 Rating, Deduct	-588.83	
For Class 54 Rating, Add	816.24	
For Class 55 Rating, Add	1,220.30	
For Class 56 Rating, Add	1,619.01	
40 05 19 00-0792 EA 14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,588.56	734.76
For Class 52 Rating, Deduct	-602.28	
For Class 54 Rating, Add	834.65	
For Class 55 Rating, Add	1,247.71	
For Class 56 Rating, Add	1,655.29	
40 05 19 00-0793 EA 14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,716.34	738.36
For Class 52 Rating, Deduct	-615.74	
For Class 54 Rating, Add	853.07	
For Class 55 Rating, Add	1,275.12	
For Class 56 Rating, Add	1,691.57	
40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0795 EA 16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,316.29	691.54
For Class 52 Rating, Deduct	-139.54	
For Class 54 Rating, Add	202.85	
For Class 55 Rating, Add	308.02	
For Class 56 Rating, Add	411.93	
40 05 19 00-0796 EA 16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,464.68	695.14
For Class 52 Rating, Deduct	-155.26	
For Class 54 Rating, Add	224.35	
For Class 55 Rating, Add	340.03	
For Class 56 Rating, Add	454.29	
40 05 19 00-0797 EA 16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,613.06	698.74
For Class 52 Rating, Deduct	-170.98	
For Class 54 Rating, Add	245.86	
For Class 55 Rating, Add	372.03	
For Class 56 Rating, Add	496.65	



Process Interconnections 40 Common Work Results For Process Interconnections 40 05 Ductile Iron Process Pipe 40 05 19	40
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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,761.45	702.35
<i>For Class 52 Rating, Deduct</i>	-186.70	
<i>For Class 54 Rating, Add</i>	267.36	
<i>For Class 55 Rating, Add</i>	404.04	
<i>For Class 56 Rating, Add</i>	539.01	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,909.83	705.94
<i>For Class 52 Rating, Deduct</i>	-202.42	
<i>For Class 54 Rating, Add</i>	288.87	
<i>For Class 55 Rating, Add</i>	436.04	
<i>For Class 56 Rating, Add</i>	581.37	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,058.21	709.55
<i>For Class 52 Rating, Deduct</i>	-218.15	
<i>For Class 54 Rating, Add</i>	310.37	
<i>For Class 55 Rating, Add</i>	468.04	
<i>For Class 56 Rating, Add</i>	623.73	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,206.60	713.15
<i>For Class 52 Rating, Deduct</i>	-233.87	
<i>For Class 54 Rating, Add</i>	331.88	
<i>For Class 55 Rating, Add</i>	500.05	
<i>For Class 56 Rating, Add</i>	666.09	
40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,354.99	716.75
<i>For Class 52 Rating, Deduct</i>	-249.59	
<i>For Class 54 Rating, Add</i>	353.38	
<i>For Class 55 Rating, Add</i>	532.05	
<i>For Class 56 Rating, Add</i>	708.45	
40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,503.37	720.36
<i>For Class 52 Rating, Deduct</i>	-265.31	
<i>For Class 54 Rating, Add</i>	374.89	
<i>For Class 55 Rating, Add</i>	564.05	
<i>For Class 56 Rating, Add</i>	750.81	
40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,638.02	723.96
<i>For Class 52 Rating, Deduct</i>	-279.52	
<i>For Class 54 Rating, Add</i>	394.33	
<i>For Class 55 Rating, Add</i>	593.00	
<i>For Class 56 Rating, Add</i>	789.12	
40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,800.15	727.55
<i>For Class 52 Rating, Deduct</i>	-296.76	
<i>For Class 54 Rating, Add</i>	417.90	
<i>For Class 55 Rating, Add</i>	628.06	
<i>For Class 56 Rating, Add</i>	835.53	
40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,948.54	731.16
<i>For Class 52 Rating, Deduct</i>	-312.48	
<i>For Class 54 Rating, Add</i>	439.40	
<i>For Class 55 Rating, Add</i>	660.07	
<i>For Class 56 Rating, Add</i>	877.89	
40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,096.92	734.76
<i>For Class 52 Rating, Deduct</i>	-328.20	
<i>For Class 54 Rating, Add</i>	460.91	
<i>For Class 55 Rating, Add</i>	692.07	
<i>For Class 56 Rating, Add</i>	920.25	
40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,245.31	738.36
<i>For Class 52 Rating, Deduct</i>	-343.92	
<i>For Class 54 Rating, Add</i>	482.41	
<i>For Class 55 Rating, Add</i>	724.08	
<i>For Class 56 Rating, Add</i>	962.62	
40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,393.70	741.97
<i>For Class 52 Rating, Deduct</i>	-359.65	
<i>For Class 54 Rating, Add</i>	503.92	
<i>For Class 55 Rating, Add</i>	756.08	
<i>For Class 56 Rating, Add</i>	1,004.98	
40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,542.08	745.56
<i>For Class 52 Rating, Deduct</i>	-375.37	
<i>For Class 54 Rating, Add</i>	525.42	
<i>For Class 55 Rating, Add</i>	788.09	
<i>For Class 56 Rating, Add</i>	1,047.34	
40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,690.47	749.16
<i>For Class 52 Rating, Deduct</i>	-391.09	
<i>For Class 54 Rating, Add</i>	546.93	
<i>For Class 55 Rating, Add</i>	820.09	
<i>For Class 56 Rating, Add</i>	1,089.70	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812 EA 16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,838.86	752.77
For Class 52 Rating, Deduct	-406.81	
For Class 54 Rating, Add	568.43	
For Class 55 Rating, Add	852.09	
For Class 56 Rating, Add	1,132.06	
40 05 19 00-0813 EA 16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,987.23	756.37
For Class 52 Rating, Deduct	-422.53	
For Class 54 Rating, Add	589.94	
For Class 55 Rating, Add	884.10	
For Class 56 Rating, Add	1,174.42	
40 05 19 00-0814 EA 16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,135.62	759.98
For Class 52 Rating, Deduct	-438.26	
For Class 54 Rating, Add	611.44	
For Class 55 Rating, Add	916.10	
For Class 56 Rating, Add	1,216.78	
40 05 19 00-0815 EA 16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,284.01	763.57
For Class 52 Rating, Deduct	-453.98	
For Class 54 Rating, Add	632.95	
For Class 55 Rating, Add	948.11	
For Class 56 Rating, Add	1,259.14	
40 05 19 00-0816 EA 16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,432.39	767.17
For Class 52 Rating, Deduct	-469.70	
For Class 54 Rating, Add	654.45	
For Class 55 Rating, Add	980.11	
For Class 56 Rating, Add	1,301.50	
40 05 19 00-0817 EA 16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,580.78	770.78
For Class 52 Rating, Deduct	-485.42	
For Class 54 Rating, Add	675.96	
For Class 55 Rating, Add	1,012.11	
For Class 56 Rating, Add	1,343.86	
40 05 19 00-0818 EA 16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,729.17	774.38
For Class 52 Rating, Deduct	-501.15	
For Class 54 Rating, Add	697.46	
For Class 55 Rating, Add	1,044.12	
For Class 56 Rating, Add	1,386.22	
40 05 19 00-0819 EA 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.56	777.98
For Class 52 Rating, Deduct	-516.87	
For Class 54 Rating, Add	718.97	
For Class 55 Rating, Add	1,076.12	
For Class 56 Rating, Add	1,428.58	
40 05 19 00-0820 EA 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,025.95	781.59
For Class 52 Rating, Deduct	-532.59	
For Class 54 Rating, Add	740.47	
For Class 55 Rating, Add	1,108.13	
For Class 56 Rating, Add	1,470.94	
40 05 19 00-0821 EA 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,174.34	785.18
For Class 52 Rating, Deduct	-548.31	
For Class 54 Rating, Add	761.98	
For Class 55 Rating, Add	1,140.13	
For Class 56 Rating, Add	1,513.30	
40 05 19 00-0822 EA 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,322.72	788.78
For Class 52 Rating, Deduct	-564.03	
For Class 54 Rating, Add	783.48	
For Class 55 Rating, Add	1,172.14	
For Class 56 Rating, Add	1,555.66	
40 05 19 00-0823 EA 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,471.11	792.39
For Class 52 Rating, Deduct	-579.76	
For Class 54 Rating, Add	804.99	
For Class 55 Rating, Add	1,204.14	
For Class 56 Rating, Add	1,598.02	
40 05 19 00-0824 EA 16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,619.50	795.99
For Class 52 Rating, Deduct	-595.48	
For Class 54 Rating, Add	826.49	
For Class 55 Rating, Add	1,236.14	
For Class 56 Rating, Add	1,640.39	
40 05 19 00-0825 EA 16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,767.89	799.60
For Class 52 Rating, Deduct	-611.20	
For Class 54 Rating, Add	848.00	
For Class 55 Rating, Add	1,268.15	
For Class 56 Rating, Add	1,682.75	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,916.26	803.19
<i>For Class 52 Rating, Deduct</i>	-626.92	
<i>For Class 54 Rating, Add</i>	869.50	
<i>For Class 55 Rating, Add</i>	1,300.15	
<i>For Class 56 Rating, Add</i>	1,725.10	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,064.65	806.79
<i>For Class 52 Rating, Deduct</i>	-642.65	
<i>For Class 54 Rating, Add</i>	891.00	
<i>For Class 55 Rating, Add</i>	1,332.16	
<i>For Class 56 Rating, Add</i>	1,767.46	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,213.04	810.40
<i>For Class 52 Rating, Deduct</i>	-658.37	
<i>For Class 54 Rating, Add</i>	912.51	
<i>For Class 55 Rating, Add</i>	1,364.16	
<i>For Class 56 Rating, Add</i>	1,809.83	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,361.42	814.00
<i>For Class 52 Rating, Deduct</i>	-674.09	
<i>For Class 54 Rating, Add</i>	934.01	
<i>For Class 55 Rating, Add</i>	1,396.16	
<i>For Class 56 Rating, Add</i>	1,852.19	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,509.81	817.60
<i>For Class 52 Rating, Deduct</i>	-689.81	
<i>For Class 54 Rating, Add</i>	955.52	
<i>For Class 55 Rating, Add</i>	1,428.17	
<i>For Class 56 Rating, Add</i>	1,894.55	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,658.20	821.20
<i>For Class 52 Rating, Deduct</i>	-705.53	
<i>For Class 54 Rating, Add</i>	977.02	
<i>For Class 55 Rating, Add</i>	1,460.17	
<i>For Class 56 Rating, Add</i>	1,936.91	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,806.58	824.80
<i>For Class 52 Rating, Deduct</i>	-721.26	
<i>For Class 54 Rating, Add</i>	998.53	
<i>For Class 55 Rating, Add</i>	1,492.18	
<i>For Class 56 Rating, Add</i>	1,979.27	
40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,685.82	779.42
<i>For Class 52 Rating, Deduct</i>	-165.54	
<i>For Class 54 Rating, Add</i>	239.90	
<i>For Class 55 Rating, Add</i>	363.93	
<i>For Class 56 Rating, Add</i>	486.45	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,856.20	783.03
<i>For Class 52 Rating, Deduct</i>	-183.68	
<i>For Class 54 Rating, Add</i>	264.71	
<i>For Class 55 Rating, Add</i>	400.84	
<i>For Class 56 Rating, Add</i>	535.30	
40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,026.57	786.63
<i>For Class 52 Rating, Deduct</i>	-201.82	
<i>For Class 54 Rating, Add</i>	289.51	
<i>For Class 55 Rating, Add</i>	437.75	
<i>For Class 56 Rating, Add</i>	584.15	
40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,196.95	790.23
<i>For Class 52 Rating, Deduct</i>	-219.96	
<i>For Class 54 Rating, Add</i>	314.31	
<i>For Class 55 Rating, Add</i>	474.66	
<i>For Class 56 Rating, Add</i>	633.00	
40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,367.32	793.84
<i>For Class 52 Rating, Deduct</i>	-238.10	
<i>For Class 54 Rating, Add</i>	339.12	
<i>For Class 55 Rating, Add</i>	511.56	
<i>For Class 56 Rating, Add</i>	681.84	
40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,537.70	797.43
<i>For Class 52 Rating, Deduct</i>	-256.24	
<i>For Class 54 Rating, Add</i>	363.92	
<i>For Class 55 Rating, Add</i>	548.47	
<i>For Class 56 Rating, Add</i>	730.69	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,708.07	801.04
		<i>For Class 52 Rating, Deduct</i>		-274.38	
		<i>For Class 54 Rating, Add</i>		388.72	
		<i>For Class 55 Rating, Add</i>		585.38	
		<i>For Class 56 Rating, Add</i>		779.54	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,878.45	804.64
		<i>For Class 52 Rating, Deduct</i>		-292.52	
		<i>For Class 54 Rating, Add</i>		413.53	
		<i>For Class 55 Rating, Add</i>		622.29	
		<i>For Class 56 Rating, Add</i>		828.39	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,048.83	808.24
		<i>For Class 52 Rating, Deduct</i>		-310.67	
		<i>For Class 54 Rating, Add</i>		438.33	
		<i>For Class 55 Rating, Add</i>		659.19	
		<i>For Class 56 Rating, Add</i>		877.23	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,219.20	811.85
		<i>For Class 52 Rating, Deduct</i>		-328.81	
		<i>For Class 54 Rating, Add</i>		463.13	
		<i>For Class 55 Rating, Add</i>		696.10	
		<i>For Class 56 Rating, Add</i>		926.08	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,389.57	815.44
		<i>For Class 52 Rating, Deduct</i>		-346.95	
		<i>For Class 54 Rating, Add</i>		487.94	
		<i>For Class 55 Rating, Add</i>		733.01	
		<i>For Class 56 Rating, Add</i>		974.93	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,559.96	819.04
		<i>For Class 52 Rating, Deduct</i>		-365.09	
		<i>For Class 54 Rating, Add</i>		512.74	
		<i>For Class 55 Rating, Add</i>		769.92	
		<i>For Class 56 Rating, Add</i>		1,023.77	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,730.33	822.65
		<i>For Class 52 Rating, Deduct</i>		-383.23	
		<i>For Class 54 Rating, Add</i>		537.54	
		<i>For Class 55 Rating, Add</i>		806.82	
		<i>For Class 56 Rating, Add</i>		1,072.62	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,900.71	826.25
		<i>For Class 52 Rating, Deduct</i>		-401.37	
		<i>For Class 54 Rating, Add</i>		562.35	
		<i>For Class 55 Rating, Add</i>		843.73	
		<i>For Class 56 Rating, Add</i>		1,121.47	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,071.09	829.85
		<i>For Class 52 Rating, Deduct</i>		-419.51	
		<i>For Class 54 Rating, Add</i>		587.15	
		<i>For Class 55 Rating, Add</i>		880.64	
		<i>For Class 56 Rating, Add</i>		1,170.32	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,241.46	833.46
		<i>For Class 52 Rating, Deduct</i>		-437.65	
		<i>For Class 54 Rating, Add</i>		611.95	
		<i>For Class 55 Rating, Add</i>		917.55	
		<i>For Class 56 Rating, Add</i>		1,219.17	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,411.83	837.05
		<i>For Class 52 Rating, Deduct</i>		-455.79	
		<i>For Class 54 Rating, Add</i>		636.75	
		<i>For Class 55 Rating, Add</i>		954.45	
		<i>For Class 56 Rating, Add</i>		1,268.01	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,582.21	840.66
		<i>For Class 52 Rating, Deduct</i>		-473.93	
		<i>For Class 54 Rating, Add</i>		661.56	
		<i>For Class 55 Rating, Add</i>		991.36	
		<i>For Class 56 Rating, Add</i>		1,316.86	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,752.58	844.26
		<i>For Class 52 Rating, Deduct</i>		-492.08	
		<i>For Class 54 Rating, Add</i>		686.36	
		<i>For Class 55 Rating, Add</i>		1,028.27	
		<i>For Class 56 Rating, Add</i>		1,365.71	
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,922.96	847.86
		<i>For Class 52 Rating, Deduct</i>		-510.22	
		<i>For Class 54 Rating, Add</i>		711.17	
		<i>For Class 55 Rating, Add</i>		1,065.18	
		<i>For Class 56 Rating, Add</i>		1,414.55	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,093.34	851.47
For Class 52 Rating, Deduct	-528.36	
For Class 54 Rating, Add	735.97	
For Class 55 Rating, Add	1,102.09	
For Class 56 Rating, Add	1,463.40	
40 05 19 00-0855 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,263.72	855.06
For Class 52 Rating, Deduct	-546.50	
For Class 54 Rating, Add	760.77	
For Class 55 Rating, Add	1,139.00	
For Class 56 Rating, Add	1,512.25	
40 05 19 00-0856 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,434.09	858.66
For Class 52 Rating, Deduct	-564.64	
For Class 54 Rating, Add	785.58	
For Class 55 Rating, Add	1,175.90	
For Class 56 Rating, Add	1,561.10	
40 05 19 00-0857 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,604.46	862.27
For Class 52 Rating, Deduct	-582.78	
For Class 54 Rating, Add	810.38	
For Class 55 Rating, Add	1,212.81	
For Class 56 Rating, Add	1,609.94	
40 05 19 00-0858 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,774.84	865.87
For Class 52 Rating, Deduct	-600.92	
For Class 54 Rating, Add	835.18	
For Class 55 Rating, Add	1,249.72	
For Class 56 Rating, Add	1,658.79	
40 05 19 00-0859 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,945.21	869.47
For Class 52 Rating, Deduct	-619.06	
For Class 54 Rating, Add	859.98	
For Class 55 Rating, Add	1,286.63	
For Class 56 Rating, Add	1,707.64	
40 05 19 00-0860 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,115.59	873.07
For Class 52 Rating, Deduct	-637.20	
For Class 54 Rating, Add	884.79	
For Class 55 Rating, Add	1,323.53	
For Class 56 Rating, Add	1,756.49	
40 05 19 00-0861 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,285.97	876.67
For Class 52 Rating, Deduct	-655.34	
For Class 54 Rating, Add	909.59	
For Class 55 Rating, Add	1,360.44	
For Class 56 Rating, Add	1,805.33	
40 05 19 00-0862 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,456.34	880.28
For Class 52 Rating, Deduct	-673.49	
For Class 54 Rating, Add	934.39	
For Class 55 Rating, Add	1,397.35	
For Class 56 Rating, Add	1,854.18	
40 05 19 00-0863 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,626.71	883.88
For Class 52 Rating, Deduct	-691.63	
For Class 54 Rating, Add	959.20	
For Class 55 Rating, Add	1,434.26	
For Class 56 Rating, Add	1,903.03	
40 05 19 00-0864 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,797.09	887.48
For Class 52 Rating, Deduct	-709.77	
For Class 54 Rating, Add	984.00	
For Class 55 Rating, Add	1,471.16	
For Class 56 Rating, Add	1,951.87	
40 05 19 00-0865 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,967.46	891.09
For Class 52 Rating, Deduct	-727.91	
For Class 54 Rating, Add	1,008.80	
For Class 55 Rating, Add	1,508.07	
For Class 56 Rating, Add	2,000.72	
40 05 19 00-0866 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,137.84	894.68
For Class 52 Rating, Deduct	-746.05	
For Class 54 Rating, Add	1,033.61	
For Class 55 Rating, Add	1,544.98	
For Class 56 Rating, Add	2,049.57	
40 05 19 00-0867 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,308.22	898.28
For Class 52 Rating, Deduct	-764.19	
For Class 54 Rating, Add	1,058.41	
For Class 55 Rating, Add	1,581.89	
For Class 56 Rating, Add	2,098.42	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,478.59	901.89
			<i>For Class 52 Rating, Deduct</i>	-782.33	
			<i>For Class 54 Rating, Add</i>	1,083.21	
			<i>For Class 55 Rating, Add</i>	1,618.80	
			<i>For Class 56 Rating, Add</i>	2,147.27	
40 05 19 00-0869	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,648.96	905.49
			<i>For Class 52 Rating, Deduct</i>	-800.47	
			<i>For Class 54 Rating, Add</i>	1,108.02	
			<i>For Class 55 Rating, Add</i>	1,655.70	
			<i>For Class 56 Rating, Add</i>	2,196.11	
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,819.34	909.09
			<i>For Class 52 Rating, Deduct</i>	-818.61	
			<i>For Class 54 Rating, Add</i>	1,132.82	
			<i>For Class 55 Rating, Add</i>	1,692.61	
			<i>For Class 56 Rating, Add</i>	2,244.96	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,989.72	912.69
			<i>For Class 52 Rating, Deduct</i>	-836.75	
			<i>For Class 54 Rating, Add</i>	1,157.62	
			<i>For Class 55 Rating, Add</i>	1,729.52	
			<i>For Class 56 Rating, Add</i>	2,293.81	
40 05 19 00-0872			20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,105.70	889.64
			<i>For Class 52 Rating, Deduct</i>	-193.35	
			<i>For Class 54 Rating, Add</i>	279.84	
			<i>For Class 55 Rating, Add</i>	424.33	
			<i>For Class 56 Rating, Add</i>	567.07	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,300.80	893.24
			<i>For Class 52 Rating, Deduct</i>	-214.22	
			<i>For Class 54 Rating, Add</i>	308.35	
			<i>For Class 55 Rating, Add</i>	466.75	
			<i>For Class 56 Rating, Add</i>	623.21	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,495.92	896.84
			<i>For Class 52 Rating, Deduct</i>	-235.08	
			<i>For Class 54 Rating, Add</i>	336.87	
			<i>For Class 55 Rating, Add</i>	509.18	
			<i>For Class 56 Rating, Add</i>	679.35	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,691.03	900.44
			<i>For Class 52 Rating, Deduct</i>	-255.94	
			<i>For Class 54 Rating, Add</i>	365.38	
			<i>For Class 55 Rating, Add</i>	551.60	
			<i>For Class 56 Rating, Add</i>	735.50	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,886.14	904.04
			<i>For Class 52 Rating, Deduct</i>	-276.80	
			<i>For Class 54 Rating, Add</i>	393.89	
			<i>For Class 55 Rating, Add</i>	594.03	
			<i>For Class 56 Rating, Add</i>	791.64	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,081.26	907.64
			<i>For Class 52 Rating, Deduct</i>	-297.66	
			<i>For Class 54 Rating, Add</i>	422.41	
			<i>For Class 55 Rating, Add</i>	636.45	
			<i>For Class 56 Rating, Add</i>	847.79	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,276.37	911.25
			<i>For Class 52 Rating, Deduct</i>	-318.53	
			<i>For Class 54 Rating, Add</i>	450.92	
			<i>For Class 55 Rating, Add</i>	678.88	
			<i>For Class 56 Rating, Add</i>	903.93	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,471.49	914.85
			<i>For Class 52 Rating, Deduct</i>	-339.39	
			<i>For Class 54 Rating, Add</i>	479.44	
			<i>For Class 55 Rating, Add</i>	721.30	
			<i>For Class 56 Rating, Add</i>	960.08	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,666.59	918.45
			<i>For Class 52 Rating, Deduct</i>	-360.25	
			<i>For Class 54 Rating, Add</i>	507.95	
			<i>For Class 55 Rating, Add</i>	763.72	
			<i>For Class 56 Rating, Add</i>	1,016.22	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,861.71	922.05
For Class 52 Rating, Deduct	-381.11	
For Class 54 Rating, Add	536.46	
For Class 55 Rating, Add	806.15	
For Class 56 Rating, Add	1,072.37	
40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,056.83	925.65
For Class 52 Rating, Deduct	-401.98	
For Class 54 Rating, Add	564.98	
For Class 55 Rating, Add	848.57	
For Class 56 Rating, Add	1,128.51	
40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,251.93	929.26
For Class 52 Rating, Deduct	-422.84	
For Class 54 Rating, Add	593.49	
For Class 55 Rating, Add	891.00	
For Class 56 Rating, Add	1,184.66	
40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,447.05	932.86
For Class 52 Rating, Deduct	-443.70	
For Class 54 Rating, Add	622.01	
For Class 55 Rating, Add	933.42	
For Class 56 Rating, Add	1,240.80	
40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,642.17	936.46
For Class 52 Rating, Deduct	-464.56	
For Class 54 Rating, Add	650.52	
For Class 55 Rating, Add	975.85	
For Class 56 Rating, Add	1,296.95	
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,837.27	940.06
For Class 52 Rating, Deduct	-485.42	
For Class 54 Rating, Add	679.03	
For Class 55 Rating, Add	1,018.27	
For Class 56 Rating, Add	1,353.09	
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,032.39	943.66
For Class 52 Rating, Deduct	-506.29	
For Class 54 Rating, Add	707.55	
For Class 55 Rating, Add	1,060.69	
For Class 56 Rating, Add	1,409.24	
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,227.50	947.26
For Class 52 Rating, Deduct	-527.15	
For Class 54 Rating, Add	736.06	
For Class 55 Rating, Add	1,103.12	
For Class 56 Rating, Add	1,465.38	
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,422.61	950.87
For Class 52 Rating, Deduct	-548.01	
For Class 54 Rating, Add	764.57	
For Class 55 Rating, Add	1,145.54	
For Class 56 Rating, Add	1,521.53	
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,617.73	954.47
For Class 52 Rating, Deduct	-568.87	
For Class 54 Rating, Add	793.09	
For Class 55 Rating, Add	1,187.97	
For Class 56 Rating, Add	1,577.67	
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,812.84	958.07
For Class 52 Rating, Deduct	-589.73	
For Class 54 Rating, Add	821.60	
For Class 55 Rating, Add	1,230.39	
For Class 56 Rating, Add	1,633.82	
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,007.95	961.67
For Class 52 Rating, Deduct	-610.60	
For Class 54 Rating, Add	850.12	
For Class 55 Rating, Add	1,272.82	
For Class 56 Rating, Add	1,689.96	
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,203.06	965.27
For Class 52 Rating, Deduct	-631.46	
For Class 54 Rating, Add	878.63	
For Class 55 Rating, Add	1,315.24	
For Class 56 Rating, Add	1,746.11	
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,398.18	968.88
For Class 52 Rating, Deduct	-652.32	
For Class 54 Rating, Add	907.14	
For Class 55 Rating, Add	1,357.66	
For Class 56 Rating, Add	1,802.25	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA	20"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,593.30	972.48
			For Class 52 Rating, Deduct	-673.18	
			For Class 54 Rating, Add	935.66	
			For Class 55 Rating, Add	1,400.09	
			For Class 56 Rating, Add	1,858.40	
40 05 19 00-0897	EA	20"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,788.40	976.07
			For Class 52 Rating, Deduct	-694.05	
			For Class 54 Rating, Add	964.17	
			For Class 55 Rating, Add	1,442.51	
			For Class 56 Rating, Add	1,914.54	
40 05 19 00-0898	EA	20"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,983.52	979.68
			For Class 52 Rating, Deduct	-714.91	
			For Class 54 Rating, Add	992.69	
			For Class 55 Rating, Add	1,484.94	
			For Class 56 Rating, Add	1,970.69	
40 05 19 00-0899	EA	20"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,178.64	983.28
			For Class 52 Rating, Deduct	-735.77	
			For Class 54 Rating, Add	1,021.20	
			For Class 55 Rating, Add	1,527.36	
			For Class 56 Rating, Add	2,026.84	
40 05 19 00-0900	EA	20"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,373.75	986.88
			For Class 52 Rating, Deduct	-756.63	
			For Class 54 Rating, Add	1,049.71	
			For Class 55 Rating, Add	1,569.79	
			For Class 56 Rating, Add	2,082.98	
40 05 19 00-0901	EA	20"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,568.87	990.49
			For Class 52 Rating, Deduct	-777.49	
			For Class 54 Rating, Add	1,078.23	
			For Class 55 Rating, Add	1,612.21	
			For Class 56 Rating, Add	2,139.12	
40 05 19 00-0902	EA	20"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,763.98	994.09
			For Class 52 Rating, Deduct	-798.36	
			For Class 54 Rating, Add	1,106.74	
			For Class 55 Rating, Add	1,654.63	
			For Class 56 Rating, Add	2,195.27	
40 05 19 00-0903	EA	20"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,959.09	997.69
			For Class 52 Rating, Deduct	-819.22	
			For Class 54 Rating, Add	1,135.26	
			For Class 55 Rating, Add	1,697.06	
			For Class 56 Rating, Add	2,251.41	
40 05 19 00-0904	EA	20"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,154.21	1,001.29
			For Class 52 Rating, Deduct	-840.08	
			For Class 54 Rating, Add	1,163.77	
			For Class 55 Rating, Add	1,739.48	
			For Class 56 Rating, Add	2,307.56	
40 05 19 00-0905	EA	20"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,349.32	1,004.89
			For Class 52 Rating, Deduct	-860.94	
			For Class 54 Rating, Add	1,192.28	
			For Class 55 Rating, Add	1,781.91	
			For Class 56 Rating, Add	2,363.70	
40 05 19 00-0906	EA	20"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,544.43	1,008.50
			For Class 52 Rating, Deduct	-881.81	
			For Class 54 Rating, Add	1,220.80	
			For Class 55 Rating, Add	1,824.33	
			For Class 56 Rating, Add	2,419.85	
40 05 19 00-0907	EA	20"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,739.54	1,012.10
			For Class 52 Rating, Deduct	-902.67	
			For Class 54 Rating, Add	1,249.31	
			For Class 55 Rating, Add	1,866.75	
			For Class 56 Rating, Add	2,475.99	
40 05 19 00-0908	EA	20"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,934.66	1,015.69
			For Class 52 Rating, Deduct	-923.53	
			For Class 54 Rating, Add	1,277.83	
			For Class 55 Rating, Add	1,909.18	
			For Class 56 Rating, Add	2,532.14	
40 05 19 00-0909	EA	20"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,129.77	1,019.30
			For Class 52 Rating, Deduct	-944.39	
			For Class 54 Rating, Add	1,306.34	
			For Class 55 Rating, Add	1,951.61	
			For Class 56 Rating, Add	2,588.29	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,324.88	1,022.90
For Class 52 Rating, Deduct	-965.25	
For Class 54 Rating, Add	1,334.85	
For Class 55 Rating, Add	1,994.03	
For Class 56 Rating, Add	2,644.43	
 40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,814.41	1,051.72
For Class 52 Rating, Deduct	-244.30	
For Class 54 Rating, Add	352.26	
For Class 55 Rating, Add	533.50	
For Class 56 Rating, Add	712.53	
40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,054.87	1,055.31
For Class 52 Rating, Deduct	-270.15	
For Class 54 Rating, Add	387.57	
For Class 55 Rating, Add	586.04	
For Class 56 Rating, Add	782.06	
40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,295.34	1,058.92
For Class 52 Rating, Deduct	-296.00	
For Class 54 Rating, Add	422.89	
For Class 55 Rating, Add	638.58	
For Class 56 Rating, Add	851.58	
40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,535.81	1,062.52
For Class 52 Rating, Deduct	-321.85	
For Class 54 Rating, Add	458.21	
For Class 55 Rating, Add	691.12	
For Class 56 Rating, Add	921.11	
40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,776.27	1,066.12
For Class 52 Rating, Deduct	-347.70	
For Class 54 Rating, Add	493.52	
For Class 55 Rating, Add	743.66	
For Class 56 Rating, Add	990.63	
40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,016.73	1,069.73
For Class 52 Rating, Deduct	-373.55	
For Class 54 Rating, Add	528.84	
For Class 55 Rating, Add	796.19	
For Class 56 Rating, Add	1,060.15	
40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,257.20	1,073.32
For Class 52 Rating, Deduct	-399.40	
For Class 54 Rating, Add	564.16	
For Class 55 Rating, Add	848.73	
For Class 56 Rating, Add	1,129.68	
40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,497.66	1,076.93
For Class 52 Rating, Deduct	-425.26	
For Class 54 Rating, Add	599.47	
For Class 55 Rating, Add	901.27	
For Class 56 Rating, Add	1,199.20	
40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,738.13	1,080.53
For Class 52 Rating, Deduct	-451.11	
For Class 54 Rating, Add	634.79	
For Class 55 Rating, Add	953.81	
For Class 56 Rating, Add	1,268.72	
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,978.60	1,084.13
For Class 52 Rating, Deduct	-476.96	
For Class 54 Rating, Add	670.11	
For Class 55 Rating, Add	1,006.35	
For Class 56 Rating, Add	1,338.25	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,219.07	1,087.74
For Class 52 Rating, Deduct	-502.81	
For Class 54 Rating, Add	705.43	
For Class 55 Rating, Add	1,058.88	
For Class 56 Rating, Add	1,407.77	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,459.54	1,091.34
For Class 52 Rating, Deduct	-528.66	
For Class 54 Rating, Add	740.74	
For Class 55 Rating, Add	1,111.42	
For Class 56 Rating, Add	1,477.30	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,700.01	1,094.93
			<i>For Class 52 Rating, Deduct</i>	-554.51	
			<i>For Class 54 Rating, Add</i>	776.06	
			<i>For Class 55 Rating, Add</i>	1,163.96	
			<i>For Class 56 Rating, Add</i>	1,546.82	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,940.47	1,098.54
			<i>For Class 52 Rating, Deduct</i>	-580.36	
			<i>For Class 54 Rating, Add</i>	811.38	
			<i>For Class 55 Rating, Add</i>	1,216.50	
			<i>For Class 56 Rating, Add</i>	1,616.34	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,180.93	1,102.14
			<i>For Class 52 Rating, Deduct</i>	-606.21	
			<i>For Class 54 Rating, Add</i>	846.69	
			<i>For Class 55 Rating, Add</i>	1,269.04	
			<i>For Class 56 Rating, Add</i>	1,685.87	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,421.40	1,105.74
			<i>For Class 52 Rating, Deduct</i>	-632.06	
			<i>For Class 54 Rating, Add</i>	882.01	
			<i>For Class 55 Rating, Add</i>	1,321.57	
			<i>For Class 56 Rating, Add</i>	1,755.39	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,661.87	1,109.35
			<i>For Class 52 Rating, Deduct</i>	-657.91	
			<i>For Class 54 Rating, Add</i>	917.33	
			<i>For Class 55 Rating, Add</i>	1,374.11	
			<i>For Class 56 Rating, Add</i>	1,824.92	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,902.33	1,112.94
			<i>For Class 52 Rating, Deduct</i>	-683.77	
			<i>For Class 54 Rating, Add</i>	952.64	
			<i>For Class 55 Rating, Add</i>	1,426.65	
			<i>For Class 56 Rating, Add</i>	1,894.44	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,142.80	1,116.55
			<i>For Class 52 Rating, Deduct</i>	-709.62	
			<i>For Class 54 Rating, Add</i>	987.96	
			<i>For Class 55 Rating, Add</i>	1,479.19	
			<i>For Class 56 Rating, Add</i>	1,963.97	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,383.27	1,120.15
			<i>For Class 52 Rating, Deduct</i>	-735.47	
			<i>For Class 54 Rating, Add</i>	1,023.28	
			<i>For Class 55 Rating, Add</i>	1,531.73	
			<i>For Class 56 Rating, Add</i>	2,033.49	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,623.73	1,123.75
			<i>For Class 52 Rating, Deduct</i>	-761.32	
			<i>For Class 54 Rating, Add</i>	1,058.59	
			<i>For Class 55 Rating, Add</i>	1,584.26	
			<i>For Class 56 Rating, Add</i>	2,103.01	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,864.19	1,127.36
			<i>For Class 52 Rating, Deduct</i>	-787.17	
			<i>For Class 54 Rating, Add</i>	1,093.91	
			<i>For Class 55 Rating, Add</i>	1,636.80	
			<i>For Class 56 Rating, Add</i>	2,172.54	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,104.66	1,130.95
			<i>For Class 52 Rating, Deduct</i>	-813.02	
			<i>For Class 54 Rating, Add</i>	1,129.23	
			<i>For Class 55 Rating, Add</i>	1,689.34	
			<i>For Class 56 Rating, Add</i>	2,242.06	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,345.12	1,134.55
			<i>For Class 52 Rating, Deduct</i>	-838.87	
			<i>For Class 54 Rating, Add</i>	1,164.54	
			<i>For Class 55 Rating, Add</i>	1,741.88	
			<i>For Class 56 Rating, Add</i>	2,311.58	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,585.59	1,138.16
			<i>For Class 52 Rating, Deduct</i>	-864.72	
			<i>For Class 54 Rating, Add</i>	1,199.86	
			<i>For Class 55 Rating, Add</i>	1,794.42	
			<i>For Class 56 Rating, Add</i>	2,381.11	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,826.06	1,141.76
			<i>For Class 52 Rating, Deduct</i>	-890.57	
			<i>For Class 54 Rating, Add</i>	1,235.18	
			<i>For Class 55 Rating, Add</i>	1,846.95	
			<i>For Class 56 Rating, Add</i>	2,450.63	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,066.53	1,145.36
For Class 52 Rating, Deduct	-916.42	
For Class 54 Rating, Add	1,270.49	
For Class 55 Rating, Add	1,899.49	
For Class 56 Rating, Add	2,520.16	
40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,306.99	1,148.97
For Class 52 Rating, Deduct	-942.28	
For Class 54 Rating, Add	1,305.81	
For Class 55 Rating, Add	1,952.03	
For Class 56 Rating, Add	2,589.68	
40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,547.46	1,152.56
For Class 52 Rating, Deduct	-968.13	
For Class 54 Rating, Add	1,341.13	
For Class 55 Rating, Add	2,004.57	
For Class 56 Rating, Add	2,659.21	
40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,880.69	1,217.40
For Class 52 Rating, Deduct	-993.98	
For Class 54 Rating, Add	1,377.56	
For Class 55 Rating, Add	2,059.33	
For Class 56 Rating, Add	2,732.07	
40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,121.16	1,221.00
For Class 52 Rating, Deduct	-1,019.83	
For Class 54 Rating, Add	1,412.87	
For Class 55 Rating, Add	2,111.87	
For Class 56 Rating, Add	2,801.59	
40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,361.63	1,224.60
For Class 52 Rating, Deduct	-1,045.68	
For Class 54 Rating, Add	1,448.19	
For Class 55 Rating, Add	2,164.41	
For Class 56 Rating, Add	2,871.12	
40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,602.09	1,228.20
For Class 52 Rating, Deduct	-1,071.53	
For Class 54 Rating, Add	1,483.51	
For Class 55 Rating, Add	2,216.94	
For Class 56 Rating, Add	2,940.64	
40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,842.56	1,231.80
For Class 52 Rating, Deduct	-1,097.38	
For Class 54 Rating, Add	1,518.82	
For Class 55 Rating, Add	2,269.48	
For Class 56 Rating, Add	3,010.17	
40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,083.03	1,235.40
For Class 52 Rating, Deduct	-1,123.23	
For Class 54 Rating, Add	1,554.14	
For Class 55 Rating, Add	2,322.02	
For Class 56 Rating, Add	3,079.69	
40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,323.49	1,239.01
For Class 52 Rating, Deduct	-1,149.08	
For Class 54 Rating, Add	1,589.46	
For Class 55 Rating, Add	2,374.56	
For Class 56 Rating, Add	3,149.21	
40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,563.96	1,242.61
For Class 52 Rating, Deduct	-1,174.93	
For Class 54 Rating, Add	1,624.78	
For Class 55 Rating, Add	2,427.10	
For Class 56 Rating, Add	3,218.74	
40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,804.42	1,246.21
For Class 52 Rating, Deduct	-1,200.78	
For Class 54 Rating, Add	1,660.09	
For Class 55 Rating, Add	2,479.63	
For Class 56 Rating, Add	3,288.26	
 40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,794.12	1,483.93
For Class 52 Rating, Deduct	-390.03	
For Class 54 Rating, Add	558.84	
For Class 55 Rating, Add	844.66	
For Class 56 Rating, Add	1,126.94	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,139.03	1,487.53
		<i>For Class 52 Rating, Deduct</i>	-427.37	
		<i>For Class 54 Rating, Add</i>	609.83	
		<i>For Class 55 Rating, Add</i>	920.49	
		<i>For Class 56 Rating, Add</i>	1,227.27	
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,483.94	1,491.13
		<i>For Class 52 Rating, Deduct</i>	-464.71	
		<i>For Class 54 Rating, Add</i>	660.81	
		<i>For Class 55 Rating, Add</i>	996.32	
		<i>For Class 56 Rating, Add</i>	1,327.61	
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,828.86	1,494.74
		<i>For Class 52 Rating, Deduct</i>	-502.05	
		<i>For Class 54 Rating, Add</i>	711.79	
		<i>For Class 55 Rating, Add</i>	1,072.15	
		<i>For Class 56 Rating, Add</i>	1,427.95	
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,173.77	1,498.33
		<i>For Class 52 Rating, Deduct</i>	-539.39	
		<i>For Class 54 Rating, Add</i>	762.78	
		<i>For Class 55 Rating, Add</i>	1,147.98	
		<i>For Class 56 Rating, Add</i>	1,528.28	
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,518.70	1,501.93
		<i>For Class 52 Rating, Deduct</i>	-576.73	
		<i>For Class 54 Rating, Add</i>	813.76	
		<i>For Class 55 Rating, Add</i>	1,223.81	
		<i>For Class 56 Rating, Add</i>	1,628.62	
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,863.61	1,505.54
		<i>For Class 52 Rating, Deduct</i>	-614.07	
		<i>For Class 54 Rating, Add</i>	864.75	
		<i>For Class 55 Rating, Add</i>	1,299.64	
		<i>For Class 56 Rating, Add</i>	1,728.95	
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,208.52	1,509.14
		<i>For Class 52 Rating, Deduct</i>	-651.41	
		<i>For Class 54 Rating, Add</i>	915.73	
		<i>For Class 55 Rating, Add</i>	1,375.47	
		<i>For Class 56 Rating, Add</i>	1,829.29	
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,553.44	1,512.74
		<i>For Class 52 Rating, Deduct</i>	-688.75	
		<i>For Class 54 Rating, Add</i>	966.71	
		<i>For Class 55 Rating, Add</i>	1,451.30	
		<i>For Class 56 Rating, Add</i>	1,929.63	
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,898.35	1,516.35
		<i>For Class 52 Rating, Deduct</i>	-726.09	
		<i>For Class 54 Rating, Add</i>	1,017.70	
		<i>For Class 55 Rating, Add</i>	1,527.13	
		<i>For Class 56 Rating, Add</i>	2,029.96	
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,243.27	1,519.94
		<i>For Class 52 Rating, Deduct</i>	-763.44	
		<i>For Class 54 Rating, Add</i>	1,068.68	
		<i>For Class 55 Rating, Add</i>	1,602.96	
		<i>For Class 56 Rating, Add</i>	2,130.30	
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,588.18	1,523.55
		<i>For Class 52 Rating, Deduct</i>	-800.77	
		<i>For Class 54 Rating, Add</i>	1,119.67	
		<i>For Class 55 Rating, Add</i>	1,678.79	
		<i>For Class 56 Rating, Add</i>	2,230.63	
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,933.09	1,527.15
		<i>For Class 52 Rating, Deduct</i>	-838.12	
		<i>For Class 54 Rating, Add</i>	1,170.65	
		<i>For Class 55 Rating, Add</i>	1,754.62	
		<i>For Class 56 Rating, Add</i>	2,330.97	
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,278.01	1,530.75
		<i>For Class 52 Rating, Deduct</i>	-875.46	
		<i>For Class 54 Rating, Add</i>	1,221.64	
		<i>For Class 55 Rating, Add</i>	1,830.45	
		<i>For Class 56 Rating, Add</i>	2,431.31	
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,622.92	1,534.36
		<i>For Class 52 Rating, Deduct</i>	-912.80	
		<i>For Class 54 Rating, Add</i>	1,272.62	
		<i>For Class 55 Rating, Add</i>	1,906.28	
		<i>For Class 56 Rating, Add</i>	2,531.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,967.83	1,537.95
<i>For Class 52 Rating, Deduct</i>	-950.14	
<i>For Class 54 Rating, Add</i>	1,323.60	
<i>For Class 55 Rating, Add</i>	1,982.11	
<i>For Class 56 Rating, Add</i>	2,631.98	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,312.75	1,541.55
<i>For Class 52 Rating, Deduct</i>	-987.48	
<i>For Class 54 Rating, Add</i>	1,374.59	
<i>For Class 55 Rating, Add</i>	2,057.94	
<i>For Class 56 Rating, Add</i>	2,732.32	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,657.67	1,545.16
<i>For Class 52 Rating, Deduct</i>	-1,024.82	
<i>For Class 54 Rating, Add</i>	1,425.57	
<i>For Class 55 Rating, Add</i>	2,133.77	
<i>For Class 56 Rating, Add</i>	2,832.65	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,002.57	1,548.76
<i>For Class 52 Rating, Deduct</i>	-1,062.16	
<i>For Class 54 Rating, Add</i>	1,476.55	
<i>For Class 55 Rating, Add</i>	2,209.60	
<i>For Class 56 Rating, Add</i>	2,932.99	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,347.49	1,552.36
<i>For Class 52 Rating, Deduct</i>	-1,099.50	
<i>For Class 54 Rating, Add</i>	1,527.54	
<i>For Class 55 Rating, Add</i>	2,285.43	
<i>For Class 56 Rating, Add</i>	3,033.33	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,692.41	1,555.96
<i>For Class 52 Rating, Deduct</i>	-1,136.84	
<i>For Class 54 Rating, Add</i>	1,578.52	
<i>For Class 55 Rating, Add</i>	2,361.26	
<i>For Class 56 Rating, Add</i>	3,133.66	
40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,037.32	1,559.56
<i>For Class 52 Rating, Deduct</i>	-1,174.18	
<i>For Class 54 Rating, Add</i>	1,629.51	
<i>For Class 55 Rating, Add</i>	2,437.09	
<i>For Class 56 Rating, Add</i>	3,234.00	
40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,382.23	1,563.17
<i>For Class 52 Rating, Deduct</i>	-1,211.52	
<i>For Class 54 Rating, Add</i>	1,680.49	
<i>For Class 55 Rating, Add</i>	2,512.92	
<i>For Class 56 Rating, Add</i>	3,334.33	
40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,727.15	1,566.77
<i>For Class 52 Rating, Deduct</i>	-1,248.86	
<i>For Class 54 Rating, Add</i>	1,731.48	
<i>For Class 55 Rating, Add</i>	2,588.75	
<i>For Class 56 Rating, Add</i>	3,434.67	
40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,072.06	1,570.37
<i>For Class 52 Rating, Deduct</i>	-1,286.20	
<i>For Class 54 Rating, Add</i>	1,782.46	
<i>For Class 55 Rating, Add</i>	2,664.58	
<i>For Class 56 Rating, Add</i>	3,535.01	
40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,416.97	1,573.98
<i>For Class 52 Rating, Deduct</i>	-1,323.54	
<i>For Class 54 Rating, Add</i>	1,833.44	
<i>For Class 55 Rating, Add</i>	2,740.41	
<i>For Class 56 Rating, Add</i>	3,635.34	
40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,761.89	1,577.57
<i>For Class 52 Rating, Deduct</i>	-1,360.88	
<i>For Class 54 Rating, Add</i>	1,884.43	
<i>For Class 55 Rating, Add</i>	2,816.24	
<i>For Class 56 Rating, Add</i>	3,735.68	
40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,106.81	1,581.17
<i>For Class 52 Rating, Deduct</i>	-1,398.22	
<i>For Class 54 Rating, Add</i>	1,935.41	
<i>For Class 55 Rating, Add</i>	2,892.07	
<i>For Class 56 Rating, Add</i>	3,836.02	
40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,451.71	1,584.78
<i>For Class 52 Rating, Deduct</i>	-1,435.56	
<i>For Class 54 Rating, Add</i>	1,986.40	
<i>For Class 55 Rating, Add</i>	2,967.90	
<i>For Class 56 Rating, Add</i>	3,936.35	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,796.63	1,588.38
			<i>For Class 52 Rating, Deduct</i>	-1,472.90	
			<i>For Class 54 Rating, Add</i>	2,037.38	
			<i>For Class 55 Rating, Add</i>	3,043.73	
			<i>For Class 56 Rating, Add</i>	4,036.69	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,141.55	1,591.98
			<i>For Class 52 Rating, Deduct</i>	-1,510.24	
			<i>For Class 54 Rating, Add</i>	2,088.36	
			<i>For Class 55 Rating, Add</i>	3,119.56	
			<i>For Class 56 Rating, Add</i>	4,137.03	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,486.45	1,595.58
			<i>For Class 52 Rating, Deduct</i>	-1,547.58	
			<i>For Class 54 Rating, Add</i>	2,139.35	
			<i>For Class 55 Rating, Add</i>	3,195.39	
			<i>For Class 56 Rating, Add</i>	4,237.36	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,831.37	1,599.18
			<i>For Class 52 Rating, Deduct</i>	-1,584.92	
			<i>For Class 54 Rating, Add</i>	2,190.33	
			<i>For Class 55 Rating, Add</i>	3,271.22	
			<i>For Class 56 Rating, Add</i>	4,337.70	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,176.29	1,602.79
			<i>For Class 52 Rating, Deduct</i>	-1,622.26	
			<i>For Class 54 Rating, Add</i>	2,241.32	
			<i>For Class 55 Rating, Add</i>	3,347.05	
			<i>For Class 56 Rating, Add</i>	4,438.03	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,521.20	1,606.39
			<i>For Class 52 Rating, Deduct</i>	-1,659.60	
			<i>For Class 54 Rating, Add</i>	2,292.30	
			<i>For Class 55 Rating, Add</i>	3,422.88	
			<i>For Class 56 Rating, Add</i>	4,538.37	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,866.12	1,609.99
			<i>For Class 52 Rating, Deduct</i>	-1,696.94	
			<i>For Class 54 Rating, Add</i>	2,343.28	
			<i>For Class 55 Rating, Add</i>	3,498.71	
			<i>For Class 56 Rating, Add</i>	4,638.71	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,211.04	1,613.59
			<i>For Class 52 Rating, Deduct</i>	-1,734.28	
			<i>For Class 54 Rating, Add</i>	2,394.27	
			<i>For Class 55 Rating, Add</i>	3,574.54	
			<i>For Class 56 Rating, Add</i>	4,739.04	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,555.96	1,617.19
			<i>For Class 52 Rating, Deduct</i>	-1,771.62	
			<i>For Class 54 Rating, Add</i>	2,445.25	
			<i>For Class 55 Rating, Add</i>	3,650.37	
			<i>For Class 56 Rating, Add</i>	4,839.38	
40 05 19 00-0989			36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,847.07	1,880.12
			<i>For Class 52 Rating, Deduct</i>	-549.82	
			<i>For Class 54 Rating, Add</i>	783.94	
			<i>For Class 55 Rating, Add</i>	1,183.01	
			<i>For Class 56 Rating, Add</i>	1,577.08	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,314.29	1,883.72
			<i>For Class 52 Rating, Deduct</i>	-600.62	
			<i>For Class 54 Rating, Add</i>	853.27	
			<i>For Class 55 Rating, Add</i>	1,286.12	
			<i>For Class 56 Rating, Add</i>	1,713.50	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,781.52	1,887.32
			<i>For Class 52 Rating, Deduct</i>	-651.41	
			<i>For Class 54 Rating, Add</i>	922.61	
			<i>For Class 55 Rating, Add</i>	1,389.22	
			<i>For Class 56 Rating, Add</i>	1,849.92	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,248.76	1,890.93
			<i>For Class 52 Rating, Deduct</i>	-702.21	
			<i>For Class 54 Rating, Add</i>	991.94	
			<i>For Class 55 Rating, Add</i>	1,492.33	
			<i>For Class 56 Rating, Add</i>	1,986.34	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,715.98	1,894.53
For Class 52 Rating, Deduct	-753.00	
For Class 54 Rating, Add	1,061.27	
For Class 55 Rating, Add	1,595.44	
For Class 56 Rating, Add	2,122.76	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,183.21	1,898.13
For Class 52 Rating, Deduct	-803.80	
For Class 54 Rating, Add	1,130.60	
For Class 55 Rating, Add	1,698.54	
For Class 56 Rating, Add	2,259.18	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,650.44	1,901.74
For Class 52 Rating, Deduct	-854.59	
For Class 54 Rating, Add	1,199.93	
For Class 55 Rating, Add	1,801.65	
For Class 56 Rating, Add	2,395.59	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,117.67	1,905.33
For Class 52 Rating, Deduct	-905.39	
For Class 54 Rating, Add	1,269.26	
For Class 55 Rating, Add	1,904.75	
For Class 56 Rating, Add	2,532.01	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,584.89	1,908.93
For Class 52 Rating, Deduct	-956.18	
For Class 54 Rating, Add	1,338.59	
For Class 55 Rating, Add	2,007.86	
For Class 56 Rating, Add	2,668.43	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,052.13	1,912.54
For Class 52 Rating, Deduct	-1,006.98	
For Class 54 Rating, Add	1,407.93	
For Class 55 Rating, Add	2,110.97	
For Class 56 Rating, Add	2,804.85	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,519.36	1,916.14
For Class 52 Rating, Deduct	-1,057.77	
For Class 54 Rating, Add	1,477.26	
For Class 55 Rating, Add	2,214.07	
For Class 56 Rating, Add	2,941.27	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,986.59	1,919.74
For Class 52 Rating, Deduct	-1,108.57	
For Class 54 Rating, Add	1,546.59	
For Class 55 Rating, Add	2,317.18	
For Class 56 Rating, Add	3,077.69	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,453.82	1,923.34
For Class 52 Rating, Deduct	-1,159.36	
For Class 54 Rating, Add	1,615.92	
For Class 55 Rating, Add	2,420.28	
For Class 56 Rating, Add	3,214.11	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,921.05	1,926.94
For Class 52 Rating, Deduct	-1,210.16	
For Class 54 Rating, Add	1,685.25	
For Class 55 Rating, Add	2,523.39	
For Class 56 Rating, Add	3,350.53	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,388.27	1,930.55
For Class 52 Rating, Deduct	-1,260.95	
For Class 54 Rating, Add	1,754.58	
For Class 55 Rating, Add	2,626.50	
For Class 56 Rating, Add	3,486.95	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,855.50	1,934.15
For Class 52 Rating, Deduct	-1,311.75	
For Class 54 Rating, Add	1,823.91	
For Class 55 Rating, Add	2,729.60	
For Class 56 Rating, Add	3,623.37	
40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,322.74	1,937.75
For Class 52 Rating, Deduct	-1,362.54	
For Class 54 Rating, Add	1,893.24	
For Class 55 Rating, Add	2,832.71	
For Class 56 Rating, Add	3,759.79	
40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,789.96	1,941.36
For Class 52 Rating, Deduct	-1,413.34	
For Class 54 Rating, Add	1,962.58	
For Class 55 Rating, Add	2,935.81	
For Class 56 Rating, Add	3,896.21	

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,257.19	1,944.95
			For Class 52 Rating, Deduct	-1,464.13	
			For Class 54 Rating, Add	2,031.91	
			For Class 55 Rating, Add	3,038.92	
			For Class 56 Rating, Add	4,032.62	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,724.42	1,948.55
			For Class 52 Rating, Deduct	-1,514.93	
			For Class 54 Rating, Add	2,101.24	
			For Class 55 Rating, Add	3,142.03	
			For Class 56 Rating, Add	4,169.04	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,191.64	1,952.16
			For Class 52 Rating, Deduct	-1,565.72	
			For Class 54 Rating, Add	2,170.57	
			For Class 55 Rating, Add	3,245.13	
			For Class 56 Rating, Add	4,305.46	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,658.87	1,955.76
			For Class 52 Rating, Deduct	-1,616.52	
			For Class 54 Rating, Add	2,239.90	
			For Class 55 Rating, Add	3,348.24	
			For Class 56 Rating, Add	4,441.88	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,126.11	1,959.36
			For Class 52 Rating, Deduct	-1,667.31	
			For Class 54 Rating, Add	2,309.23	
			For Class 55 Rating, Add	3,451.35	
			For Class 56 Rating, Add	4,578.30	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,593.34	1,962.96
			For Class 52 Rating, Deduct	-1,718.11	
			For Class 54 Rating, Add	2,378.56	
			For Class 55 Rating, Add	3,554.45	
			For Class 56 Rating, Add	4,714.72	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,060.56	1,966.56
			For Class 52 Rating, Deduct	-1,768.90	
			For Class 54 Rating, Add	2,447.89	
			For Class 55 Rating, Add	3,657.56	
			For Class 56 Rating, Add	4,851.14	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,527.79	1,970.17
			For Class 52 Rating, Deduct	-1,819.70	
			For Class 54 Rating, Add	2,517.22	
			For Class 55 Rating, Add	3,760.66	
			For Class 56 Rating, Add	4,987.56	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,995.02	1,973.77
			For Class 52 Rating, Deduct	-1,870.49	
			For Class 54 Rating, Add	2,586.56	
			For Class 55 Rating, Add	3,863.77	
			For Class 56 Rating, Add	5,123.98	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,462.24	1,977.37
			For Class 52 Rating, Deduct	-1,921.29	
			For Class 54 Rating, Add	2,655.89	
			For Class 55 Rating, Add	3,966.87	
			For Class 56 Rating, Add	5,260.39	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,929.47	1,980.97
			For Class 52 Rating, Deduct	-1,972.08	
			For Class 54 Rating, Add	2,725.22	
			For Class 55 Rating, Add	4,069.98	
			For Class 56 Rating, Add	5,396.81	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,396.71	1,984.57
			For Class 52 Rating, Deduct	-2,022.88	
			For Class 54 Rating, Add	2,794.55	
			For Class 55 Rating, Add	4,173.09	
			For Class 56 Rating, Add	5,533.23	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,863.93	1,988.17
			For Class 52 Rating, Deduct	-2,073.67	
			For Class 54 Rating, Add	2,863.88	
			For Class 55 Rating, Add	4,276.19	
			For Class 56 Rating, Add	5,669.65	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,331.16	1,991.78
			For Class 52 Rating, Deduct	-2,124.47	
			For Class 54 Rating, Add	2,933.21	
			For Class 55 Rating, Add	4,379.30	
			For Class 56 Rating, Add	5,806.07	



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Ductile Iron Process Pipe	40 05 19

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	22,798.39 -2,175.26 3,002.54 4,482.40 5,942.49	1,995.38
40 05 19 00-1023	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	23,265.61 -2,226.05 3,071.87 4,585.51 6,078.91	1,998.98
40 05 19 00-1024	EA	36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	23,732.84 -2,276.85 3,141.21 4,688.62 6,215.33	2,002.58
40 05 19 00-1025	EA	36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	24,200.07 -2,327.64 3,210.54 4,791.72 6,351.75	2,006.18
40 05 19 00-1026	EA	36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	24,667.30 -2,378.44 3,279.87 4,894.83 6,488.17	2,009.79
40 05 19 00-1027	EA	36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	25,134.53 -2,429.23 3,349.20 4,997.93 6,624.59	2,013.39
40 05 19 00-1028		Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
40 05 19 00-1029		4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030	EA	4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	466.16 -21.92 33.09 50.84 68.40	176.15
40 05 19 00-1031	EA	4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	506.56 -25.85 38.51 58.92 79.10	179.22
40 05 19 00-1032	EA	4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	546.96 -29.78 43.93 67.00 89.81	182.31
40 05 19 00-1033	EA	4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	587.35 -33.71 49.34 75.08 100.52	185.38
40 05 19 00-1034	EA	4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	627.76 -37.64 54.76 83.17 111.23	188.46
40 05 19 00-1035	EA	4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	668.16 -41.57 60.17 91.25 121.94	191.55
40 05 19 00-1036	EA	4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <i>For Class 52 Rating, Deduct</i> <i>For Class 54 Rating, Add</i> <i>For Class 55 Rating, Add</i> <i>For Class 56 Rating, Add</i>	708.55 -45.50 65.59 99.33 132.65	194.63

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	748.95	197.70
			For Class 52 Rating, Deduct	-49.43	
			For Class 54 Rating, Add	71.00	
			For Class 55 Rating, Add	107.41	
			For Class 56 Rating, Add	143.36	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	789.35	200.78
			For Class 52 Rating, Deduct	-53.37	
			For Class 54 Rating, Add	76.42	
			For Class 55 Rating, Add	115.49	
			For Class 56 Rating, Add	154.07	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	829.74	203.87
			For Class 52 Rating, Deduct	-57.30	
			For Class 54 Rating, Add	81.84	
			For Class 55 Rating, Add	123.57	
			For Class 56 Rating, Add	164.78	
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	870.14	206.93
			For Class 52 Rating, Deduct	-61.23	
			For Class 54 Rating, Add	87.25	
			For Class 55 Rating, Add	131.65	
			For Class 56 Rating, Add	175.48	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	910.54	210.02
			For Class 52 Rating, Deduct	-65.16	
			For Class 54 Rating, Add	92.67	
			For Class 55 Rating, Add	139.73	
			For Class 56 Rating, Add	186.19	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	950.93	213.11
			For Class 52 Rating, Deduct	-69.09	
			For Class 54 Rating, Add	98.08	
			For Class 55 Rating, Add	147.81	
			For Class 56 Rating, Add	196.90	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.34	216.19
			For Class 52 Rating, Deduct	-73.02	
			For Class 54 Rating, Add	103.50	
			For Class 55 Rating, Add	155.89	
			For Class 56 Rating, Add	207.61	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,031.74	219.26
			For Class 52 Rating, Deduct	-76.95	
			For Class 54 Rating, Add	108.92	
			For Class 55 Rating, Add	163.97	
			For Class 56 Rating, Add	218.32	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,072.13	222.34
			For Class 52 Rating, Deduct	-80.88	
			For Class 54 Rating, Add	114.33	
			For Class 55 Rating, Add	172.05	
			For Class 56 Rating, Add	229.03	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,112.53	225.43
			For Class 52 Rating, Deduct	-84.81	
			For Class 54 Rating, Add	119.75	
			For Class 55 Rating, Add	180.13	
			For Class 56 Rating, Add	239.74	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,152.94	228.49
			For Class 52 Rating, Deduct	-88.74	
			For Class 54 Rating, Add	125.16	
			For Class 55 Rating, Add	188.21	
			For Class 56 Rating, Add	250.45	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,193.33	231.58
			For Class 52 Rating, Deduct	-92.67	
			For Class 54 Rating, Add	130.58	
			For Class 55 Rating, Add	196.29	
			For Class 56 Rating, Add	261.16	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,233.73	234.66
			For Class 52 Rating, Deduct	-96.60	
			For Class 54 Rating, Add	135.99	
			For Class 55 Rating, Add	204.37	
			For Class 56 Rating, Add	271.87	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.13	237.74
			For Class 52 Rating, Deduct	-100.53	
			For Class 54 Rating, Add	141.41	
			For Class 55 Rating, Add	212.45	
			For Class 56 Rating, Add	282.57	



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1051	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.53	240.82
		<i>For Class 52 Rating, Deduct</i>	-104.46	
		<i>For Class 54 Rating, Add</i>	146.83	
		<i>For Class 55 Rating, Add</i>	220.53	
		<i>For Class 56 Rating, Add</i>	293.29	
40 05 19 00-1052	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,354.92	243.89
		<i>For Class 52 Rating, Deduct</i>	-108.39	
		<i>For Class 54 Rating, Add</i>	152.24	
		<i>For Class 55 Rating, Add</i>	228.61	
		<i>For Class 56 Rating, Add</i>	303.99	
40 05 19 00-1053	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,395.32	246.98
		<i>For Class 52 Rating, Deduct</i>	-112.32	
		<i>For Class 54 Rating, Add</i>	157.66	
		<i>For Class 55 Rating, Add</i>	236.69	
		<i>For Class 56 Rating, Add</i>	314.70	
40 05 19 00-1054	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,435.72	250.05
		<i>For Class 52 Rating, Deduct</i>	-116.25	
		<i>For Class 54 Rating, Add</i>	163.07	
		<i>For Class 55 Rating, Add</i>	244.77	
		<i>For Class 56 Rating, Add</i>	325.41	
40 05 19 00-1055	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,476.11	253.13
		<i>For Class 52 Rating, Deduct</i>	-120.18	
		<i>For Class 54 Rating, Add</i>	168.49	
		<i>For Class 55 Rating, Add</i>	252.85	
		<i>For Class 56 Rating, Add</i>	336.12	
40 05 19 00-1056	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.52	256.21
		<i>For Class 52 Rating, Deduct</i>	-124.12	
		<i>For Class 54 Rating, Add</i>	173.91	
		<i>For Class 55 Rating, Add</i>	260.93	
		<i>For Class 56 Rating, Add</i>	346.83	
40 05 19 00-1057	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,556.92	259.30
		<i>For Class 52 Rating, Deduct</i>	-128.05	
		<i>For Class 54 Rating, Add</i>	179.32	
		<i>For Class 55 Rating, Add</i>	269.01	
		<i>For Class 56 Rating, Add</i>	357.54	
40 05 19 00-1058	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,597.31	262.36
		<i>For Class 52 Rating, Deduct</i>	-131.98	
		<i>For Class 54 Rating, Add</i>	184.74	
		<i>For Class 55 Rating, Add</i>	277.09	
		<i>For Class 56 Rating, Add</i>	368.25	
40 05 19 00-1059	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.71	265.45
		<i>For Class 52 Rating, Deduct</i>	-135.91	
		<i>For Class 54 Rating, Add</i>	190.15	
		<i>For Class 55 Rating, Add</i>	285.17	
		<i>For Class 56 Rating, Add</i>	378.95	
40 05 19 00-1060	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,678.12	268.54
		<i>For Class 52 Rating, Deduct</i>	-139.84	
		<i>For Class 54 Rating, Add</i>	195.57	
		<i>For Class 55 Rating, Add</i>	293.25	
		<i>For Class 56 Rating, Add</i>	389.67	
40 05 19 00-1061	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,718.51	271.62
		<i>For Class 52 Rating, Deduct</i>	-143.77	
		<i>For Class 54 Rating, Add</i>	200.99	
		<i>For Class 55 Rating, Add</i>	301.33	
		<i>For Class 56 Rating, Add</i>	400.37	
40 05 19 00-1062	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,758.91	274.69
		<i>For Class 52 Rating, Deduct</i>	-147.70	
		<i>For Class 54 Rating, Add</i>	206.40	
		<i>For Class 55 Rating, Add</i>	309.41	
		<i>For Class 56 Rating, Add</i>	411.08	
40 05 19 00-1063	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.31	277.77
		<i>For Class 52 Rating, Deduct</i>	-151.63	
		<i>For Class 54 Rating, Add</i>	211.82	
		<i>For Class 55 Rating, Add</i>	317.49	
		<i>For Class 56 Rating, Add</i>	421.79	
40 05 19 00-1064	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,839.70	280.86
		<i>For Class 52 Rating, Deduct</i>	-155.56	
		<i>For Class 54 Rating, Add</i>	217.23	
		<i>For Class 55 Rating, Add</i>	325.57	
		<i>For Class 56 Rating, Add</i>	432.50	



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,880.10		283.92
		<i>For Class 52 Rating, Deduct</i>	-159.49		
		<i>For Class 54 Rating, Add</i>	222.65		
		<i>For Class 55 Rating, Add</i>	333.65		
		<i>For Class 56 Rating, Add</i>	443.21		
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.50		287.01
		<i>For Class 52 Rating, Deduct</i>	-163.42		
		<i>For Class 54 Rating, Add</i>	228.06		
		<i>For Class 55 Rating, Add</i>	341.73		
		<i>For Class 56 Rating, Add</i>	453.92		
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,960.89		290.10
		<i>For Class 52 Rating, Deduct</i>	-167.35		
		<i>For Class 54 Rating, Add</i>	233.48		
		<i>For Class 55 Rating, Add</i>	349.81		
		<i>For Class 56 Rating, Add</i>	464.63		
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.29		293.17
		<i>For Class 52 Rating, Deduct</i>	-171.28		
		<i>For Class 54 Rating, Add</i>	238.90		
		<i>For Class 55 Rating, Add</i>	357.89		
		<i>For Class 56 Rating, Add</i>	475.34		
40 05 19 00-1069 6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>					
40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	584.70		221.72
		<i>For Class 52 Rating, Deduct</i>	-27.36		
		<i>For Class 54 Rating, Add</i>	41.34		
		<i>For Class 55 Rating, Add</i>	63.53		
		<i>For Class 56 Rating, Add</i>	85.48		
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	633.35		224.81
		<i>For Class 52 Rating, Deduct</i>	-32.20		
		<i>For Class 54 Rating, Add</i>	48.00		
		<i>For Class 55 Rating, Add</i>	73.45		
		<i>For Class 56 Rating, Add</i>	98.62		
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	681.98		227.88
		<i>For Class 52 Rating, Deduct</i>	-37.04		
		<i>For Class 54 Rating, Add</i>	54.65		
		<i>For Class 55 Rating, Add</i>	83.37		
		<i>For Class 56 Rating, Add</i>	111.76		
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	730.63		230.96
		<i>For Class 52 Rating, Deduct</i>	-41.88		
		<i>For Class 54 Rating, Add</i>	61.30		
		<i>For Class 55 Rating, Add</i>	93.29		
		<i>For Class 56 Rating, Add</i>	124.90		
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	779.27		234.05
		<i>For Class 52 Rating, Deduct</i>	-46.71		
		<i>For Class 54 Rating, Add</i>	67.95		
		<i>For Class 55 Rating, Add</i>	103.21		
		<i>For Class 56 Rating, Add</i>	138.04		
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	827.91		237.12
		<i>For Class 52 Rating, Deduct</i>	-51.55		
		<i>For Class 54 Rating, Add</i>	74.61		
		<i>For Class 55 Rating, Add</i>	113.13		
		<i>For Class 56 Rating, Add</i>	151.18		
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	876.56		240.20
		<i>For Class 52 Rating, Deduct</i>	-56.39		
		<i>For Class 54 Rating, Add</i>	81.26		
		<i>For Class 55 Rating, Add</i>	123.05		
		<i>For Class 56 Rating, Add</i>	164.32		
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	925.21		243.28
		<i>For Class 52 Rating, Deduct</i>	-61.23		
		<i>For Class 54 Rating, Add</i>	87.91		
		<i>For Class 55 Rating, Add</i>	132.97		
		<i>For Class 56 Rating, Add</i>	177.47		
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	973.85		246.37
		<i>For Class 52 Rating, Deduct</i>	-66.06		
		<i>For Class 54 Rating, Add</i>	94.57		
		<i>For Class 55 Rating, Add</i>	142.89		
		<i>For Class 56 Rating, Add</i>	190.61		



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,022.50	249.43
<i>For Class 52 Rating, Deduct</i>	-70.90	
<i>For Class 54 Rating, Add</i>	101.22	
<i>For Class 55 Rating, Add</i>	152.81	
<i>For Class 56 Rating, Add</i>	203.75	
40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,071.14	252.52
<i>For Class 52 Rating, Deduct</i>	-75.74	
<i>For Class 54 Rating, Add</i>	107.87	
<i>For Class 55 Rating, Add</i>	162.72	
<i>For Class 56 Rating, Add</i>	216.89	
40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,119.78	255.61
<i>For Class 52 Rating, Deduct</i>	-80.58	
<i>For Class 54 Rating, Add</i>	114.52	
<i>For Class 55 Rating, Add</i>	172.64	
<i>For Class 56 Rating, Add</i>	230.03	
40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,168.43	258.67
<i>For Class 52 Rating, Deduct</i>	-85.41	
<i>For Class 54 Rating, Add</i>	121.18	
<i>For Class 55 Rating, Add</i>	182.56	
<i>For Class 56 Rating, Add</i>	243.17	
40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,217.08	261.76
<i>For Class 52 Rating, Deduct</i>	-90.25	
<i>For Class 54 Rating, Add</i>	127.83	
<i>For Class 55 Rating, Add</i>	192.48	
<i>For Class 56 Rating, Add</i>	256.32	
40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,265.72	264.84
<i>For Class 52 Rating, Deduct</i>	-95.09	
<i>For Class 54 Rating, Add</i>	134.48	
<i>For Class 55 Rating, Add</i>	202.40	
<i>For Class 56 Rating, Add</i>	269.46	
40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,314.36	267.92
<i>For Class 52 Rating, Deduct</i>	-99.93	
<i>For Class 54 Rating, Add</i>	141.14	
<i>For Class 55 Rating, Add</i>	212.32	
<i>For Class 56 Rating, Add</i>	282.60	
40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,363.00	270.99
<i>For Class 52 Rating, Deduct</i>	-104.76	
<i>For Class 54 Rating, Add</i>	147.79	
<i>For Class 55 Rating, Add</i>	222.24	
<i>For Class 56 Rating, Add</i>	295.74	
40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,411.64	274.08
<i>For Class 52 Rating, Deduct</i>	-109.60	
<i>For Class 54 Rating, Add</i>	154.44	
<i>For Class 55 Rating, Add</i>	232.16	
<i>For Class 56 Rating, Add</i>	308.88	
40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,460.29	277.16
<i>For Class 52 Rating, Deduct</i>	-114.44	
<i>For Class 54 Rating, Add</i>	161.09	
<i>For Class 55 Rating, Add</i>	242.08	
<i>For Class 56 Rating, Add</i>	322.02	
40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,508.94	280.24
<i>For Class 52 Rating, Deduct</i>	-119.28	
<i>For Class 54 Rating, Add</i>	167.75	
<i>For Class 55 Rating, Add</i>	252.00	
<i>For Class 56 Rating, Add</i>	335.17	
40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,557.58	283.32
<i>For Class 52 Rating, Deduct</i>	-124.12	
<i>For Class 54 Rating, Add</i>	174.40	
<i>For Class 55 Rating, Add</i>	261.92	
<i>For Class 56 Rating, Add</i>	348.31	
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,606.23	286.39
<i>For Class 52 Rating, Deduct</i>	-128.95	
<i>For Class 54 Rating, Add</i>	181.05	
<i>For Class 55 Rating, Add</i>	271.84	
<i>For Class 56 Rating, Add</i>	361.45	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,654.87	289.48
<i>For Class 52 Rating, Deduct</i>	-133.79	
<i>For Class 54 Rating, Add</i>	187.70	
<i>For Class 55 Rating, Add</i>	281.75	
<i>For Class 56 Rating, Add</i>	374.59	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,703.51	292.55
			<i>For Class 52 Rating, Deduct</i>	-138.63	
			<i>For Class 54 Rating, Add</i>	194.36	
			<i>For Class 55 Rating, Add</i>	291.67	
			<i>For Class 56 Rating, Add</i>	387.73	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,752.16	295.63
			<i>For Class 52 Rating, Deduct</i>	-143.47	
			<i>For Class 54 Rating, Add</i>	201.01	
			<i>For Class 55 Rating, Add</i>	301.59	
			<i>For Class 56 Rating, Add</i>	400.87	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,800.81	298.71
			<i>For Class 52 Rating, Deduct</i>	-148.30	
			<i>For Class 54 Rating, Add</i>	207.66	
			<i>For Class 55 Rating, Add</i>	311.51	
			<i>For Class 56 Rating, Add</i>	414.02	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,849.45	301.80
			<i>For Class 52 Rating, Deduct</i>	-153.14	
			<i>For Class 54 Rating, Add</i>	214.32	
			<i>For Class 55 Rating, Add</i>	321.43	
			<i>For Class 56 Rating, Add</i>	427.16	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.09	304.86
			<i>For Class 52 Rating, Deduct</i>	-157.98	
			<i>For Class 54 Rating, Add</i>	220.97	
			<i>For Class 55 Rating, Add</i>	331.35	
			<i>For Class 56 Rating, Add</i>	440.30	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,946.73	307.95
			<i>For Class 52 Rating, Deduct</i>	-162.82	
			<i>For Class 54 Rating, Add</i>	227.62	
			<i>For Class 55 Rating, Add</i>	341.27	
			<i>For Class 56 Rating, Add</i>	453.44	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,995.37	311.04
			<i>For Class 52 Rating, Deduct</i>	-167.65	
			<i>For Class 54 Rating, Add</i>	234.27	
			<i>For Class 55 Rating, Add</i>	351.19	
			<i>For Class 56 Rating, Add</i>	466.58	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,044.02	314.10
			<i>For Class 52 Rating, Deduct</i>	-172.49	
			<i>For Class 54 Rating, Add</i>	240.93	
			<i>For Class 55 Rating, Add</i>	361.11	
			<i>For Class 56 Rating, Add</i>	479.72	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.67	317.19
			<i>For Class 52 Rating, Deduct</i>	-177.33	
			<i>For Class 54 Rating, Add</i>	247.58	
			<i>For Class 55 Rating, Add</i>	371.03	
			<i>For Class 56 Rating, Add</i>	492.86	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,141.31	320.27
			<i>For Class 52 Rating, Deduct</i>	-182.17	
			<i>For Class 54 Rating, Add</i>	254.23	
			<i>For Class 55 Rating, Add</i>	380.95	
			<i>For Class 56 Rating, Add</i>	506.01	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,189.95	323.35
			<i>For Class 52 Rating, Deduct</i>	-187.00	
			<i>For Class 54 Rating, Add</i>	260.88	
			<i>For Class 55 Rating, Add</i>	390.86	
			<i>For Class 56 Rating, Add</i>	519.15	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,238.60	326.42
			<i>For Class 52 Rating, Deduct</i>	-191.84	
			<i>For Class 54 Rating, Add</i>	267.54	
			<i>For Class 55 Rating, Add</i>	400.78	
			<i>For Class 56 Rating, Add</i>	532.29	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,287.24	329.51
			<i>For Class 52 Rating, Deduct</i>	-196.68	
			<i>For Class 54 Rating, Add</i>	274.19	
			<i>For Class 55 Rating, Add</i>	410.70	
			<i>For Class 56 Rating, Add</i>	545.43	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,335.89	332.59
			<i>For Class 52 Rating, Deduct</i>	-201.52	
			<i>For Class 54 Rating, Add</i>	280.84	
			<i>For Class 55 Rating, Add</i>	420.62	
			<i>For Class 56 Rating, Add</i>	558.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,384.54	335.66
For Class 52 Rating, Deduct	-206.35	
For Class 54 Rating, Add	287.50	
For Class 55 Rating, Add	430.54	
For Class 56 Rating, Add	571.71	
40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,433.17	338.75
For Class 52 Rating, Deduct	-211.19	
For Class 54 Rating, Add	294.15	
For Class 55 Rating, Add	440.46	
For Class 56 Rating, Add	584.85	
40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	790.71	283.32
For Class 52 Rating, Deduct	-39.76	
For Class 54 Rating, Add	59.37	
For Class 55 Rating, Add	90.91	
For Class 56 Rating, Add	122.08	
40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	855.85	286.39
For Class 52 Rating, Deduct	-46.41	
For Class 54 Rating, Add	68.50	
For Class 55 Rating, Add	104.50	
For Class 56 Rating, Add	140.09	
40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	920.99	289.48
For Class 52 Rating, Deduct	-53.06	
For Class 54 Rating, Add	77.62	
For Class 55 Rating, Add	118.10	
For Class 56 Rating, Add	158.09	
40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	986.12	292.55
For Class 52 Rating, Deduct	-59.71	
For Class 54 Rating, Add	86.75	
For Class 55 Rating, Add	131.70	
For Class 56 Rating, Add	176.10	
40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,051.26	295.63
For Class 52 Rating, Deduct	-66.37	
For Class 54 Rating, Add	95.87	
For Class 55 Rating, Add	145.29	
For Class 56 Rating, Add	194.11	
40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,116.40	298.71
For Class 52 Rating, Deduct	-73.02	
For Class 54 Rating, Add	105.00	
For Class 55 Rating, Add	158.89	
For Class 56 Rating, Add	212.11	
40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,181.53	301.80
For Class 52 Rating, Deduct	-79.67	
For Class 54 Rating, Add	114.13	
For Class 55 Rating, Add	172.49	
For Class 56 Rating, Add	230.12	
40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,246.67	304.86
For Class 52 Rating, Deduct	-86.32	
For Class 54 Rating, Add	123.25	
For Class 55 Rating, Add	186.08	
For Class 56 Rating, Add	248.13	
40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,311.80	307.95
For Class 52 Rating, Deduct	-92.97	
For Class 54 Rating, Add	132.38	
For Class 55 Rating, Add	199.68	
For Class 56 Rating, Add	266.13	
40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,376.93	311.04
For Class 52 Rating, Deduct	-99.62	
For Class 54 Rating, Add	141.51	
For Class 55 Rating, Add	213.28	
For Class 56 Rating, Add	284.14	
40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,442.07	314.10
For Class 52 Rating, Deduct	-106.28	
For Class 54 Rating, Add	150.63	
For Class 55 Rating, Add	226.87	
For Class 56 Rating, Add	302.15	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,507.21	317.19
			<i>For Class 52 Rating, Deduct</i>	-112.93	
			<i>For Class 54 Rating, Add</i>	159.76	
			<i>For Class 55 Rating, Add</i>	240.47	
			<i>For Class 56 Rating, Add</i>	320.15	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,572.34	320.27
			<i>For Class 52 Rating, Deduct</i>	-119.58	
			<i>For Class 54 Rating, Add</i>	168.89	
			<i>For Class 55 Rating, Add</i>	254.07	
			<i>For Class 56 Rating, Add</i>	338.16	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,637.48	323.35
			<i>For Class 52 Rating, Deduct</i>	-126.23	
			<i>For Class 54 Rating, Add</i>	178.01	
			<i>For Class 55 Rating, Add</i>	267.66	
			<i>For Class 56 Rating, Add</i>	356.17	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,702.62	326.42
			<i>For Class 52 Rating, Deduct</i>	-132.88	
			<i>For Class 54 Rating, Add</i>	187.14	
			<i>For Class 55 Rating, Add</i>	281.26	
			<i>For Class 56 Rating, Add</i>	374.17	
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,767.75	329.51
			<i>For Class 52 Rating, Deduct</i>	-139.54	
			<i>For Class 54 Rating, Add</i>	196.27	
			<i>For Class 55 Rating, Add</i>	294.86	
			<i>For Class 56 Rating, Add</i>	392.18	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.89	332.59
			<i>For Class 52 Rating, Deduct</i>	-146.19	
			<i>For Class 54 Rating, Add</i>	205.39	
			<i>For Class 55 Rating, Add</i>	308.45	
			<i>For Class 56 Rating, Add</i>	410.19	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,898.03	335.66
			<i>For Class 52 Rating, Deduct</i>	-152.84	
			<i>For Class 54 Rating, Add</i>	214.52	
			<i>For Class 55 Rating, Add</i>	322.05	
			<i>For Class 56 Rating, Add</i>	428.19	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,963.16	338.75
			<i>For Class 52 Rating, Deduct</i>	-159.49	
			<i>For Class 54 Rating, Add</i>	223.65	
			<i>For Class 55 Rating, Add</i>	335.65	
			<i>For Class 56 Rating, Add</i>	446.20	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,028.30	341.82
			<i>For Class 52 Rating, Deduct</i>	-166.14	
			<i>For Class 54 Rating, Add</i>	232.77	
			<i>For Class 55 Rating, Add</i>	349.24	
			<i>For Class 56 Rating, Add</i>	464.21	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,093.44	344.91
			<i>For Class 52 Rating, Deduct</i>	-172.79	
			<i>For Class 54 Rating, Add</i>	241.90	
			<i>For Class 55 Rating, Add</i>	362.84	
			<i>For Class 56 Rating, Add</i>	482.21	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,158.56	347.98
			<i>For Class 52 Rating, Deduct</i>	-179.45	
			<i>For Class 54 Rating, Add</i>	251.02	
			<i>For Class 55 Rating, Add</i>	376.44	
			<i>For Class 56 Rating, Add</i>	500.22	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,223.70	351.06
			<i>For Class 52 Rating, Deduct</i>	-186.10	
			<i>For Class 54 Rating, Add</i>	260.15	
			<i>For Class 55 Rating, Add</i>	390.04	
			<i>For Class 56 Rating, Add</i>	518.23	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,288.84	354.15
			<i>For Class 52 Rating, Deduct</i>	-192.75	
			<i>For Class 54 Rating, Add</i>	269.28	
			<i>For Class 55 Rating, Add</i>	403.63	
			<i>For Class 56 Rating, Add</i>	536.23	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,353.97	357.23
			<i>For Class 52 Rating, Deduct</i>	-199.40	
			<i>For Class 54 Rating, Add</i>	278.40	
			<i>For Class 55 Rating, Add</i>	417.23	
			<i>For Class 56 Rating, Add</i>	554.24	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,419.11	360.30
<i>For Class 52 Rating, Deduct</i>	-206.05	
<i>For Class 54 Rating, Add</i>	287.53	
<i>For Class 55 Rating, Add</i>	430.83	
<i>For Class 56 Rating, Add</i>	572.25	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,484.25	363.38
<i>For Class 52 Rating, Deduct</i>	-212.70	
<i>For Class 54 Rating, Add</i>	296.66	
<i>For Class 55 Rating, Add</i>	444.42	
<i>For Class 56 Rating, Add</i>	590.25	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,549.38	366.47
<i>For Class 52 Rating, Deduct</i>	-219.36	
<i>For Class 54 Rating, Add</i>	305.78	
<i>For Class 55 Rating, Add</i>	458.02	
<i>For Class 56 Rating, Add</i>	608.26	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,614.52	369.53
<i>For Class 52 Rating, Deduct</i>	-226.01	
<i>For Class 54 Rating, Add</i>	314.91	
<i>For Class 55 Rating, Add</i>	471.62	
<i>For Class 56 Rating, Add</i>	626.27	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,679.66	372.62
<i>For Class 52 Rating, Deduct</i>	-232.66	
<i>For Class 54 Rating, Add</i>	324.04	
<i>For Class 55 Rating, Add</i>	485.21	
<i>For Class 56 Rating, Add</i>	644.27	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.79	375.70
<i>For Class 52 Rating, Deduct</i>	-239.31	
<i>For Class 54 Rating, Add</i>	333.16	
<i>For Class 55 Rating, Add</i>	498.81	
<i>For Class 56 Rating, Add</i>	662.28	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.93	378.79
<i>For Class 52 Rating, Deduct</i>	-245.96	
<i>For Class 54 Rating, Add</i>	342.29	
<i>For Class 55 Rating, Add</i>	512.41	
<i>For Class 56 Rating, Add</i>	680.29	
40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,875.07	381.85
<i>For Class 52 Rating, Deduct</i>	-252.61	
<i>For Class 54 Rating, Add</i>	351.42	
<i>For Class 55 Rating, Add</i>	526.00	
<i>For Class 56 Rating, Add</i>	698.29	
40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.20	384.94
<i>For Class 52 Rating, Deduct</i>	-259.27	
<i>For Class 54 Rating, Add</i>	360.54	
<i>For Class 55 Rating, Add</i>	539.60	
<i>For Class 56 Rating, Add</i>	716.30	
40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.34	388.02
<i>For Class 52 Rating, Deduct</i>	-265.92	
<i>For Class 54 Rating, Add</i>	369.67	
<i>For Class 55 Rating, Add</i>	553.20	
<i>For Class 56 Rating, Add</i>	734.31	
40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,070.47	391.09
<i>For Class 52 Rating, Deduct</i>	-272.57	
<i>For Class 54 Rating, Add</i>	378.80	
<i>For Class 55 Rating, Add</i>	566.79	
<i>For Class 56 Rating, Add</i>	752.31	
40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,135.60	394.18
<i>For Class 52 Rating, Deduct</i>	-279.22	
<i>For Class 54 Rating, Add</i>	387.92	
<i>For Class 55 Rating, Add</i>	580.39	
<i>For Class 56 Rating, Add</i>	770.32	
40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,200.74	397.25
<i>For Class 52 Rating, Deduct</i>	-285.87	
<i>For Class 54 Rating, Add</i>	397.05	
<i>For Class 55 Rating, Add</i>	593.99	
<i>For Class 56 Rating, Add</i>	788.33	
40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,265.88	400.34
<i>For Class 52 Rating, Deduct</i>	-292.52	
<i>For Class 54 Rating, Add</i>	406.18	
<i>For Class 55 Rating, Add</i>	607.58	
<i>For Class 56 Rating, Add</i>	806.33	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1149		10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>			
40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	988.48		344.91
		For Class 52 Rating, Deduct	-51.25		
		For Class 54 Rating, Add	76.15		
		For Class 55 Rating, Add	116.44		
		For Class 56 Rating, Add	156.25		
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,072.84		347.98
		For Class 52 Rating, Deduct	-60.02		
		For Class 54 Rating, Add	88.17		
		For Class 55 Rating, Add	134.32		
		For Class 56 Rating, Add	179.93		
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,157.23		351.06
		For Class 52 Rating, Deduct	-68.79		
		For Class 54 Rating, Add	100.18		
		For Class 55 Rating, Add	152.21		
		For Class 56 Rating, Add	203.62		
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,241.61		354.15
		For Class 52 Rating, Deduct	-77.55		
		For Class 54 Rating, Add	112.19		
		For Class 55 Rating, Add	170.10		
		For Class 56 Rating, Add	227.30		
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,325.98		357.23
		For Class 52 Rating, Deduct	-86.32		
		For Class 54 Rating, Add	124.21		
		For Class 55 Rating, Add	187.99		
		For Class 56 Rating, Add	250.98		
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,410.36		360.30
		For Class 52 Rating, Deduct	-95.09		
		For Class 54 Rating, Add	136.22		
		For Class 55 Rating, Add	205.87		
		For Class 56 Rating, Add	274.67		
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,494.74		363.38
		For Class 52 Rating, Deduct	-103.86		
		For Class 54 Rating, Add	148.23		
		For Class 55 Rating, Add	223.76		
		For Class 56 Rating, Add	298.35		
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,579.11		366.47
		For Class 52 Rating, Deduct	-112.63		
		For Class 54 Rating, Add	160.24		
		For Class 55 Rating, Add	241.65		
		For Class 56 Rating, Add	322.03		
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,663.49		369.53
		For Class 52 Rating, Deduct	-121.39		
		For Class 54 Rating, Add	172.26		
		For Class 55 Rating, Add	259.54		
		For Class 56 Rating, Add	345.71		
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,747.87		372.62
		For Class 52 Rating, Deduct	-130.16		
		For Class 54 Rating, Add	184.27		
		For Class 55 Rating, Add	277.42		
		For Class 56 Rating, Add	369.40		
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,832.24		375.70
		For Class 52 Rating, Deduct	-138.93		
		For Class 54 Rating, Add	196.28		
		For Class 55 Rating, Add	295.31		
		For Class 56 Rating, Add	393.08		
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,916.62		378.79
		For Class 52 Rating, Deduct	-147.70		
		For Class 54 Rating, Add	208.29		
		For Class 55 Rating, Add	313.20		
		For Class 56 Rating, Add	416.76		
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,001.00		381.85
		For Class 52 Rating, Deduct	-156.47		
		For Class 54 Rating, Add	220.31		
		For Class 55 Rating, Add	331.09		
		For Class 56 Rating, Add	440.44		
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,085.37		384.94
		For Class 52 Rating, Deduct	-165.23		
		For Class 54 Rating, Add	232.32		
		For Class 55 Rating, Add	348.97		
		For Class 56 Rating, Add	464.12		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,169.75	388.02
<i>For Class 52 Rating, Deduct</i>	-174.00	
<i>For Class 54 Rating, Add</i>	244.33	
<i>For Class 55 Rating, Add</i>	366.86	
<i>For Class 56 Rating, Add</i>	487.81	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,254.12	391.09
<i>For Class 52 Rating, Deduct</i>	-182.77	
<i>For Class 54 Rating, Add</i>	256.34	
<i>For Class 55 Rating, Add</i>	384.75	
<i>For Class 56 Rating, Add</i>	511.49	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,338.49	394.18
<i>For Class 52 Rating, Deduct</i>	-191.54	
<i>For Class 54 Rating, Add</i>	268.36	
<i>For Class 55 Rating, Add</i>	402.63	
<i>For Class 56 Rating, Add</i>	535.17	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,422.87	397.25
<i>For Class 52 Rating, Deduct</i>	-200.31	
<i>For Class 54 Rating, Add</i>	280.37	
<i>For Class 55 Rating, Add</i>	420.52	
<i>For Class 56 Rating, Add</i>	558.85	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,507.25	400.34
<i>For Class 52 Rating, Deduct</i>	-209.07	
<i>For Class 54 Rating, Add</i>	292.38	
<i>For Class 55 Rating, Add</i>	438.41	
<i>For Class 56 Rating, Add</i>	582.54	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,591.63	403.41
<i>For Class 52 Rating, Deduct</i>	-217.84	
<i>For Class 54 Rating, Add</i>	304.39	
<i>For Class 55 Rating, Add</i>	456.30	
<i>For Class 56 Rating, Add</i>	606.22	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,676.01	406.49
<i>For Class 52 Rating, Deduct</i>	-226.61	
<i>For Class 54 Rating, Add</i>	316.41	
<i>For Class 55 Rating, Add</i>	474.19	
<i>For Class 56 Rating, Add</i>	629.90	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,760.39	409.58
<i>For Class 52 Rating, Deduct</i>	-235.38	
<i>For Class 54 Rating, Add</i>	328.42	
<i>For Class 55 Rating, Add</i>	492.07	
<i>For Class 56 Rating, Add</i>	653.59	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,844.76	412.65
<i>For Class 52 Rating, Deduct</i>	-244.15	
<i>For Class 54 Rating, Add</i>	340.43	
<i>For Class 55 Rating, Add</i>	509.96	
<i>For Class 56 Rating, Add</i>	677.27	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,929.14	415.73
<i>For Class 52 Rating, Deduct</i>	-252.92	
<i>For Class 54 Rating, Add</i>	352.44	
<i>For Class 55 Rating, Add</i>	527.85	
<i>For Class 56 Rating, Add</i>	700.95	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,013.52	418.81
<i>For Class 52 Rating, Deduct</i>	-261.68	
<i>For Class 54 Rating, Add</i>	364.46	
<i>For Class 55 Rating, Add</i>	545.74	
<i>For Class 56 Rating, Add</i>	724.63	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,097.89	421.90
<i>For Class 52 Rating, Deduct</i>	-270.45	
<i>For Class 54 Rating, Add</i>	376.47	
<i>For Class 55 Rating, Add</i>	563.62	
<i>For Class 56 Rating, Add</i>	748.32	
40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,182.27	424.96
<i>For Class 52 Rating, Deduct</i>	-279.22	
<i>For Class 54 Rating, Add</i>	388.48	
<i>For Class 55 Rating, Add</i>	581.51	
<i>For Class 56 Rating, Add</i>	772.00	
40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,266.65	428.05
<i>For Class 52 Rating, Deduct</i>	-287.99	
<i>For Class 54 Rating, Add</i>	400.49	
<i>For Class 55 Rating, Add</i>	599.40	
<i>For Class 56 Rating, Add</i>	795.68	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,351.01	431.14
		<i>For Class 52 Rating, Deduct</i>	-296.76	
		<i>For Class 54 Rating, Add</i>	412.51	
		<i>For Class 55 Rating, Add</i>	617.28	
		<i>For Class 56 Rating, Add</i>	819.36	
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,435.39	434.22
		<i>For Class 52 Rating, Deduct</i>	-305.53	
		<i>For Class 54 Rating, Add</i>	424.52	
		<i>For Class 55 Rating, Add</i>	635.17	
		<i>For Class 56 Rating, Add</i>	843.05	
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,519.77	437.29
		<i>For Class 52 Rating, Deduct</i>	-314.29	
		<i>For Class 54 Rating, Add</i>	436.53	
		<i>For Class 55 Rating, Add</i>	653.06	
		<i>For Class 56 Rating, Add</i>	866.73	
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,604.14	440.37
		<i>For Class 52 Rating, Deduct</i>	-323.06	
		<i>For Class 54 Rating, Add</i>	448.54	
		<i>For Class 55 Rating, Add</i>	670.95	
		<i>For Class 56 Rating, Add</i>	890.41	
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,688.52	443.46
		<i>For Class 52 Rating, Deduct</i>	-331.83	
		<i>For Class 54 Rating, Add</i>	460.56	
		<i>For Class 55 Rating, Add</i>	688.83	
		<i>For Class 56 Rating, Add</i>	914.09	
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.90	446.52
		<i>For Class 52 Rating, Deduct</i>	-340.60	
		<i>For Class 54 Rating, Add</i>	472.57	
		<i>For Class 55 Rating, Add</i>	706.72	
		<i>For Class 56 Rating, Add</i>	937.78	
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,857.27	449.61
		<i>For Class 52 Rating, Deduct</i>	-349.37	
		<i>For Class 54 Rating, Add</i>	484.58	
		<i>For Class 55 Rating, Add</i>	724.61	
		<i>For Class 56 Rating, Add</i>	961.46	
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,941.65	452.69
		<i>For Class 52 Rating, Deduct</i>	-358.13	
		<i>For Class 54 Rating, Add</i>	496.59	
		<i>For Class 55 Rating, Add</i>	742.50	
		<i>For Class 56 Rating, Add</i>	985.14	
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,026.03	455.77
		<i>For Class 52 Rating, Deduct</i>	-366.90	
		<i>For Class 54 Rating, Add</i>	508.61	
		<i>For Class 55 Rating, Add</i>	760.38	
		<i>For Class 56 Rating, Add</i>	1,008.82	
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,110.41	458.84
		<i>For Class 52 Rating, Deduct</i>	-375.67	
		<i>For Class 54 Rating, Add</i>	520.62	
		<i>For Class 55 Rating, Add</i>	778.27	
		<i>For Class 56 Rating, Add</i>	1,032.51	
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,194.79	461.93
		<i>For Class 52 Rating, Deduct</i>	-384.44	
		<i>For Class 54 Rating, Add</i>	532.63	
		<i>For Class 55 Rating, Add</i>	796.16	
		<i>For Class 56 Rating, Add</i>	1,056.19	
40 05 19 00-1189		12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,274.41	431.14
		<i>For Class 52 Rating, Deduct</i>	-68.33	
		<i>For Class 54 Rating, Add</i>	101.02	
		<i>For Class 55 Rating, Add</i>	154.20	
		<i>For Class 56 Rating, Add</i>	206.77	
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.41	434.22
		<i>For Class 52 Rating, Deduct</i>	-79.37	
		<i>For Class 54 Rating, Add</i>	116.12	
		<i>For Class 55 Rating, Add</i>	176.69	
		<i>For Class 56 Rating, Add</i>	236.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,484.40	437.29
<i>For Class 52 Rating, Deduct</i>	-90.40	
<i>For Class 54 Rating, Add</i>	131.23	
<i>For Class 55 Rating, Add</i>	199.17	
<i>For Class 56 Rating, Add</i>	266.29	
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,589.39	440.37
<i>For Class 52 Rating, Deduct</i>	-101.44	
<i>For Class 54 Rating, Add</i>	146.33	
<i>For Class 55 Rating, Add</i>	221.66	
<i>For Class 56 Rating, Add</i>	296.06	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,694.38	443.46
<i>For Class 52 Rating, Deduct</i>	-112.47	
<i>For Class 54 Rating, Add</i>	161.44	
<i>For Class 55 Rating, Add</i>	244.14	
<i>For Class 56 Rating, Add</i>	325.82	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.38	446.52
<i>For Class 52 Rating, Deduct</i>	-123.51	
<i>For Class 54 Rating, Add</i>	176.54	
<i>For Class 55 Rating, Add</i>	266.63	
<i>For Class 56 Rating, Add</i>	355.59	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,904.36	449.61
<i>For Class 52 Rating, Deduct</i>	-134.55	
<i>For Class 54 Rating, Add</i>	191.65	
<i>For Class 55 Rating, Add</i>	289.11	
<i>For Class 56 Rating, Add</i>	385.35	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,009.36	452.69
<i>For Class 52 Rating, Deduct</i>	-145.58	
<i>For Class 54 Rating, Add</i>	206.75	
<i>For Class 55 Rating, Add</i>	311.60	
<i>For Class 56 Rating, Add</i>	415.12	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,114.36	455.77
<i>For Class 52 Rating, Deduct</i>	-156.62	
<i>For Class 54 Rating, Add</i>	221.86	
<i>For Class 55 Rating, Add</i>	334.08	
<i>For Class 56 Rating, Add</i>	444.88	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,219.34	458.84
<i>For Class 52 Rating, Deduct</i>	-167.65	
<i>For Class 54 Rating, Add</i>	236.96	
<i>For Class 55 Rating, Add</i>	356.56	
<i>For Class 56 Rating, Add</i>	474.64	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,324.34	461.93
<i>For Class 52 Rating, Deduct</i>	-178.69	
<i>For Class 54 Rating, Add</i>	252.07	
<i>For Class 55 Rating, Add</i>	379.05	
<i>For Class 56 Rating, Add</i>	504.41	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,429.33	465.01
<i>For Class 52 Rating, Deduct</i>	-189.72	
<i>For Class 54 Rating, Add</i>	267.17	
<i>For Class 55 Rating, Add</i>	401.53	
<i>For Class 56 Rating, Add</i>	534.17	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,534.32	468.08
<i>For Class 52 Rating, Deduct</i>	-200.76	
<i>For Class 54 Rating, Add</i>	282.28	
<i>For Class 55 Rating, Add</i>	424.02	
<i>For Class 56 Rating, Add</i>	563.94	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,639.30	471.17
<i>For Class 52 Rating, Deduct</i>	-211.80	
<i>For Class 54 Rating, Add</i>	297.38	
<i>For Class 55 Rating, Add</i>	446.50	
<i>For Class 56 Rating, Add</i>	593.70	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,744.30	474.24
<i>For Class 52 Rating, Deduct</i>	-222.83	
<i>For Class 54 Rating, Add</i>	312.49	
<i>For Class 55 Rating, Add</i>	468.99	
<i>For Class 56 Rating, Add</i>	623.46	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,849.28	477.33
<i>For Class 52 Rating, Deduct</i>	-233.87	
<i>For Class 54 Rating, Add</i>	327.59	
<i>For Class 55 Rating, Add</i>	491.47	
<i>For Class 56 Rating, Add</i>	653.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA		12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,954.28	480.40
			<i>For Class 52 Rating, Deduct</i>	-244.90	
			<i>For Class 54 Rating, Add</i>	342.69	
			<i>For Class 55 Rating, Add</i>	513.96	
			<i>For Class 56 Rating, Add</i>	682.99	
40 05 19 00-1207	EA		12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,059.27	483.48
			<i>For Class 52 Rating, Deduct</i>	-255.94	
			<i>For Class 54 Rating, Add</i>	357.80	
			<i>For Class 55 Rating, Add</i>	536.44	
			<i>For Class 56 Rating, Add</i>	712.75	
40 05 19 00-1208	EA		12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,164.26	486.57
			<i>For Class 52 Rating, Deduct</i>	-266.98	
			<i>For Class 54 Rating, Add</i>	372.90	
			<i>For Class 55 Rating, Add</i>	558.93	
			<i>For Class 56 Rating, Add</i>	742.52	
40 05 19 00-1209	EA		12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,269.25	489.64
			<i>For Class 52 Rating, Deduct</i>	-278.01	
			<i>For Class 54 Rating, Add</i>	388.01	
			<i>For Class 55 Rating, Add</i>	581.41	
			<i>For Class 56 Rating, Add</i>	772.28	
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,374.25	492.72
			<i>For Class 52 Rating, Deduct</i>	-289.05	
			<i>For Class 54 Rating, Add</i>	403.11	
			<i>For Class 55 Rating, Add</i>	603.89	
			<i>For Class 56 Rating, Add</i>	802.05	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,479.24	495.80
			<i>For Class 52 Rating, Deduct</i>	-300.08	
			<i>For Class 54 Rating, Add</i>	418.22	
			<i>For Class 55 Rating, Add</i>	626.38	
			<i>For Class 56 Rating, Add</i>	831.81	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,584.23	498.89
			<i>For Class 52 Rating, Deduct</i>	-311.12	
			<i>For Class 54 Rating, Add</i>	433.32	
			<i>For Class 55 Rating, Add</i>	648.86	
			<i>For Class 56 Rating, Add</i>	861.57	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,689.23	501.95
			<i>For Class 52 Rating, Deduct</i>	-322.15	
			<i>For Class 54 Rating, Add</i>	448.43	
			<i>For Class 55 Rating, Add</i>	671.35	
			<i>For Class 56 Rating, Add</i>	891.34	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,794.21	505.04
			<i>For Class 52 Rating, Deduct</i>	-333.19	
			<i>For Class 54 Rating, Add</i>	463.53	
			<i>For Class 55 Rating, Add</i>	693.83	
			<i>For Class 56 Rating, Add</i>	921.10	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,899.21	508.13
			<i>For Class 52 Rating, Deduct</i>	-344.23	
			<i>For Class 54 Rating, Add</i>	478.64	
			<i>For Class 55 Rating, Add</i>	716.32	
			<i>For Class 56 Rating, Add</i>	950.87	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,004.20	511.20
			<i>For Class 52 Rating, Deduct</i>	-355.26	
			<i>For Class 54 Rating, Add</i>	493.74	
			<i>For Class 55 Rating, Add</i>	738.80	
			<i>For Class 56 Rating, Add</i>	980.63	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,109.18	514.28
			<i>For Class 52 Rating, Deduct</i>	-366.30	
			<i>For Class 54 Rating, Add</i>	508.85	
			<i>For Class 55 Rating, Add</i>	761.29	
			<i>For Class 56 Rating, Add</i>	1,010.40	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.17	517.36
			<i>For Class 52 Rating, Deduct</i>	-377.33	
			<i>For Class 54 Rating, Add</i>	523.95	
			<i>For Class 55 Rating, Add</i>	783.77	
			<i>For Class 56 Rating, Add</i>	1,040.16	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,319.17	520.44
			<i>For Class 52 Rating, Deduct</i>	-388.37	
			<i>For Class 54 Rating, Add</i>	539.06	
			<i>For Class 55 Rating, Add</i>	806.26	
			<i>For Class 56 Rating, Add</i>	1,069.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,424.15	523.51
<i>For Class 52 Rating, Deduct</i>	-399.40	
<i>For Class 54 Rating, Add</i>	554.16	
<i>For Class 55 Rating, Add</i>	828.74	
<i>For Class 56 Rating, Add</i>	1,099.69	
40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,529.15	526.60
<i>For Class 52 Rating, Deduct</i>	-410.44	
<i>For Class 54 Rating, Add</i>	569.27	
<i>For Class 55 Rating, Add</i>	851.22	
<i>For Class 56 Rating, Add</i>	1,129.45	
40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,634.14	529.67
<i>For Class 52 Rating, Deduct</i>	-421.48	
<i>For Class 54 Rating, Add</i>	584.37	
<i>For Class 55 Rating, Add</i>	873.71	
<i>For Class 56 Rating, Add</i>	1,159.21	
40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,739.13	532.76
<i>For Class 52 Rating, Deduct</i>	-432.51	
<i>For Class 54 Rating, Add</i>	599.48	
<i>For Class 55 Rating, Add</i>	896.19	
<i>For Class 56 Rating, Add</i>	1,188.98	
40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,844.12	535.83
<i>For Class 52 Rating, Deduct</i>	-443.55	
<i>For Class 54 Rating, Add</i>	614.58	
<i>For Class 55 Rating, Add</i>	918.68	
<i>For Class 56 Rating, Add</i>	1,218.74	
40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,949.12	538.91
<i>For Class 52 Rating, Deduct</i>	-454.58	
<i>For Class 54 Rating, Add</i>	629.69	
<i>For Class 55 Rating, Add</i>	941.16	
<i>For Class 56 Rating, Add</i>	1,248.51	
40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,054.11	542.00
<i>For Class 52 Rating, Deduct</i>	-465.62	
<i>For Class 54 Rating, Add</i>	644.79	
<i>For Class 55 Rating, Add</i>	963.65	
<i>For Class 56 Rating, Add</i>	1,278.27	
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,159.10	545.07
<i>For Class 52 Rating, Deduct</i>	-476.66	
<i>For Class 54 Rating, Add</i>	659.89	
<i>For Class 55 Rating, Add</i>	986.13	
<i>For Class 56 Rating, Add</i>	1,308.03	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,264.10	548.15
<i>For Class 52 Rating, Deduct</i>	-487.69	
<i>For Class 54 Rating, Add</i>	675.00	
<i>For Class 55 Rating, Add</i>	1,008.62	
<i>For Class 56 Rating, Add</i>	1,337.80	
40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,670.31	517.36
<i>For Class 52 Rating, Deduct</i>	-97.51	
<i>For Class 54 Rating, Add</i>	142.37	
<i>For Class 55 Rating, Add</i>	216.49	
<i>For Class 56 Rating, Add</i>	289.72	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,797.29	520.44
<i>For Class 52 Rating, Deduct</i>	-110.96	
<i>For Class 54 Rating, Add</i>	160.77	
<i>For Class 55 Rating, Add</i>	243.88	
<i>For Class 56 Rating, Add</i>	325.97	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,924.27	523.51
<i>For Class 52 Rating, Deduct</i>	-124.42	
<i>For Class 54 Rating, Add</i>	179.18	
<i>For Class 55 Rating, Add</i>	271.27	
<i>For Class 56 Rating, Add</i>	362.22	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,051.25	526.60
<i>For Class 52 Rating, Deduct</i>	-137.87	
<i>For Class 54 Rating, Add</i>	197.58	
<i>For Class 55 Rating, Add</i>	298.65	
<i>For Class 56 Rating, Add</i>	398.47	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,178.23	529.67
			<i>For Class 52 Rating, Deduct</i>	-151.33	
			<i>For Class 54 Rating, Add</i>	215.98	
			<i>For Class 55 Rating, Add</i>	326.04	
			<i>For Class 56 Rating, Add</i>	434.72	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,305.21	532.76
			<i>For Class 52 Rating, Deduct</i>	-164.78	
			<i>For Class 54 Rating, Add</i>	234.39	
			<i>For Class 55 Rating, Add</i>	353.43	
			<i>For Class 56 Rating, Add</i>	470.97	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,432.19	535.83
			<i>For Class 52 Rating, Deduct</i>	-178.24	
			<i>For Class 54 Rating, Add</i>	252.79	
			<i>For Class 55 Rating, Add</i>	380.82	
			<i>For Class 56 Rating, Add</i>	507.22	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,559.18	538.91
			<i>For Class 52 Rating, Deduct</i>	-191.69	
			<i>For Class 54 Rating, Add</i>	271.19	
			<i>For Class 55 Rating, Add</i>	408.21	
			<i>For Class 56 Rating, Add</i>	543.47	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,686.15	542.00
			<i>For Class 52 Rating, Deduct</i>	-205.14	
			<i>For Class 54 Rating, Add</i>	289.60	
			<i>For Class 55 Rating, Add</i>	435.59	
			<i>For Class 56 Rating, Add</i>	579.72	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,813.14	545.07
			<i>For Class 52 Rating, Deduct</i>	-218.60	
			<i>For Class 54 Rating, Add</i>	308.00	
			<i>For Class 55 Rating, Add</i>	462.98	
			<i>For Class 56 Rating, Add</i>	615.98	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,940.12	548.15
			<i>For Class 52 Rating, Deduct</i>	-232.05	
			<i>For Class 54 Rating, Add</i>	326.40	
			<i>For Class 55 Rating, Add</i>	490.37	
			<i>For Class 56 Rating, Add</i>	652.23	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,067.10	551.23
			<i>For Class 52 Rating, Deduct</i>	-245.51	
			<i>For Class 54 Rating, Add</i>	344.81	
			<i>For Class 55 Rating, Add</i>	517.76	
			<i>For Class 56 Rating, Add</i>	688.48	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,194.07	554.32
			<i>For Class 52 Rating, Deduct</i>	-258.96	
			<i>For Class 54 Rating, Add</i>	363.21	
			<i>For Class 55 Rating, Add</i>	545.15	
			<i>For Class 56 Rating, Add</i>	724.73	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,321.05	557.38
			<i>For Class 52 Rating, Deduct</i>	-272.42	
			<i>For Class 54 Rating, Add</i>	381.61	
			<i>For Class 55 Rating, Add</i>	572.53	
			<i>For Class 56 Rating, Add</i>	760.98	
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,448.03	560.47
			<i>For Class 52 Rating, Deduct</i>	-285.87	
			<i>For Class 54 Rating, Add</i>	400.02	
			<i>For Class 55 Rating, Add</i>	599.92	
			<i>For Class 56 Rating, Add</i>	797.23	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,575.01	563.56
			<i>For Class 52 Rating, Deduct</i>	-299.33	
			<i>For Class 54 Rating, Add</i>	418.42	
			<i>For Class 55 Rating, Add</i>	627.31	
			<i>For Class 56 Rating, Add</i>	833.48	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,702.00	566.62
			<i>For Class 52 Rating, Deduct</i>	-312.78	
			<i>For Class 54 Rating, Add</i>	436.82	
			<i>For Class 55 Rating, Add</i>	654.70	
			<i>For Class 56 Rating, Add</i>	869.73	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,828.98	569.71
			<i>For Class 52 Rating, Deduct</i>	-326.24	
			<i>For Class 54 Rating, Add</i>	455.23	
			<i>For Class 55 Rating, Add</i>	682.09	
			<i>For Class 56 Rating, Add</i>	905.98	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,955.96	572.79
<i>For Class 52 Rating, Deduct</i>	-339.69	
<i>For Class 54 Rating, Add</i>	473.63	
<i>For Class 55 Rating, Add</i>	709.47	
<i>For Class 56 Rating, Add</i>	942.23	
40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,082.94	575.87
<i>For Class 52 Rating, Deduct</i>	-353.15	
<i>For Class 54 Rating, Add</i>	492.03	
<i>For Class 55 Rating, Add</i>	736.86	
<i>For Class 56 Rating, Add</i>	978.48	
40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,209.93	578.94
<i>For Class 52 Rating, Deduct</i>	-366.60	
<i>For Class 54 Rating, Add</i>	510.44	
<i>For Class 55 Rating, Add</i>	764.25	
<i>For Class 56 Rating, Add</i>	1,014.73	
40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,336.90	582.03
<i>For Class 52 Rating, Deduct</i>	-380.05	
<i>For Class 54 Rating, Add</i>	528.84	
<i>For Class 55 Rating, Add</i>	791.64	
<i>For Class 56 Rating, Add</i>	1,050.98	
40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,463.89	585.11
<i>For Class 52 Rating, Deduct</i>	-393.51	
<i>For Class 54 Rating, Add</i>	547.24	
<i>For Class 55 Rating, Add</i>	819.03	
<i>For Class 56 Rating, Add</i>	1,087.24	
40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,590.87	588.19
<i>For Class 52 Rating, Deduct</i>	-406.96	
<i>For Class 54 Rating, Add</i>	565.64	
<i>For Class 55 Rating, Add</i>	846.42	
<i>For Class 56 Rating, Add</i>	1,123.49	
40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,717.84	591.27
<i>For Class 52 Rating, Deduct</i>	-420.42	
<i>For Class 54 Rating, Add</i>	584.05	
<i>For Class 55 Rating, Add</i>	873.80	
<i>For Class 56 Rating, Add</i>	1,159.74	
40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,844.82	594.34
<i>For Class 52 Rating, Deduct</i>	-433.87	
<i>For Class 54 Rating, Add</i>	602.45	
<i>For Class 55 Rating, Add</i>	901.19	
<i>For Class 56 Rating, Add</i>	1,195.99	
40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,971.80	597.43
<i>For Class 52 Rating, Deduct</i>	-447.33	
<i>For Class 54 Rating, Add</i>	620.85	
<i>For Class 55 Rating, Add</i>	928.58	
<i>For Class 56 Rating, Add</i>	1,232.24	
40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,098.78	600.50
<i>For Class 52 Rating, Deduct</i>	-460.78	
<i>For Class 54 Rating, Add</i>	639.26	
<i>For Class 55 Rating, Add</i>	955.97	
<i>For Class 56 Rating, Add</i>	1,268.49	
40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,225.76	603.58
<i>For Class 52 Rating, Deduct</i>	-474.24	
<i>For Class 54 Rating, Add</i>	657.66	
<i>For Class 55 Rating, Add</i>	983.36	
<i>For Class 56 Rating, Add</i>	1,304.74	
40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,352.75	606.66
<i>For Class 52 Rating, Deduct</i>	-487.69	
<i>For Class 54 Rating, Add</i>	676.06	
<i>For Class 55 Rating, Add</i>	1,010.74	
<i>For Class 56 Rating, Add</i>	1,340.99	
40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,479.72	609.75
<i>For Class 52 Rating, Deduct</i>	-501.15	
<i>For Class 54 Rating, Add</i>	694.47	
<i>For Class 55 Rating, Add</i>	1,038.13	
<i>For Class 56 Rating, Add</i>	1,377.24	
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,606.71	612.81
<i>For Class 52 Rating, Deduct</i>	-514.60	
<i>For Class 54 Rating, Add</i>	712.87	
<i>For Class 55 Rating, Add</i>	1,065.52	
<i>For Class 56 Rating, Add</i>	1,413.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,733.69	615.90
For Class 52 Rating, Deduct	-528.06	
For Class 54 Rating, Add	731.27	
For Class 55 Rating, Add	1,092.91	
For Class 56 Rating, Add	1,449.74	
40 05 19 00-1263 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,860.66	618.99
For Class 52 Rating, Deduct	-541.51	
For Class 54 Rating, Add	749.68	
For Class 55 Rating, Add	1,120.30	
For Class 56 Rating, Add	1,485.99	
40 05 19 00-1264 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,987.65	622.05
For Class 52 Rating, Deduct	-554.96	
For Class 54 Rating, Add	768.08	
For Class 55 Rating, Add	1,147.68	
For Class 56 Rating, Add	1,522.24	
40 05 19 00-1265 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,114.63	625.14
For Class 52 Rating, Deduct	-568.42	
For Class 54 Rating, Add	786.48	
For Class 55 Rating, Add	1,175.07	
For Class 56 Rating, Add	1,558.49	
40 05 19 00-1266 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,241.61	628.22
For Class 52 Rating, Deduct	-581.87	
For Class 54 Rating, Add	804.89	
For Class 55 Rating, Add	1,202.46	
For Class 56 Rating, Add	1,594.75	
40 05 19 00-1267 EA 14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,368.59	631.30
For Class 52 Rating, Deduct	-595.33	
For Class 54 Rating, Add	823.29	
For Class 55 Rating, Add	1,229.85	
For Class 56 Rating, Add	1,631.00	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1269 EA 16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,944.47	591.27
For Class 52 Rating, Deduct	-115.35	
For Class 54 Rating, Add	168.04	
For Class 55 Rating, Add	255.34	
For Class 56 Rating, Add	341.59	
40 05 19 00-1270 EA 16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,092.06	594.34
For Class 52 Rating, Deduct	-131.07	
For Class 54 Rating, Add	189.54	
For Class 55 Rating, Add	287.33	
For Class 56 Rating, Add	383.92	
40 05 19 00-1271 EA 16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,239.65	597.43
For Class 52 Rating, Deduct	-146.79	
For Class 54 Rating, Add	211.03	
For Class 55 Rating, Add	319.31	
For Class 56 Rating, Add	426.25	
40 05 19 00-1272 EA 16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,387.24	600.50
For Class 52 Rating, Deduct	-162.51	
For Class 54 Rating, Add	232.53	
For Class 55 Rating, Add	351.29	
For Class 56 Rating, Add	468.58	
40 05 19 00-1273 EA 16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,534.84	603.58
For Class 52 Rating, Deduct	-178.24	
For Class 54 Rating, Add	254.02	
For Class 55 Rating, Add	383.28	
For Class 56 Rating, Add	510.92	
40 05 19 00-1274 EA 16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,682.44	606.66
For Class 52 Rating, Deduct	-193.96	
For Class 54 Rating, Add	275.52	
For Class 55 Rating, Add	415.27	
For Class 56 Rating, Add	553.25	
40 05 19 00-1275 EA 16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,830.03	609.75
For Class 52 Rating, Deduct	-209.68	
For Class 54 Rating, Add	297.01	
For Class 55 Rating, Add	447.25	
For Class 56 Rating, Add	595.58	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,977.63	612.81
<i>For Class 52 Rating, Deduct</i>	-225.40	
<i>For Class 54 Rating, Add</i>	318.51	
<i>For Class 55 Rating, Add</i>	479.24	
<i>For Class 56 Rating, Add</i>	637.91	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,125.23	615.90
<i>For Class 52 Rating, Deduct</i>	-241.12	
<i>For Class 54 Rating, Add</i>	340.00	
<i>For Class 55 Rating, Add</i>	511.22	
<i>For Class 56 Rating, Add</i>	680.25	
40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,272.82	618.99
<i>For Class 52 Rating, Deduct</i>	-256.85	
<i>For Class 54 Rating, Add</i>	361.50	
<i>For Class 55 Rating, Add</i>	543.21	
<i>For Class 56 Rating, Add</i>	722.58	
40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,420.42	622.05
<i>For Class 52 Rating, Deduct</i>	-272.57	
<i>For Class 54 Rating, Add</i>	383.00	
<i>For Class 55 Rating, Add</i>	575.19	
<i>For Class 56 Rating, Add</i>	764.91	
40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,568.02	625.14
<i>For Class 52 Rating, Deduct</i>	-288.29	
<i>For Class 54 Rating, Add</i>	404.49	
<i>For Class 55 Rating, Add</i>	607.18	
<i>For Class 56 Rating, Add</i>	807.24	
40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,715.61	628.22
<i>For Class 52 Rating, Deduct</i>	-304.01	
<i>For Class 54 Rating, Add</i>	425.99	
<i>For Class 55 Rating, Add</i>	639.16	
<i>For Class 56 Rating, Add</i>	849.58	
40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.21	631.30
<i>For Class 52 Rating, Deduct</i>	-319.74	
<i>For Class 54 Rating, Add</i>	447.48	
<i>For Class 55 Rating, Add</i>	671.15	
<i>For Class 56 Rating, Add</i>	891.91	
40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,010.80	634.37
<i>For Class 52 Rating, Deduct</i>	-335.46	
<i>For Class 54 Rating, Add</i>	468.98	
<i>For Class 55 Rating, Add</i>	703.13	
<i>For Class 56 Rating, Add</i>	934.24	
40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,158.39	637.46
<i>For Class 52 Rating, Deduct</i>	-351.18	
<i>For Class 54 Rating, Add</i>	490.47	
<i>For Class 55 Rating, Add</i>	735.12	
<i>For Class 56 Rating, Add</i>	976.57	
40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,305.98	640.54
<i>For Class 52 Rating, Deduct</i>	-366.90	
<i>For Class 54 Rating, Add</i>	511.97	
<i>For Class 55 Rating, Add</i>	767.10	
<i>For Class 56 Rating, Add</i>	1,018.90	
40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,453.58	643.61
<i>For Class 52 Rating, Deduct</i>	-382.62	
<i>For Class 54 Rating, Add</i>	533.46	
<i>For Class 55 Rating, Add</i>	799.09	
<i>For Class 56 Rating, Add</i>	1,061.23	
40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,601.17	646.70
<i>For Class 52 Rating, Deduct</i>	-398.35	
<i>For Class 54 Rating, Add</i>	554.96	
<i>For Class 55 Rating, Add</i>	831.07	
<i>For Class 56 Rating, Add</i>	1,103.57	
40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,748.77	649.77
<i>For Class 52 Rating, Deduct</i>	-414.07	
<i>For Class 54 Rating, Add</i>	576.45	
<i>For Class 55 Rating, Add</i>	863.06	
<i>For Class 56 Rating, Add</i>	1,145.90	
40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,896.37	652.86
<i>For Class 52 Rating, Deduct</i>	-429.79	
<i>For Class 54 Rating, Add</i>	597.95	
<i>For Class 55 Rating, Add</i>	895.04	
<i>For Class 56 Rating, Add</i>	1,188.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,043.96	655.93
			<i>For Class 52 Rating, Deduct</i>	-445.51	
			<i>For Class 54 Rating, Add</i>	619.44	
			<i>For Class 55 Rating, Add</i>	927.03	
			<i>For Class 56 Rating, Add</i>	1,230.56	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,191.56	659.01
			<i>For Class 52 Rating, Deduct</i>	-461.24	
			<i>For Class 54 Rating, Add</i>	640.94	
			<i>For Class 55 Rating, Add</i>	959.01	
			<i>For Class 56 Rating, Add</i>	1,272.90	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,339.16	662.10
			<i>For Class 52 Rating, Deduct</i>	-476.96	
			<i>For Class 54 Rating, Add</i>	662.44	
			<i>For Class 55 Rating, Add</i>	991.00	
			<i>For Class 56 Rating, Add</i>	1,315.23	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,486.75	665.18
			<i>For Class 52 Rating, Deduct</i>	-492.68	
			<i>For Class 54 Rating, Add</i>	683.93	
			<i>For Class 55 Rating, Add</i>	1,022.99	
			<i>For Class 56 Rating, Add</i>	1,357.56	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,634.35	668.25
			<i>For Class 52 Rating, Deduct</i>	-508.40	
			<i>For Class 54 Rating, Add</i>	705.43	
			<i>For Class 55 Rating, Add</i>	1,054.97	
			<i>For Class 56 Rating, Add</i>	1,399.89	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,781.95	671.33
			<i>For Class 52 Rating, Deduct</i>	-524.12	
			<i>For Class 54 Rating, Add</i>	726.92	
			<i>For Class 55 Rating, Add</i>	1,086.96	
			<i>For Class 56 Rating, Add</i>	1,442.23	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,929.54	674.42
			<i>For Class 52 Rating, Deduct</i>	-539.85	
			<i>For Class 54 Rating, Add</i>	748.42	
			<i>For Class 55 Rating, Add</i>	1,118.94	
			<i>For Class 56 Rating, Add</i>	1,484.56	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,077.13	677.48
			<i>For Class 52 Rating, Deduct</i>	-555.57	
			<i>For Class 54 Rating, Add</i>	769.91	
			<i>For Class 55 Rating, Add</i>	1,150.93	
			<i>For Class 56 Rating, Add</i>	1,526.89	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,224.73	680.57
			<i>For Class 52 Rating, Deduct</i>	-571.29	
			<i>For Class 54 Rating, Add</i>	791.41	
			<i>For Class 55 Rating, Add</i>	1,182.91	
			<i>For Class 56 Rating, Add</i>	1,569.22	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,372.31	683.65
			<i>For Class 52 Rating, Deduct</i>	-587.01	
			<i>For Class 54 Rating, Add</i>	812.90	
			<i>For Class 55 Rating, Add</i>	1,214.89	
			<i>For Class 56 Rating, Add</i>	1,611.55	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,519.91	686.74
			<i>For Class 52 Rating, Deduct</i>	-602.74	
			<i>For Class 54 Rating, Add</i>	834.40	
			<i>For Class 55 Rating, Add</i>	1,246.88	
			<i>For Class 56 Rating, Add</i>	1,653.88	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,667.51	689.80
			<i>For Class 52 Rating, Deduct</i>	-618.46	
			<i>For Class 54 Rating, Add</i>	855.89	
			<i>For Class 55 Rating, Add</i>	1,278.87	
			<i>For Class 56 Rating, Add</i>	1,696.22	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,815.10	692.89
			<i>For Class 52 Rating, Deduct</i>	-634.18	
			<i>For Class 54 Rating, Add</i>	877.39	
			<i>For Class 55 Rating, Add</i>	1,310.85	
			<i>For Class 56 Rating, Add</i>	1,738.55	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,962.70	695.98
			<i>For Class 52 Rating, Deduct</i>	-649.90	
			<i>For Class 54 Rating, Add</i>	898.88	
			<i>For Class 55 Rating, Add</i>	1,342.84	
			<i>For Class 56 Rating, Add</i>	1,780.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,110.30	699.04
<i>For Class 52 Rating, Deduct</i>	-665.62	
<i>For Class 54 Rating, Add</i>	920.38	
<i>For Class 55 Rating, Add</i>	1,374.82	
<i>For Class 56 Rating, Add</i>	1,823.21	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,257.89	702.13
<i>For Class 52 Rating, Deduct</i>	-681.35	
<i>For Class 54 Rating, Add</i>	941.87	
<i>For Class 55 Rating, Add</i>	1,406.81	
<i>For Class 56 Rating, Add</i>	1,865.55	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,405.49	705.21
<i>For Class 52 Rating, Deduct</i>	-697.07	
<i>For Class 54 Rating, Add</i>	963.37	
<i>For Class 55 Rating, Add</i>	1,438.79	
<i>For Class 56 Rating, Add</i>	1,907.88	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,239.73	666.41
<i>For Class 52 Rating, Deduct</i>	-135.30	
<i>For Class 54 Rating, Add</i>	196.62	
<i>For Class 55 Rating, Add</i>	298.53	
<i>For Class 56 Rating, Add</i>	399.21	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,409.30	669.50
<i>For Class 52 Rating, Deduct</i>	-153.44	
<i>For Class 54 Rating, Add</i>	221.41	
<i>For Class 55 Rating, Add</i>	335.41	
<i>For Class 56 Rating, Add</i>	448.02	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,578.89	672.56
<i>For Class 52 Rating, Deduct</i>	-171.58	
<i>For Class 54 Rating, Add</i>	246.21	
<i>For Class 55 Rating, Add</i>	372.30	
<i>For Class 56 Rating, Add</i>	496.84	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,748.47	675.65
<i>For Class 52 Rating, Deduct</i>	-189.72	
<i>For Class 54 Rating, Add</i>	271.00	
<i>For Class 55 Rating, Add</i>	409.19	
<i>For Class 56 Rating, Add</i>	545.66	
40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,918.06	678.73
<i>For Class 52 Rating, Deduct</i>	-207.87	
<i>For Class 54 Rating, Add</i>	295.79	
<i>For Class 55 Rating, Add</i>	446.08	
<i>For Class 56 Rating, Add</i>	594.48	
40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,087.65	681.80
<i>For Class 52 Rating, Deduct</i>	-226.01	
<i>For Class 54 Rating, Add</i>	320.59	
<i>For Class 55 Rating, Add</i>	482.97	
<i>For Class 56 Rating, Add</i>	643.30	
40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,257.23	684.88
<i>For Class 52 Rating, Deduct</i>	-244.15	
<i>For Class 54 Rating, Add</i>	345.38	
<i>For Class 55 Rating, Add</i>	519.86	
<i>For Class 56 Rating, Add</i>	692.12	
40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,426.82	687.97
<i>For Class 52 Rating, Deduct</i>	-262.29	
<i>For Class 54 Rating, Add</i>	370.18	
<i>For Class 55 Rating, Add</i>	556.75	
<i>For Class 56 Rating, Add</i>	740.94	
40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,596.40	691.05
<i>For Class 52 Rating, Deduct</i>	-280.43	
<i>For Class 54 Rating, Add</i>	394.97	
<i>For Class 55 Rating, Add</i>	593.64	
<i>For Class 56 Rating, Add</i>	769.75	
40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,765.98	694.12
<i>For Class 52 Rating, Deduct</i>	-298.57	
<i>For Class 54 Rating, Add</i>	419.76	
<i>For Class 55 Rating, Add</i>	630.53	
<i>For Class 56 Rating, Add</i>	838.57	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,935.57	697.21
			<i>For Class 52 Rating, Deduct</i>	-316.71	
			<i>For Class 54 Rating, Add</i>	444.56	
			<i>For Class 55 Rating, Add</i>	667.41	
			<i>For Class 56 Rating, Add</i>	887.39	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,105.16	700.28
			<i>For Class 52 Rating, Deduct</i>	-334.85	
			<i>For Class 54 Rating, Add</i>	469.35	
			<i>For Class 55 Rating, Add</i>	704.30	
			<i>For Class 56 Rating, Add</i>	936.21	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,274.74	703.36
			<i>For Class 52 Rating, Deduct</i>	-352.99	
			<i>For Class 54 Rating, Add</i>	494.14	
			<i>For Class 55 Rating, Add</i>	741.19	
			<i>For Class 56 Rating, Add</i>	985.03	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,444.33	706.44
			<i>For Class 52 Rating, Deduct</i>	-371.14	
			<i>For Class 54 Rating, Add</i>	518.94	
			<i>For Class 55 Rating, Add</i>	778.08	
			<i>For Class 56 Rating, Add</i>	1,033.85	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,613.90	709.52
			<i>For Class 52 Rating, Deduct</i>	-389.28	
			<i>For Class 54 Rating, Add</i>	543.73	
			<i>For Class 55 Rating, Add</i>	814.97	
			<i>For Class 56 Rating, Add</i>	1,082.67	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,783.48	712.60
			<i>For Class 52 Rating, Deduct</i>	-407.42	
			<i>For Class 54 Rating, Add</i>	568.52	
			<i>For Class 55 Rating, Add</i>	851.86	
			<i>For Class 56 Rating, Add</i>	1,131.49	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,953.07	715.68
			<i>For Class 52 Rating, Deduct</i>	-425.56	
			<i>For Class 54 Rating, Add</i>	593.32	
			<i>For Class 55 Rating, Add</i>	888.75	
			<i>For Class 56 Rating, Add</i>	1,180.31	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,122.66	718.75
			<i>For Class 52 Rating, Deduct</i>	-443.70	
			<i>For Class 54 Rating, Add</i>	618.11	
			<i>For Class 55 Rating, Add</i>	925.64	
			<i>For Class 56 Rating, Add</i>	1,229.13	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,292.24	721.84
			<i>For Class 52 Rating, Deduct</i>	-461.84	
			<i>For Class 54 Rating, Add</i>	642.91	
			<i>For Class 55 Rating, Add</i>	962.53	
			<i>For Class 56 Rating, Add</i>	1,277.95	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,461.83	724.91
			<i>For Class 52 Rating, Deduct</i>	-479.98	
			<i>For Class 54 Rating, Add</i>	667.70	
			<i>For Class 55 Rating, Add</i>	999.41	
			<i>For Class 56 Rating, Add</i>	1,326.76	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,631.41	727.99
			<i>For Class 52 Rating, Deduct</i>	-498.12	
			<i>For Class 54 Rating, Add</i>	692.49	
			<i>For Class 55 Rating, Add</i>	1,036.30	
			<i>For Class 56 Rating, Add</i>	1,375.58	
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,800.99	731.08
			<i>For Class 52 Rating, Deduct</i>	-516.26	
			<i>For Class 54 Rating, Add</i>	717.29	
			<i>For Class 55 Rating, Add</i>	1,073.19	
			<i>For Class 56 Rating, Add</i>	1,424.40	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,970.58	734.16
			<i>For Class 52 Rating, Deduct</i>	-534.40	
			<i>For Class 54 Rating, Add</i>	742.08	
			<i>For Class 55 Rating, Add</i>	1,110.08	
			<i>For Class 56 Rating, Add</i>	1,473.22	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,140.17	737.23
			<i>For Class 52 Rating, Deduct</i>	-552.55	
			<i>For Class 54 Rating, Add</i>	766.88	
			<i>For Class 55 Rating, Add</i>	1,146.97	
			<i>For Class 56 Rating, Add</i>	1,522.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,309.75	740.31
<i>For Class 52 Rating, Deduct</i>	-570.69	
<i>For Class 54 Rating, Add</i>	791.67	
<i>For Class 55 Rating, Add</i>	1,183.86	
<i>For Class 56 Rating, Add</i>	1,570.86	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,479.34	743.40
<i>For Class 52 Rating, Deduct</i>	-588.83	
<i>For Class 54 Rating, Add</i>	816.46	
<i>For Class 55 Rating, Add</i>	1,220.75	
<i>For Class 56 Rating, Add</i>	1,619.68	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,648.92	746.48
<i>For Class 52 Rating, Deduct</i>	-606.97	
<i>For Class 54 Rating, Add</i>	841.26	
<i>For Class 55 Rating, Add</i>	1,257.63	
<i>For Class 56 Rating, Add</i>	1,668.49	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,818.49	749.55
<i>For Class 52 Rating, Deduct</i>	-625.11	
<i>For Class 54 Rating, Add</i>	866.05	
<i>For Class 55 Rating, Add</i>	1,294.52	
<i>For Class 56 Rating, Add</i>	1,717.31	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,988.08	752.64
<i>For Class 52 Rating, Deduct</i>	-643.25	
<i>For Class 54 Rating, Add</i>	890.84	
<i>For Class 55 Rating, Add</i>	1,331.41	
<i>For Class 56 Rating, Add</i>	1,766.13	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,157.67	755.71
<i>For Class 52 Rating, Deduct</i>	-661.39	
<i>For Class 54 Rating, Add</i>	915.64	
<i>For Class 55 Rating, Add</i>	1,368.30	
<i>For Class 56 Rating, Add</i>	1,814.95	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,327.25	758.79
<i>For Class 52 Rating, Deduct</i>	-679.53	
<i>For Class 54 Rating, Add</i>	940.43	
<i>For Class 55 Rating, Add</i>	1,405.19	
<i>For Class 56 Rating, Add</i>	1,863.77	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,496.84	761.87
<i>For Class 52 Rating, Deduct</i>	-697.67	
<i>For Class 54 Rating, Add</i>	965.23	
<i>For Class 55 Rating, Add</i>	1,442.08	
<i>For Class 56 Rating, Add</i>	1,912.59	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,666.43	764.95
<i>For Class 52 Rating, Deduct</i>	-715.82	
<i>For Class 54 Rating, Add</i>	990.02	
<i>For Class 55 Rating, Add</i>	1,478.97	
<i>For Class 56 Rating, Add</i>	1,961.41	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,836.00	768.04
<i>For Class 52 Rating, Deduct</i>	-733.96	
<i>For Class 54 Rating, Add</i>	1,014.81	
<i>For Class 55 Rating, Add</i>	1,515.86	
<i>For Class 56 Rating, Add</i>	2,010.23	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,005.59	771.11
<i>For Class 52 Rating, Deduct</i>	-752.10	
<i>For Class 54 Rating, Add</i>	1,039.61	
<i>For Class 55 Rating, Add</i>	1,552.74	
<i>For Class 56 Rating, Add</i>	2,059.05	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,175.18	774.19
<i>For Class 52 Rating, Deduct</i>	-770.24	
<i>For Class 54 Rating, Add</i>	1,064.40	
<i>For Class 55 Rating, Add</i>	1,589.63	
<i>For Class 56 Rating, Add</i>	2,107.87	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,344.76	777.27
<i>For Class 52 Rating, Deduct</i>	-788.38	
<i>For Class 54 Rating, Add</i>	1,089.19	
<i>For Class 55 Rating, Add</i>	1,626.52	
<i>For Class 56 Rating, Add</i>	2,156.69	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,514.35	780.35
<i>For Class 52 Rating, Deduct</i>	-806.52	
<i>For Class 54 Rating, Add</i>	1,113.99	
<i>For Class 55 Rating, Add</i>	1,663.41	
<i>For Class 56 Rating, Add</i>	2,205.50	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346			20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,601.01	760.65
			For Class 52 Rating, Deduct	-159.34	
			For Class 54 Rating, Add	231.11	
			For Class 55 Rating, Add	350.68	
			For Class 56 Rating, Add	468.81	
40 05 19 00-1348	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,795.34	763.72
			For Class 52 Rating, Deduct	-180.20	
			For Class 54 Rating, Add	259.61	
			For Class 55 Rating, Add	393.09	
			For Class 56 Rating, Add	524.92	
40 05 19 00-1349	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,989.66	766.80
			For Class 52 Rating, Deduct	-201.06	
			For Class 54 Rating, Add	288.12	
			For Class 55 Rating, Add	435.49	
			For Class 56 Rating, Add	581.04	
40 05 19 00-1350	EA		20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,183.98	769.88
			For Class 52 Rating, Deduct	-221.93	
			For Class 54 Rating, Add	316.62	
			For Class 55 Rating, Add	477.90	
			For Class 56 Rating, Add	637.16	
40 05 19 00-1351	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,378.31	772.96
			For Class 52 Rating, Deduct	-242.79	
			For Class 54 Rating, Add	345.13	
			For Class 55 Rating, Add	520.30	
			For Class 56 Rating, Add	693.27	
40 05 19 00-1352	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,572.62	776.03
			For Class 52 Rating, Deduct	-263.65	
			For Class 54 Rating, Add	373.63	
			For Class 55 Rating, Add	562.71	
			For Class 56 Rating, Add	749.39	
40 05 19 00-1353	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,766.95	779.12
			For Class 52 Rating, Deduct	-284.51	
			For Class 54 Rating, Add	402.14	
			For Class 55 Rating, Add	605.11	
			For Class 56 Rating, Add	805.51	
40 05 19 00-1354	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,961.28	782.19
			For Class 52 Rating, Deduct	-305.37	
			For Class 54 Rating, Add	430.64	
			For Class 55 Rating, Add	647.52	
			For Class 56 Rating, Add	861.62	
40 05 19 00-1355	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,155.59	785.28
			For Class 52 Rating, Deduct	-326.24	
			For Class 54 Rating, Add	459.14	
			For Class 55 Rating, Add	689.92	
			For Class 56 Rating, Add	917.74	
40 05 19 00-1356	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,349.92	788.35
			For Class 52 Rating, Deduct	-347.10	
			For Class 54 Rating, Add	487.65	
			For Class 55 Rating, Add	732.33	
			For Class 56 Rating, Add	973.86	
40 05 19 00-1357	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,544.24	791.43
			For Class 52 Rating, Deduct	-367.96	
			For Class 54 Rating, Add	516.15	
			For Class 55 Rating, Add	774.73	
			For Class 56 Rating, Add	1,029.97	
40 05 19 00-1358	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,738.56	794.52
			For Class 52 Rating, Deduct	-388.82	
			For Class 54 Rating, Add	544.66	
			For Class 55 Rating, Add	817.14	
			For Class 56 Rating, Add	1,086.09	
40 05 19 00-1359	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,932.89	797.59
			For Class 52 Rating, Deduct	-409.69	
			For Class 54 Rating, Add	573.16	
			For Class 55 Rating, Add	859.55	
			For Class 56 Rating, Add	1,142.21	
40 05 19 00-1360	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,127.20	800.67
			For Class 52 Rating, Deduct	-430.55	
			For Class 54 Rating, Add	601.67	
			For Class 55 Rating, Add	901.95	
			For Class 56 Rating, Add	1,198.32	



Process Interconnections	40
Common Work Results For Process Interconnections	
40 05	40
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,321.52	803.75
<i>For Class 52 Rating, Deduct</i>	-451.41	
<i>For Class 54 Rating, Add</i>	630.17	
<i>For Class 55 Rating, Add</i>	944.36	
<i>For Class 56 Rating, Add</i>	1,254.44	
40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,515.85	806.84
<i>For Class 52 Rating, Deduct</i>	-472.27	
<i>For Class 54 Rating, Add</i>	658.68	
<i>For Class 55 Rating, Add</i>	986.76	
<i>For Class 56 Rating, Add</i>	1,310.56	
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,710.17	809.90
<i>For Class 52 Rating, Deduct</i>	-493.13	
<i>For Class 54 Rating, Add</i>	687.18	
<i>For Class 55 Rating, Add</i>	1,029.17	
<i>For Class 56 Rating, Add</i>	1,366.67	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,904.49	812.99
<i>For Class 52 Rating, Deduct</i>	-514.00	
<i>For Class 54 Rating, Add</i>	715.69	
<i>For Class 55 Rating, Add</i>	1,071.57	
<i>For Class 56 Rating, Add</i>	1,422.79	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,098.81	816.08
<i>For Class 52 Rating, Deduct</i>	-534.86	
<i>For Class 54 Rating, Add</i>	744.19	
<i>For Class 55 Rating, Add</i>	1,113.98	
<i>For Class 56 Rating, Add</i>	1,478.90	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,293.14	819.15
<i>For Class 52 Rating, Deduct</i>	-555.72	
<i>For Class 54 Rating, Add</i>	772.69	
<i>For Class 55 Rating, Add</i>	1,156.38	
<i>For Class 56 Rating, Add</i>	1,535.02	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,487.46	822.23
<i>For Class 52 Rating, Deduct</i>	-576.58	
<i>For Class 54 Rating, Add</i>	801.20	
<i>For Class 55 Rating, Add</i>	1,198.79	
<i>For Class 56 Rating, Add</i>	1,591.14	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,681.78	825.31
<i>For Class 52 Rating, Deduct</i>	-597.44	
<i>For Class 54 Rating, Add</i>	829.70	
<i>For Class 55 Rating, Add</i>	1,241.19	
<i>For Class 56 Rating, Add</i>	1,647.25	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,876.11	828.39
<i>For Class 52 Rating, Deduct</i>	-618.31	
<i>For Class 54 Rating, Add</i>	858.21	
<i>For Class 55 Rating, Add</i>	1,283.60	
<i>For Class 56 Rating, Add</i>	1,703.37	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,070.42	831.46
<i>For Class 52 Rating, Deduct</i>	-639.17	
<i>For Class 54 Rating, Add</i>	886.71	
<i>For Class 55 Rating, Add</i>	1,326.00	
<i>For Class 56 Rating, Add</i>	1,759.49	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,264.75	834.55
<i>For Class 52 Rating, Deduct</i>	-660.03	
<i>For Class 54 Rating, Add</i>	915.22	
<i>For Class 55 Rating, Add</i>	1,368.41	
<i>For Class 56 Rating, Add</i>	1,815.60	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,459.08	837.63
<i>For Class 52 Rating, Deduct</i>	-680.89	
<i>For Class 54 Rating, Add</i>	943.72	
<i>For Class 55 Rating, Add</i>	1,410.82	
<i>For Class 56 Rating, Add</i>	1,871.72	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,653.38	840.71
<i>For Class 52 Rating, Deduct</i>	-701.75	
<i>For Class 54 Rating, Add</i>	972.22	
<i>For Class 55 Rating, Add</i>	1,453.22	
<i>For Class 56 Rating, Add</i>	1,927.84	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,847.71	843.79
<i>For Class 52 Rating, Deduct</i>	-722.62	
<i>For Class 54 Rating, Add</i>	1,000.73	
<i>For Class 55 Rating, Add</i>	1,495.63	
<i>For Class 56 Rating, Add</i>	1,983.95	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,042.04	846.86
			<i>For Class 52 Rating, Deduct</i>	-743.48	
			<i>For Class 54 Rating, Add</i>	1,029.23	
			<i>For Class 55 Rating, Add</i>	1,538.03	
			<i>For Class 56 Rating, Add</i>	2,040.07	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,236.35	849.95
			<i>For Class 52 Rating, Deduct</i>	-764.34	
			<i>For Class 54 Rating, Add</i>	1,057.74	
			<i>For Class 55 Rating, Add</i>	1,580.44	
			<i>For Class 56 Rating, Add</i>	2,096.19	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,430.68	853.02
			<i>For Class 52 Rating, Deduct</i>	-785.20	
			<i>For Class 54 Rating, Add</i>	1,086.24	
			<i>For Class 55 Rating, Add</i>	1,622.84	
			<i>For Class 56 Rating, Add</i>	2,152.30	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,625.00	856.10
			<i>For Class 52 Rating, Deduct</i>	-806.07	
			<i>For Class 54 Rating, Add</i>	1,114.75	
			<i>For Class 55 Rating, Add</i>	1,665.25	
			<i>For Class 56 Rating, Add</i>	2,208.42	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,819.32	859.18
			<i>For Class 52 Rating, Deduct</i>	-826.93	
			<i>For Class 54 Rating, Add</i>	1,143.25	
			<i>For Class 55 Rating, Add</i>	1,707.65	
			<i>For Class 56 Rating, Add</i>	2,264.54	
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,013.65	862.27
			<i>For Class 52 Rating, Deduct</i>	-847.79	
			<i>For Class 54 Rating, Add</i>	1,171.76	
			<i>For Class 55 Rating, Add</i>	1,750.06	
			<i>For Class 56 Rating, Add</i>	2,320.65	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,207.97	865.33
			<i>For Class 52 Rating, Deduct</i>	-868.65	
			<i>For Class 54 Rating, Add</i>	1,200.26	
			<i>For Class 55 Rating, Add</i>	1,792.46	
			<i>For Class 56 Rating, Add</i>	2,376.77	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,402.29	868.42
			<i>For Class 52 Rating, Deduct</i>	-889.52	
			<i>For Class 54 Rating, Add</i>	1,228.76	
			<i>For Class 55 Rating, Add</i>	1,834.87	
			<i>For Class 56 Rating, Add</i>	2,432.89	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,596.62	871.51
			<i>For Class 52 Rating, Deduct</i>	-910.38	
			<i>For Class 54 Rating, Add</i>	1,257.27	
			<i>For Class 55 Rating, Add</i>	1,877.27	
			<i>For Class 56 Rating, Add</i>	2,489.00	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,790.94	874.57
			<i>For Class 52 Rating, Deduct</i>	-931.24	
			<i>For Class 54 Rating, Add</i>	1,285.77	
			<i>For Class 55 Rating, Add</i>	1,919.68	
			<i>For Class 56 Rating, Add</i>	2,545.12	
40 05 19 00-1385			24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,171.06	899.22
			<i>For Class 52 Rating, Deduct</i>	-198.95	
			<i>For Class 54 Rating, Add</i>	287.64	
			<i>For Class 55 Rating, Add</i>	436.02	
			<i>For Class 56 Rating, Add</i>	582.59	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,410.73	902.29
			<i>For Class 52 Rating, Deduct</i>	-224.80	
			<i>For Class 54 Rating, Add</i>	322.95	
			<i>For Class 55 Rating, Add</i>	488.54	
			<i>For Class 56 Rating, Add</i>	652.08	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,650.40	905.38
			<i>For Class 52 Rating, Deduct</i>	-250.65	
			<i>For Class 54 Rating, Add</i>	358.25	
			<i>For Class 55 Rating, Add</i>	541.05	
			<i>For Class 56 Rating, Add</i>	721.58	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,890.08	908.45
<i>For Class 52 Rating, Deduct</i>	-276.50	
<i>For Class 54 Rating, Add</i>	393.56	
<i>For Class 55 Rating, Add</i>	593.57	
<i>For Class 56 Rating, Add</i>	791.07	
40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,129.76	911.53
<i>For Class 52 Rating, Deduct</i>	-302.35	
<i>For Class 54 Rating, Add</i>	428.87	
<i>For Class 55 Rating, Add</i>	646.09	
<i>For Class 56 Rating, Add</i>	860.57	
40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,369.43	914.62
<i>For Class 52 Rating, Deduct</i>	-328.20	
<i>For Class 54 Rating, Add</i>	464.18	
<i>For Class 55 Rating, Add</i>	698.61	
<i>For Class 56 Rating, Add</i>	930.06	
40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.11	917.70
<i>For Class 52 Rating, Deduct</i>	-354.05	
<i>For Class 54 Rating, Add</i>	499.48	
<i>For Class 55 Rating, Add</i>	751.13	
<i>For Class 56 Rating, Add</i>	999.56	
40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,848.79	920.77
<i>For Class 52 Rating, Deduct</i>	-379.90	
<i>For Class 54 Rating, Add</i>	534.79	
<i>For Class 55 Rating, Add</i>	803.65	
<i>For Class 56 Rating, Add</i>	1,069.06	
40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,088.44	923.85
<i>For Class 52 Rating, Deduct</i>	-405.75	
<i>For Class 54 Rating, Add</i>	570.10	
<i>For Class 55 Rating, Add</i>	856.17	
<i>For Class 56 Rating, Add</i>	1,138.55	
40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,328.12	926.94
<i>For Class 52 Rating, Deduct</i>	-431.60	
<i>For Class 54 Rating, Add</i>	605.41	
<i>For Class 55 Rating, Add</i>	908.69	
<i>For Class 56 Rating, Add</i>	1,208.05	
40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,567.80	930.00
<i>For Class 52 Rating, Deduct</i>	-457.46	
<i>For Class 54 Rating, Add</i>	640.71	
<i>For Class 55 Rating, Add</i>	961.21	
<i>For Class 56 Rating, Add</i>	1,277.54	
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,807.47	933.09
<i>For Class 52 Rating, Deduct</i>	-483.31	
<i>For Class 54 Rating, Add</i>	676.02	
<i>For Class 55 Rating, Add</i>	1,013.73	
<i>For Class 56 Rating, Add</i>	1,347.04	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,047.15	936.17
<i>For Class 52 Rating, Deduct</i>	-509.16	
<i>For Class 54 Rating, Add</i>	711.33	
<i>For Class 55 Rating, Add</i>	1,066.24	
<i>For Class 56 Rating, Add</i>	1,416.53	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,286.83	939.26
<i>For Class 52 Rating, Deduct</i>	-535.01	
<i>For Class 54 Rating, Add</i>	746.64	
<i>For Class 55 Rating, Add</i>	1,118.76	
<i>For Class 56 Rating, Add</i>	1,486.03	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,526.50	942.32
<i>For Class 52 Rating, Deduct</i>	-560.86	
<i>For Class 54 Rating, Add</i>	781.94	
<i>For Class 55 Rating, Add</i>	1,171.28	
<i>For Class 56 Rating, Add</i>	1,555.53	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,766.18	945.41
<i>For Class 52 Rating, Deduct</i>	-586.71	
<i>For Class 54 Rating, Add</i>	817.25	
<i>For Class 55 Rating, Add</i>	1,223.80	
<i>For Class 56 Rating, Add</i>	1,625.02	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,005.85	948.49
<i>For Class 52 Rating, Deduct</i>	-612.56	
<i>For Class 54 Rating, Add</i>	852.56	
<i>For Class 55 Rating, Add</i>	1,276.32	
<i>For Class 56 Rating, Add</i>	1,694.51	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA		24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,245.52	951.56
			<i>For Class 52 Rating, Deduct</i>	-638.41	
			<i>For Class 54 Rating, Add</i>	887.86	
			<i>For Class 55 Rating, Add</i>	1,328.84	
			<i>For Class 56 Rating, Add</i>	1,764.01	
40 05 19 00-1404	EA		24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,485.20	954.65
			<i>For Class 52 Rating, Deduct</i>	-664.26	
			<i>For Class 54 Rating, Add</i>	923.17	
			<i>For Class 55 Rating, Add</i>	1,381.36	
			<i>For Class 56 Rating, Add</i>	1,833.51	
40 05 19 00-1405	EA		24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,724.88	957.72
			<i>For Class 52 Rating, Deduct</i>	-690.11	
			<i>For Class 54 Rating, Add</i>	958.48	
			<i>For Class 55 Rating, Add</i>	1,433.88	
			<i>For Class 56 Rating, Add</i>	1,903.00	
40 05 19 00-1406	EA		24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,964.55	960.81
			<i>For Class 52 Rating, Deduct</i>	-715.97	
			<i>For Class 54 Rating, Add</i>	993.79	
			<i>For Class 55 Rating, Add</i>	1,486.40	
			<i>For Class 56 Rating, Add</i>	1,972.50	
40 05 19 00-1407	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,204.22	963.88
			<i>For Class 52 Rating, Deduct</i>	-741.82	
			<i>For Class 54 Rating, Add</i>	1,029.09	
			<i>For Class 55 Rating, Add</i>	1,538.92	
			<i>For Class 56 Rating, Add</i>	2,041.99	
40 05 19 00-1408	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,443.90	966.96
			<i>For Class 52 Rating, Deduct</i>	-767.67	
			<i>For Class 54 Rating, Add</i>	1,064.40	
			<i>For Class 55 Rating, Add</i>	1,591.43	
			<i>For Class 56 Rating, Add</i>	2,111.49	
40 05 19 00-1409	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,683.57	970.05
			<i>For Class 52 Rating, Deduct</i>	-793.52	
			<i>For Class 54 Rating, Add</i>	1,099.71	
			<i>For Class 55 Rating, Add</i>	1,643.95	
			<i>For Class 56 Rating, Add</i>	2,180.99	
40 05 19 00-1410	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,923.24	973.13
			<i>For Class 52 Rating, Deduct</i>	-819.37	
			<i>For Class 54 Rating, Add</i>	1,135.01	
			<i>For Class 55 Rating, Add</i>	1,696.47	
			<i>For Class 56 Rating, Add</i>	2,250.48	
40 05 19 00-1411	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,162.92	976.20
			<i>For Class 52 Rating, Deduct</i>	-845.22	
			<i>For Class 54 Rating, Add</i>	1,170.32	
			<i>For Class 55 Rating, Add</i>	1,748.99	
			<i>For Class 56 Rating, Add</i>	2,319.97	
40 05 19 00-1412	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,402.59	979.28
			<i>For Class 52 Rating, Deduct</i>	-871.07	
			<i>For Class 54 Rating, Add</i>	1,205.63	
			<i>For Class 55 Rating, Add</i>	1,801.51	
			<i>For Class 56 Rating, Add</i>	2,389.47	
40 05 19 00-1413	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,642.27	982.37
			<i>For Class 52 Rating, Deduct</i>	-896.92	
			<i>For Class 54 Rating, Add</i>	1,240.94	
			<i>For Class 55 Rating, Add</i>	1,854.03	
			<i>For Class 56 Rating, Add</i>	2,458.97	
40 05 19 00-1414	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,881.95	985.43
			<i>For Class 52 Rating, Deduct</i>	-922.77	
			<i>For Class 54 Rating, Add</i>	1,276.24	
			<i>For Class 55 Rating, Add</i>	1,906.55	
			<i>For Class 56 Rating, Add</i>	2,528.46	
40 05 19 00-1415	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,200.95	1,040.87
			<i>For Class 52 Rating, Deduct</i>	-948.62	
			<i>For Class 54 Rating, Add</i>	1,312.50	
			<i>For Class 55 Rating, Add</i>	1,960.97	
			<i>For Class 56 Rating, Add</i>	2,600.81	
40 05 19 00-1416	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,440.61	1,043.95
			<i>For Class 52 Rating, Deduct</i>	-974.48	
			<i>For Class 54 Rating, Add</i>	1,347.81	
			<i>For Class 55 Rating, Add</i>	2,013.49	
			<i>For Class 56 Rating, Add</i>	2,670.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,680.29	1,047.04
<i>For Class 52 Rating, Deduct</i>	-1,000.33	
<i>For Class 54 Rating, Add</i>	1,383.12	
<i>For Class 55 Rating, Add</i>	2,066.01	
<i>For Class 56 Rating, Add</i>	2,739.81	
40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,919.96	1,050.12
<i>For Class 52 Rating, Deduct</i>	-1,026.18	
<i>For Class 54 Rating, Add</i>	1,418.42	
<i>For Class 55 Rating, Add</i>	2,118.53	
<i>For Class 56 Rating, Add</i>	2,809.30	
40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,159.63	1,053.19
<i>For Class 52 Rating, Deduct</i>	-1,052.03	
<i>For Class 54 Rating, Add</i>	1,453.73	
<i>For Class 55 Rating, Add</i>	2,171.05	
<i>For Class 56 Rating, Add</i>	2,878.79	
40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,399.31	1,056.27
<i>For Class 52 Rating, Deduct</i>	-1,077.88	
<i>For Class 54 Rating, Add</i>	1,489.04	
<i>For Class 55 Rating, Add</i>	2,223.56	
<i>For Class 56 Rating, Add</i>	2,948.29	
40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,638.99	1,059.36
<i>For Class 52 Rating, Deduct</i>	-1,103.73	
<i>For Class 54 Rating, Add</i>	1,524.35	
<i>For Class 55 Rating, Add</i>	2,276.08	
<i>For Class 56 Rating, Add</i>	3,017.79	
40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,878.66	1,062.42
<i>For Class 52 Rating, Deduct</i>	-1,129.58	
<i>For Class 54 Rating, Add</i>	1,559.65	
<i>For Class 55 Rating, Add</i>	2,328.60	
<i>For Class 56 Rating, Add</i>	3,087.28	
40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,118.34	1,065.51
<i>For Class 52 Rating, Deduct</i>	-1,155.43	
<i>For Class 54 Rating, Add</i>	1,594.96	
<i>For Class 55 Rating, Add</i>	2,381.12	
<i>For Class 56 Rating, Add</i>	3,156.78	
40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,780.95	1,268.76
<i>For Class 52 Rating, Deduct</i>	-314.44	
<i>For Class 54 Rating, Add</i>	451.86	
<i>For Class 55 Rating, Add</i>	683.60	
<i>For Class 56 Rating, Add</i>	912.49	
40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,125.07	1,271.83
<i>For Class 52 Rating, Deduct</i>	-351.78	
<i>For Class 54 Rating, Add</i>	502.83	
<i>For Class 55 Rating, Add</i>	759.41	
<i>For Class 56 Rating, Add</i>	1,012.79	
40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,469.19	1,274.92
<i>For Class 52 Rating, Deduct</i>	-389.13	
<i>For Class 54 Rating, Add</i>	553.81	
<i>For Class 55 Rating, Add</i>	835.22	
<i>For Class 56 Rating, Add</i>	1,113.10	
40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,813.32	1,278.00
<i>For Class 52 Rating, Deduct</i>	-426.47	
<i>For Class 54 Rating, Add</i>	604.78	
<i>For Class 55 Rating, Add</i>	911.03	
<i>For Class 56 Rating, Add</i>	1,213.41	
40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,157.44	1,281.08
<i>For Class 52 Rating, Deduct</i>	-463.81	
<i>For Class 54 Rating, Add</i>	655.75	
<i>For Class 55 Rating, Add</i>	986.84	
<i>For Class 56 Rating, Add</i>	1,313.72	
40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,501.56	1,284.15
<i>For Class 52 Rating, Deduct</i>	-501.15	
<i>For Class 54 Rating, Add</i>	706.73	
<i>For Class 55 Rating, Add</i>	1,062.66	
<i>For Class 56 Rating, Add</i>	1,414.03	

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,845.69	1,287.23
			<i>For Class 52 Rating, Deduct</i>	-538.49	
			<i>For Class 54 Rating, Add</i>	757.70	
			<i>For Class 55 Rating, Add</i>	1,138.47	
			<i>For Class 56 Rating, Add</i>	1,514.34	
40 05 19 00-1432	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,189.80	1,290.32
			<i>For Class 52 Rating, Deduct</i>	-575.83	
			<i>For Class 54 Rating, Add</i>	808.68	
			<i>For Class 55 Rating, Add</i>	1,214.28	
			<i>For Class 56 Rating, Add</i>	1,614.64	
40 05 19 00-1433	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,533.92	1,293.38
			<i>For Class 52 Rating, Deduct</i>	-613.17	
			<i>For Class 54 Rating, Add</i>	859.65	
			<i>For Class 55 Rating, Add</i>	1,290.09	
			<i>For Class 56 Rating, Add</i>	1,714.95	
40 05 19 00-1434	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,878.05	1,296.47
			<i>For Class 52 Rating, Deduct</i>	-650.51	
			<i>For Class 54 Rating, Add</i>	910.63	
			<i>For Class 55 Rating, Add</i>	1,365.90	
			<i>For Class 56 Rating, Add</i>	1,815.26	
40 05 19 00-1435	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,222.18	1,299.56
			<i>For Class 52 Rating, Deduct</i>	-687.85	
			<i>For Class 54 Rating, Add</i>	961.60	
			<i>For Class 55 Rating, Add</i>	1,441.71	
			<i>For Class 56 Rating, Add</i>	1,915.57	
40 05 19 00-1436	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,566.29	1,302.64
			<i>For Class 52 Rating, Deduct</i>	-725.19	
			<i>For Class 54 Rating, Add</i>	1,012.58	
			<i>For Class 55 Rating, Add</i>	1,517.52	
			<i>For Class 56 Rating, Add</i>	2,015.87	
40 05 19 00-1437	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,910.42	1,305.71
			<i>For Class 52 Rating, Deduct</i>	-762.53	
			<i>For Class 54 Rating, Add</i>	1,063.55	
			<i>For Class 55 Rating, Add</i>	1,593.33	
			<i>For Class 56 Rating, Add</i>	2,116.18	
40 05 19 00-1438	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,254.55	1,308.79
			<i>For Class 52 Rating, Deduct</i>	-799.87	
			<i>For Class 54 Rating, Add</i>	1,114.53	
			<i>For Class 55 Rating, Add</i>	1,669.14	
			<i>For Class 56 Rating, Add</i>	2,216.49	
40 05 19 00-1439	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,598.66	1,311.88
			<i>For Class 52 Rating, Deduct</i>	-837.21	
			<i>For Class 54 Rating, Add</i>	1,165.50	
			<i>For Class 55 Rating, Add</i>	1,744.95	
			<i>For Class 56 Rating, Add</i>	2,316.80	
40 05 19 00-1440	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,942.79	1,314.94
			<i>For Class 52 Rating, Deduct</i>	-874.55	
			<i>For Class 54 Rating, Add</i>	1,216.47	
			<i>For Class 55 Rating, Add</i>	1,820.76	
			<i>For Class 56 Rating, Add</i>	2,417.10	
40 05 19 00-1441	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,286.92	1,318.03
			<i>For Class 52 Rating, Deduct</i>	-911.89	
			<i>For Class 54 Rating, Add</i>	1,267.45	
			<i>For Class 55 Rating, Add</i>	1,896.58	
			<i>For Class 56 Rating, Add</i>	2,517.41	
40 05 19 00-1442	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,631.04	1,321.12
			<i>For Class 52 Rating, Deduct</i>	-949.23	
			<i>For Class 54 Rating, Add</i>	1,318.42	
			<i>For Class 55 Rating, Add</i>	1,972.39	
			<i>For Class 56 Rating, Add</i>	2,617.72	
40 05 19 00-1443	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,975.16	1,324.19
			<i>For Class 52 Rating, Deduct</i>	-986.57	
			<i>For Class 54 Rating, Add</i>	1,369.40	
			<i>For Class 55 Rating, Add</i>	2,048.20	
			<i>For Class 56 Rating, Add</i>	2,718.03	
40 05 19 00-1444	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,319.29	1,327.27
			<i>For Class 52 Rating, Deduct</i>	-1,023.91	
			<i>For Class 54 Rating, Add</i>	1,420.37	
			<i>For Class 55 Rating, Add</i>	2,124.01	
			<i>For Class 56 Rating, Add</i>	2,818.34	



Process Interconnections 40 Common Work Results For Process Interconnections 40 05 Ductile Iron Process Pipe 40 05 19	40
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	11,663.40	1,330.35
<i>For Class 52 Rating, Deduct</i>	-1,061.25	
<i>For Class 54 Rating, Add</i>	1,471.35	
<i>For Class 55 Rating, Add</i>	2,199.82	
<i>For Class 56 Rating, Add</i>	2,918.64	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,007.52	1,333.43
<i>For Class 52 Rating, Deduct</i>	-1,098.59	
<i>For Class 54 Rating, Add</i>	1,522.32	
<i>For Class 55 Rating, Add</i>	2,275.63	
<i>For Class 56 Rating, Add</i>	3,018.95	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,351.65	1,336.50
<i>For Class 52 Rating, Deduct</i>	-1,135.93	
<i>For Class 54 Rating, Add</i>	1,573.30	
<i>For Class 55 Rating, Add</i>	2,351.44	
<i>For Class 56 Rating, Add</i>	3,119.26	
40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	12,695.77	1,339.59
<i>For Class 52 Rating, Deduct</i>	-1,173.27	
<i>For Class 54 Rating, Add</i>	1,624.27	
<i>For Class 55 Rating, Add</i>	2,427.25	
<i>For Class 56 Rating, Add</i>	3,219.57	
40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,039.89	1,342.66
<i>For Class 52 Rating, Deduct</i>	-1,210.61	
<i>For Class 54 Rating, Add</i>	1,675.24	
<i>For Class 55 Rating, Add</i>	2,503.06	
<i>For Class 56 Rating, Add</i>	3,319.87	
40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,384.02	1,345.75
<i>For Class 52 Rating, Deduct</i>	-1,247.95	
<i>For Class 54 Rating, Add</i>	1,726.22	
<i>For Class 55 Rating, Add</i>	2,578.87	
<i>For Class 56 Rating, Add</i>	3,420.18	
40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	13,728.14	1,348.82
<i>For Class 52 Rating, Deduct</i>	-1,265.29	
<i>For Class 54 Rating, Add</i>	1,777.19	
<i>For Class 55 Rating, Add</i>	2,654.68	
<i>For Class 56 Rating, Add</i>	3,520.49	
40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,072.27	1,351.90
<i>For Class 52 Rating, Deduct</i>	-1,322.63	
<i>For Class 54 Rating, Add</i>	1,828.17	
<i>For Class 55 Rating, Add</i>	2,730.50	
<i>For Class 56 Rating, Add</i>	3,620.80	
40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,416.39	1,354.99
<i>For Class 52 Rating, Deduct</i>	-1,359.97	
<i>For Class 54 Rating, Add</i>	1,879.14	
<i>For Class 55 Rating, Add</i>	2,806.31	
<i>For Class 56 Rating, Add</i>	3,721.11	
40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	14,760.51	1,358.07
<i>For Class 52 Rating, Deduct</i>	-1,397.31	
<i>For Class 54 Rating, Add</i>	1,930.12	
<i>For Class 55 Rating, Add</i>	2,882.12	
<i>For Class 56 Rating, Add</i>	3,821.41	
40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,104.64	1,361.14
<i>For Class 52 Rating, Deduct</i>	-1,434.65	
<i>For Class 54 Rating, Add</i>	1,981.09	
<i>For Class 55 Rating, Add</i>	2,957.93	
<i>For Class 56 Rating, Add</i>	3,921.72	
40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,448.76	1,364.22
<i>For Class 52 Rating, Deduct</i>	-1,471.99	
<i>For Class 54 Rating, Add</i>	2,032.07	
<i>For Class 55 Rating, Add</i>	3,033.74	
<i>For Class 56 Rating, Add</i>	4,022.03	
40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	15,792.88	1,367.31
<i>For Class 52 Rating, Deduct</i>	-1,509.33	
<i>For Class 54 Rating, Add</i>	2,083.04	
<i>For Class 55 Rating, Add</i>	3,109.55	
<i>For Class 56 Rating, Add</i>	4,122.34	
40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	16,137.01	1,370.37
<i>For Class 52 Rating, Deduct</i>	-1,546.67	
<i>For Class 54 Rating, Add</i>	2,134.02	
<i>For Class 55 Rating, Add</i>	3,185.36	
<i>For Class 56 Rating, Add</i>	4,222.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,481.12	1,373.46
			<i>For Class 52 Rating, Deduct</i>	-1,584.01	
			<i>For Class 54 Rating, Add</i>	2,184.99	
			<i>For Class 55 Rating, Add</i>	3,261.17	
			<i>For Class 56 Rating, Add</i>	4,322.95	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,825.24	1,376.55
			<i>For Class 52 Rating, Deduct</i>	-1,621.35	
			<i>For Class 54 Rating, Add</i>	2,235.96	
			<i>For Class 55 Rating, Add</i>	3,336.98	
			<i>For Class 56 Rating, Add</i>	4,423.26	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,169.37	1,379.62
			<i>For Class 52 Rating, Deduct</i>	-1,658.69	
			<i>For Class 54 Rating, Add</i>	2,286.94	
			<i>For Class 55 Rating, Add</i>	3,412.79	
			<i>For Class 56 Rating, Add</i>	4,523.57	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,513.50	1,382.70
			<i>For Class 52 Rating, Deduct</i>	-1,696.04	
			<i>For Class 54 Rating, Add</i>	2,337.92	
			<i>For Class 55 Rating, Add</i>	3,488.61	
			<i>For Class 56 Rating, Add</i>	4,623.88	
40 05 19 00-1463			36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,506.35	1,607.51
			<i>For Class 52 Rating, Deduct</i>	-447.78	
			<i>For Class 54 Rating, Add</i>	639.84	
			<i>For Class 55 Rating, Add</i>	966.23	
			<i>For Class 56 Rating, Add</i>	1,288.55	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,972.79	1,610.59
			<i>For Class 52 Rating, Deduct</i>	-498.58	
			<i>For Class 54 Rating, Add</i>	709.16	
			<i>For Class 55 Rating, Add</i>	1,069.32	
			<i>For Class 56 Rating, Add</i>	1,424.94	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,439.23	1,613.66
			<i>For Class 52 Rating, Deduct</i>	-549.37	
			<i>For Class 54 Rating, Add</i>	778.48	
			<i>For Class 55 Rating, Add</i>	1,172.40	
			<i>For Class 56 Rating, Add</i>	1,561.33	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,905.65	1,616.74
			<i>For Class 52 Rating, Deduct</i>	-600.17	
			<i>For Class 54 Rating, Add</i>	847.80	
			<i>For Class 55 Rating, Add</i>	1,275.49	
			<i>For Class 56 Rating, Add</i>	1,697.72	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,372.09	1,619.83
			<i>For Class 52 Rating, Deduct</i>	-650.96	
			<i>For Class 54 Rating, Add</i>	917.12	
			<i>For Class 55 Rating, Add</i>	1,378.58	
			<i>For Class 56 Rating, Add</i>	1,834.11	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,838.53	1,622.89
			<i>For Class 52 Rating, Deduct</i>	-701.75	
			<i>For Class 54 Rating, Add</i>	986.45	
			<i>For Class 55 Rating, Add</i>	1,481.66	
			<i>For Class 56 Rating, Add</i>	1,970.50	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,304.96	1,625.98
			<i>For Class 52 Rating, Deduct</i>	-752.55	
			<i>For Class 54 Rating, Add</i>	1,055.77	
			<i>For Class 55 Rating, Add</i>	1,584.75	
			<i>For Class 56 Rating, Add</i>	2,106.89	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,771.41	1,629.07
			<i>For Class 52 Rating, Deduct</i>	-803.35	
			<i>For Class 54 Rating, Add</i>	1,125.09	
			<i>For Class 55 Rating, Add</i>	1,687.84	
			<i>For Class 56 Rating, Add</i>	2,243.28	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,237.85	1,632.14
			<i>For Class 52 Rating, Deduct</i>	-854.14	
			<i>For Class 54 Rating, Add</i>	1,194.41	
			<i>For Class 55 Rating, Add</i>	1,790.93	
			<i>For Class 56 Rating, Add</i>	2,379.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,704.28	1,635.22
<i>For Class 52 Rating, Deduct</i>	-904.93	
<i>For Class 54 Rating, Add</i>	1,263.73	
<i>For Class 55 Rating, Add</i>	1,894.01	
<i>For Class 56 Rating, Add</i>	2,516.06	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,170.72	1,638.30
<i>For Class 52 Rating, Deduct</i>	-955.73	
<i>For Class 54 Rating, Add</i>	1,333.05	
<i>For Class 55 Rating, Add</i>	1,997.10	
<i>For Class 56 Rating, Add</i>	2,652.45	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,637.16	1,641.38
<i>For Class 52 Rating, Deduct</i>	-1,006.52	
<i>For Class 54 Rating, Add</i>	1,402.38	
<i>For Class 55 Rating, Add</i>	2,100.19	
<i>For Class 56 Rating, Add</i>	2,788.84	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,103.59	1,644.45
<i>For Class 52 Rating, Deduct</i>	-1,057.32	
<i>For Class 54 Rating, Add</i>	1,471.70	
<i>For Class 55 Rating, Add</i>	2,203.27	
<i>For Class 56 Rating, Add</i>	2,925.23	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,570.04	1,647.54
<i>For Class 52 Rating, Deduct</i>	-1,108.11	
<i>For Class 54 Rating, Add</i>	1,541.02	
<i>For Class 55 Rating, Add</i>	2,306.36	
<i>For Class 56 Rating, Add</i>	3,061.63	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,036.48	1,650.61
<i>For Class 52 Rating, Deduct</i>	-1,158.91	
<i>For Class 54 Rating, Add</i>	1,610.34	
<i>For Class 55 Rating, Add</i>	2,409.45	
<i>For Class 56 Rating, Add</i>	3,198.02	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,502.91	1,653.70
<i>For Class 52 Rating, Deduct</i>	-1,209.70	
<i>For Class 54 Rating, Add</i>	1,679.66	
<i>For Class 55 Rating, Add</i>	2,512.53	
<i>For Class 56 Rating, Add</i>	3,334.41	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,969.35	1,656.77
<i>For Class 52 Rating, Deduct</i>	-1,260.50	
<i>For Class 54 Rating, Add</i>	1,748.99	
<i>For Class 55 Rating, Add</i>	2,615.62	
<i>For Class 56 Rating, Add</i>	3,470.80	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,435.78	1,659.85
<i>For Class 52 Rating, Deduct</i>	-1,311.29	
<i>For Class 54 Rating, Add</i>	1,818.31	
<i>For Class 55 Rating, Add</i>	2,718.71	
<i>For Class 56 Rating, Add</i>	3,607.19	
40 05 19 00-1482 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,902.21	1,662.94
<i>For Class 52 Rating, Deduct</i>	-1,362.09	
<i>For Class 54 Rating, Add</i>	1,887.63	
<i>For Class 55 Rating, Add</i>	2,821.79	
<i>For Class 56 Rating, Add</i>	3,743.58	
40 05 19 00-1483 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,368.65	1,666.02
<i>For Class 52 Rating, Deduct</i>	-1,412.88	
<i>For Class 54 Rating, Add</i>	1,956.95	
<i>For Class 55 Rating, Add</i>	2,924.88	
<i>For Class 56 Rating, Add</i>	3,879.97	
40 05 19 00-1484 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,835.10	1,669.09
<i>For Class 52 Rating, Deduct</i>	-1,463.68	
<i>For Class 54 Rating, Add</i>	2,026.27	
<i>For Class 55 Rating, Add</i>	3,027.97	
<i>For Class 56 Rating, Add</i>	4,016.36	
40 05 19 00-1485 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,301.53	1,672.17
<i>For Class 52 Rating, Deduct</i>	-1,514.47	
<i>For Class 54 Rating, Add</i>	2,095.59	
<i>For Class 55 Rating, Add</i>	3,131.06	
<i>For Class 56 Rating, Add</i>	4,152.75	
40 05 19 00-1486 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,767.97	1,675.26
<i>For Class 52 Rating, Deduct</i>	-1,565.27	
<i>For Class 54 Rating, Add</i>	2,164.92	
<i>For Class 55 Rating, Add</i>	3,234.14	
<i>For Class 56 Rating, Add</i>	4,289.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,234.41	1,678.32
			<i>For Class 52 Rating, Deduct</i>	-1,616.06	
			<i>For Class 54 Rating, Add</i>	2,234.24	
			<i>For Class 55 Rating, Add</i>	3,337.23	
			<i>For Class 56 Rating, Add</i>	4,425.53	
40 05 19 00-1488	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,700.84	1,681.41
			<i>For Class 52 Rating, Deduct</i>	-1,666.86	
			<i>For Class 54 Rating, Add</i>	2,303.56	
			<i>For Class 55 Rating, Add</i>	3,440.32	
			<i>For Class 56 Rating, Add</i>	4,561.92	
40 05 19 00-1489	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,167.28	1,684.50
			<i>For Class 52 Rating, Deduct</i>	-1,717.65	
			<i>For Class 54 Rating, Add</i>	2,372.88	
			<i>For Class 55 Rating, Add</i>	3,543.40	
			<i>For Class 56 Rating, Add</i>	4,698.31	
40 05 19 00-1490	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,633.73	1,687.57
			<i>For Class 52 Rating, Deduct</i>	-1,768.45	
			<i>For Class 54 Rating, Add</i>	2,442.20	
			<i>For Class 55 Rating, Add</i>	3,646.49	
			<i>For Class 56 Rating, Add</i>	4,834.71	
40 05 19 00-1491	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,100.16	1,690.65
			<i>For Class 52 Rating, Deduct</i>	-1,819.24	
			<i>For Class 54 Rating, Add</i>	2,511.52	
			<i>For Class 55 Rating, Add</i>	3,749.58	
			<i>For Class 56 Rating, Add</i>	4,971.10	
40 05 19 00-1492	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,566.60	1,693.73
			<i>For Class 52 Rating, Deduct</i>	-1,870.04	
			<i>For Class 54 Rating, Add</i>	2,580.85	
			<i>For Class 55 Rating, Add</i>	3,852.67	
			<i>For Class 56 Rating, Add</i>	5,107.49	
40 05 19 00-1493	EA		36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,033.04	1,696.81
			<i>For Class 52 Rating, Deduct</i>	-1,920.83	
			<i>For Class 54 Rating, Add</i>	2,650.17	
			<i>For Class 55 Rating, Add</i>	3,955.75	
			<i>For Class 56 Rating, Add</i>	5,243.88	
40 05 19 00-1494	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,499.46	1,699.88
			<i>For Class 52 Rating, Deduct</i>	-1,971.63	
			<i>For Class 54 Rating, Add</i>	2,719.49	
			<i>For Class 55 Rating, Add</i>	4,058.84	
			<i>For Class 56 Rating, Add</i>	5,380.27	
40 05 19 00-1495	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,965.90	1,702.97
			<i>For Class 52 Rating, Deduct</i>	-2,022.42	
			<i>For Class 54 Rating, Add</i>	2,788.81	
			<i>For Class 55 Rating, Add</i>	4,161.93	
			<i>For Class 56 Rating, Add</i>	5,516.66	
40 05 19 00-1496	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,432.34	1,706.05
			<i>For Class 52 Rating, Deduct</i>	-2,073.22	
			<i>For Class 54 Rating, Add</i>	2,858.13	
			<i>For Class 55 Rating, Add</i>	4,265.01	
			<i>For Class 56 Rating, Add</i>	5,653.05	
40 05 19 00-1497	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,898.78	1,709.13
			<i>For Class 52 Rating, Deduct</i>	-2,124.01	
			<i>For Class 54 Rating, Add</i>	2,927.45	
			<i>For Class 55 Rating, Add</i>	4,368.10	
			<i>For Class 56 Rating, Add</i>	5,789.44	
40 05 19 00-1498	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,365.22	1,712.21
			<i>For Class 52 Rating, Deduct</i>	-2,174.81	
			<i>For Class 54 Rating, Add</i>	2,996.78	
			<i>For Class 55 Rating, Add</i>	4,471.19	
			<i>For Class 56 Rating, Add</i>	5,925.83	
40 05 19 00-1499	EA		36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,831.66	1,715.28
			<i>For Class 52 Rating, Deduct</i>	-2,225.60	
			<i>For Class 54 Rating, Add</i>	3,066.10	
			<i>For Class 55 Rating, Add</i>	4,574.28	
			<i>For Class 56 Rating, Add</i>	6,062.22	
40 05 19 00-1500	EA		36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,298.09	1,718.37
			<i>For Class 52 Rating, Deduct</i>	-2,276.40	
			<i>For Class 54 Rating, Add</i>	3,135.42	
			<i>For Class 55 Rating, Add</i>	4,677.36	
			<i>For Class 56 Rating, Add</i>	6,198.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,764.53	1,721.44
<i>For Class 52 Rating, Deduct</i>	-2,327.19	
<i>For Class 54 Rating, Add</i>	3,204.74	
<i>For Class 55 Rating, Add</i>	4,780.45	
<i>For Class 56 Rating, Add</i>	6,335.00	
40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,527.59	2,026.32
<i>For Class 52 Rating, Deduct</i>	-600.32	
<i>For Class 54 Rating, Add</i>	855.46	
<i>For Class 55 Rating, Add</i>	1,290.69	
<i>For Class 56 Rating, Add</i>	1,720.47	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,222.17	2,029.39
<i>For Class 52 Rating, Deduct</i>	-676.21	
<i>For Class 54 Rating, Add</i>	959.00	
<i>For Class 55 Rating, Add</i>	1,444.65	
<i>For Class 56 Rating, Add</i>	1,924.16	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,908.51	2,032.47
<i>For Class 52 Rating, Deduct</i>	-751.19	
<i>For Class 54 Rating, Add</i>	1,061.30	
<i>For Class 55 Rating, Add</i>	1,596.78	
<i>For Class 56 Rating, Add</i>	2,125.42	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,601.70	2,035.56
<i>For Class 52 Rating, Deduct</i>	-826.93	
<i>For Class 54 Rating, Add</i>	1,164.64	
<i>For Class 55 Rating, Add</i>	1,750.43	
<i>For Class 56 Rating, Add</i>	2,328.70	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,288.03	2,038.64
<i>For Class 52 Rating, Deduct</i>	-901.91	
<i>For Class 54 Rating, Add</i>	1,266.94	
<i>For Class 55 Rating, Add</i>	1,902.55	
<i>For Class 56 Rating, Add</i>	2,529.96	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,982.61	2,041.71
<i>For Class 52 Rating, Deduct</i>	-977.80	
<i>For Class 54 Rating, Add</i>	1,370.49	
<i>For Class 55 Rating, Add</i>	2,056.51	
<i>For Class 56 Rating, Add</i>	2,733.65	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,667.56	2,044.79
<i>For Class 52 Rating, Deduct</i>	-1,052.63	
<i>For Class 54 Rating, Add</i>	1,472.59	
<i>For Class 55 Rating, Add</i>	2,208.33	
<i>For Class 56 Rating, Add</i>	2,934.50	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,362.14	2,047.88
<i>For Class 52 Rating, Deduct</i>	-1,128.52	
<i>For Class 54 Rating, Add</i>	1,576.13	
<i>For Class 55 Rating, Add</i>	2,362.29	
<i>For Class 56 Rating, Add</i>	3,138.20	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,048.47	2,050.95
<i>For Class 52 Rating, Deduct</i>	-1,203.51	
<i>For Class 54 Rating, Add</i>	1,678.43	
<i>For Class 55 Rating, Add</i>	2,514.41	
<i>For Class 56 Rating, Add</i>	3,339.45	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,741.67	2,054.03
<i>For Class 52 Rating, Deduct</i>	-1,279.25	
<i>For Class 54 Rating, Add</i>	1,781.77	
<i>For Class 55 Rating, Add</i>	2,668.07	
<i>For Class 56 Rating, Add</i>	3,542.74	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,428.00	2,057.11
<i>For Class 52 Rating, Deduct</i>	-1,354.23	
<i>For Class 54 Rating, Add</i>	1,884.08	
<i>For Class 55 Rating, Add</i>	2,820.19	
<i>For Class 56 Rating, Add</i>	3,744.00	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,121.20	2,060.19
<i>For Class 52 Rating, Deduct</i>	-1,429.97	
<i>For Class 54 Rating, Add</i>	1,987.41	
<i>For Class 55 Rating, Add</i>	2,973.85	
<i>For Class 56 Rating, Add</i>	3,947.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA	42"	Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,807.53	2,063.26
			<i>For Class 52 Rating, Deduct</i>	-1,504.95	
			<i>For Class 54 Rating, Add</i>	2,089.72	
			<i>For Class 55 Rating, Add</i>	3,125.97	
			<i>For Class 56 Rating, Add</i>	4,148.54	
40 05 19 00-1516	EA	42"	Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,495.23	2,066.35
			<i>For Class 52 Rating, Deduct</i>	-1,580.08	
			<i>For Class 54 Rating, Add</i>	2,192.23	
			<i>For Class 55 Rating, Add</i>	3,278.40	
			<i>For Class 56 Rating, Add</i>	4,350.21	
40 05 19 00-1517	EA	42"	Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,187.05	2,069.43
			<i>For Class 52 Rating, Deduct</i>	-1,655.67	
			<i>For Class 54 Rating, Add</i>	2,295.36	
			<i>For Class 55 Rating, Add</i>	3,431.75	
			<i>For Class 56 Rating, Add</i>	4,553.09	
40 05 19 00-1518	EA	42"	Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,873.38	2,072.51
			<i>For Class 52 Rating, Deduct</i>	-1,730.65	
			<i>For Class 54 Rating, Add</i>	2,397.66	
			<i>For Class 55 Rating, Add</i>	3,583.87	
			<i>For Class 56 Rating, Add</i>	4,754.35	
40 05 19 00-1519	EA	42"	Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,567.95	2,075.59
			<i>For Class 52 Rating, Deduct</i>	-1,806.54	
			<i>For Class 54 Rating, Add</i>	2,501.21	
			<i>For Class 55 Rating, Add</i>	3,737.83	
			<i>For Class 56 Rating, Add</i>	4,958.03	
40 05 19 00-1520	EA	42"	Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,254.29	2,078.66
			<i>For Class 52 Rating, Deduct</i>	-1,881.53	
			<i>For Class 54 Rating, Add</i>	2,603.51	
			<i>For Class 55 Rating, Add</i>	3,889.96	
			<i>For Class 56 Rating, Add</i>	5,159.30	
40 05 19 00-1521	EA	42"	Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,947.48	2,081.75
			<i>For Class 52 Rating, Deduct</i>	-1,957.27	
			<i>For Class 54 Rating, Add</i>	2,706.85	
			<i>For Class 55 Rating, Add</i>	4,043.61	
			<i>For Class 56 Rating, Add</i>	5,362.58	
40 05 19 00-1522	EA	42"	Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,633.81	2,084.82
			<i>For Class 52 Rating, Deduct</i>	-2,032.25	
			<i>For Class 54 Rating, Add</i>	2,809.15	
			<i>For Class 55 Rating, Add</i>	4,195.73	
			<i>For Class 56 Rating, Add</i>	5,563.84	
40 05 19 00-1523	EA	42"	Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,328.39	2,087.90
			<i>For Class 52 Rating, Deduct</i>	-2,108.14	
			<i>For Class 54 Rating, Add</i>	2,912.70	
			<i>For Class 55 Rating, Add</i>	4,349.69	
			<i>For Class 56 Rating, Add</i>	5,767.53	
40 05 19 00-1524	EA	42"	Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,014.72	2,090.99
			<i>For Class 52 Rating, Deduct</i>	-2,183.12	
			<i>For Class 54 Rating, Add</i>	3,015.00	
			<i>For Class 55 Rating, Add</i>	4,501.82	
			<i>For Class 56 Rating, Add</i>	5,968.79	
40 05 19 00-1525	EA	42"	Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,707.92	2,094.07
			<i>For Class 52 Rating, Deduct</i>	-2,258.86	
			<i>For Class 54 Rating, Add</i>	3,118.34	
			<i>For Class 55 Rating, Add</i>	4,655.47	
			<i>For Class 56 Rating, Add</i>	6,172.07	
40 05 19 00-1526	EA	42"	Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,394.25	2,097.14
			<i>For Class 52 Rating, Deduct</i>	-2,333.84	
			<i>For Class 54 Rating, Add</i>	3,220.64	
			<i>For Class 55 Rating, Add</i>	4,807.60	
			<i>For Class 56 Rating, Add</i>	6,373.33	
40 05 19 00-1527	EA	42"	Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,088.82	2,100.22
			<i>For Class 52 Rating, Deduct</i>	-2,409.73	
			<i>For Class 54 Rating, Add</i>	3,324.18	
			<i>For Class 55 Rating, Add</i>	4,961.56	
			<i>For Class 56 Rating, Add</i>	6,577.02	
40 05 19 00-1528	EA	42"	Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,775.15	2,103.31
			<i>For Class 52 Rating, Deduct</i>	-2,484.72	
			<i>For Class 54 Rating, Add</i>	3,426.49	
			<i>For Class 55 Rating, Add</i>	5,113.68	
			<i>For Class 56 Rating, Add</i>	6,778.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,466.98	2,106.37
<i>For Class 52 Rating, Deduct</i>	-2,560.30	
<i>For Class 54 Rating, Add</i>	3,529.62	
<i>For Class 55 Rating, Add</i>	5,267.03	
<i>For Class 56 Rating, Add</i>	6,981.16	
40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,154.67	2,109.46
<i>For Class 52 Rating, Deduct</i>	-2,635.44	
<i>For Class 54 Rating, Add</i>	3,632.13	
<i>For Class 55 Rating, Add</i>	5,419.46	
<i>For Class 56 Rating, Add</i>	7,182.82	
40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,703.57	2,112.55
<i>For Class 52 Rating, Deduct</i>	-2,695.30	
<i>For Class 54 Rating, Add</i>	3,713.82	
<i>For Class 55 Rating, Add</i>	5,540.93	
<i>For Class 56 Rating, Add</i>	7,343.54	
40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,534.21	2,115.63
<i>For Class 52 Rating, Deduct</i>	-2,786.16	
<i>For Class 54 Rating, Add</i>	3,837.77	
<i>For Class 55 Rating, Add</i>	5,725.24	
<i>For Class 56 Rating, Add</i>	7,587.37	
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,220.53	2,118.70
<i>For Class 52 Rating, Deduct</i>	-2,861.14	
<i>For Class 54 Rating, Add</i>	3,940.08	
<i>For Class 55 Rating, Add</i>	5,877.36	
<i>For Class 56 Rating, Add</i>	7,788.63	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,913.73	2,121.78
<i>For Class 52 Rating, Deduct</i>	-2,936.88	
<i>For Class 54 Rating, Add</i>	4,043.41	
<i>For Class 55 Rating, Add</i>	6,031.01	
<i>For Class 56 Rating, Add</i>	7,991.91	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,600.07	2,124.87
<i>For Class 52 Rating, Deduct</i>	-3,011.86	
<i>For Class 54 Rating, Add</i>	4,145.72	
<i>For Class 55 Rating, Add</i>	6,183.14	
<i>For Class 56 Rating, Add</i>	8,193.17	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,294.64	2,127.94
<i>For Class 52 Rating, Deduct</i>	-3,087.75	
<i>For Class 54 Rating, Add</i>	4,249.26	
<i>For Class 55 Rating, Add</i>	6,337.10	
<i>For Class 56 Rating, Add</i>	8,396.86	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,979.59	2,131.02
<i>For Class 52 Rating, Deduct</i>	-3,162.58	
<i>For Class 54 Rating, Add</i>	4,351.36	
<i>For Class 55 Rating, Add</i>	6,488.91	
<i>For Class 56 Rating, Add</i>	8,597.71	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,674.17	2,134.10
<i>For Class 52 Rating, Deduct</i>	-3,238.47	
<i>For Class 54 Rating, Add</i>	4,454.90	
<i>For Class 55 Rating, Add</i>	6,642.88	
<i>For Class 56 Rating, Add</i>	8,801.41	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,360.50	2,137.18
<i>For Class 52 Rating, Deduct</i>	-3,313.46	
<i>For Class 54 Rating, Add</i>	4,557.21	
<i>For Class 55 Rating, Add</i>	6,795.00	
<i>For Class 56 Rating, Add</i>	9,002.67	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,053.70	2,140.25
<i>For Class 52 Rating, Deduct</i>	-3,389.20	
<i>For Class 54 Rating, Add</i>	4,660.55	
<i>For Class 55 Rating, Add</i>	6,948.65	
<i>For Class 56 Rating, Add</i>	9,205.95	
40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
<small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,955.71	2,546.74
<i>For Class 52 Rating, Deduct</i>	-780.67	
<i>For Class 54 Rating, Add</i>	1,110.85	
<i>For Class 55 Rating, Add</i>	1,675.24	
<i>For Class 56 Rating, Add</i>	2,232.53	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,965.01	2,549.83
			<i>For Class 52 Rating, Deduct</i>	-891.18	
			<i>For Class 54 Rating, Add</i>	1,261.60	
			<i>For Class 55 Rating, Add</i>	1,899.38	
			<i>For Class 56 Rating, Add</i>	2,529.06	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,972.92	2,552.92
			<i>For Class 52 Rating, Deduct</i>	-1,001.54	
			<i>For Class 54 Rating, Add</i>	1,412.15	
			<i>For Class 55 Rating, Add</i>	2,123.22	
			<i>For Class 56 Rating, Add</i>	2,825.19	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,989.09	2,555.99
			<i>For Class 52 Rating, Deduct</i>	-1,112.80	
			<i>For Class 54 Rating, Add</i>	1,563.93	
			<i>For Class 55 Rating, Add</i>	2,348.90	
			<i>For Class 56 Rating, Add</i>	3,123.75	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,998.38	2,559.07
			<i>For Class 52 Rating, Deduct</i>	-1,223.31	
			<i>For Class 54 Rating, Add</i>	1,714.68	
			<i>For Class 55 Rating, Add</i>	2,573.04	
			<i>For Class 56 Rating, Add</i>	3,420.28	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,007.67	2,562.15
			<i>For Class 52 Rating, Deduct</i>	-1,333.82	
			<i>For Class 54 Rating, Add</i>	1,865.43	
			<i>For Class 55 Rating, Add</i>	2,797.18	
			<i>For Class 56 Rating, Add</i>	3,716.81	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,022.46	2,565.23
			<i>For Class 52 Rating, Deduct</i>	-1,444.93	
			<i>For Class 54 Rating, Add</i>	2,017.00	
			<i>For Class 55 Rating, Add</i>	3,022.55	
			<i>For Class 56 Rating, Add</i>	4,014.97	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,033.13	2,568.30
			<i>For Class 52 Rating, Deduct</i>	-1,555.59	
			<i>For Class 54 Rating, Add</i>	2,167.96	
			<i>For Class 55 Rating, Add</i>	3,247.00	
			<i>For Class 56 Rating, Add</i>	4,311.91	
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,041.05	2,571.39
			<i>For Class 52 Rating, Deduct</i>	-1,665.95	
			<i>For Class 54 Rating, Add</i>	2,318.50	
			<i>For Class 55 Rating, Add</i>	3,470.84	
			<i>For Class 56 Rating, Add</i>	4,608.04	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,057.22	2,574.47
			<i>For Class 52 Rating, Deduct</i>	-1,777.22	
			<i>For Class 54 Rating, Add</i>	2,470.29	
			<i>For Class 55 Rating, Add</i>	3,696.52	
			<i>For Class 56 Rating, Add</i>	4,906.60	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,066.51	2,577.55
			<i>For Class 52 Rating, Deduct</i>	-1,887.72	
			<i>For Class 54 Rating, Add</i>	2,621.03	
			<i>For Class 55 Rating, Add</i>	3,920.66	
			<i>For Class 56 Rating, Add</i>	5,203.13	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,082.67	2,580.63
			<i>For Class 52 Rating, Deduct</i>	-1,998.99	
			<i>For Class 54 Rating, Add</i>	2,772.81	
			<i>For Class 55 Rating, Add</i>	4,146.34	
			<i>For Class 56 Rating, Add</i>	5,501.69	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,090.60	2,583.70
			<i>For Class 52 Rating, Deduct</i>	-2,109.35	
			<i>For Class 54 Rating, Add</i>	2,923.36	
			<i>For Class 55 Rating, Add</i>	4,370.18	
			<i>For Class 56 Rating, Add</i>	5,797.82	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,099.89	2,586.79
			<i>For Class 52 Rating, Deduct</i>	-2,219.86	
			<i>For Class 54 Rating, Add</i>	3,074.11	
			<i>For Class 55 Rating, Add</i>	4,594.32	
			<i>For Class 56 Rating, Add</i>	6,094.35	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,116.05	2,589.88
			<i>For Class 52 Rating, Deduct</i>	-2,331.12	
			<i>For Class 54 Rating, Add</i>	3,225.89	
			<i>For Class 55 Rating, Add</i>	4,820.00	
			<i>For Class 56 Rating, Add</i>	6,392.91	



Process Interconnections	40
Common Work Results For Process Interconnections	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,125.35	2,592.94
<i>For Class 52 Rating, Deduct</i>	-2,441.63	
<i>For Class 54 Rating, Add</i>	3,376.64	
<i>For Class 55 Rating, Add</i>	5,044.14	
<i>For Class 56 Rating, Add</i>	6,689.44	
40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,133.28	2,596.03
<i>For Class 52 Rating, Deduct</i>	-2,551.99	
<i>For Class 54 Rating, Add</i>	3,527.19	
<i>For Class 55 Rating, Add</i>	5,267.98	
<i>For Class 56 Rating, Add</i>	6,985.57	
40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,149.43	2,599.11
<i>For Class 52 Rating, Deduct</i>	-2,663.25	
<i>For Class 54 Rating, Add</i>	3,678.97	
<i>For Class 55 Rating, Add</i>	5,493.65	
<i>For Class 56 Rating, Add</i>	7,284.13	
40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,158.72	2,602.18
<i>For Class 52 Rating, Deduct</i>	-2,773.76	
<i>For Class 54 Rating, Add</i>	3,829.72	
<i>For Class 55 Rating, Add</i>	5,717.80	
<i>For Class 56 Rating, Add</i>	7,580.66	
40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,166.65	2,605.26
<i>For Class 52 Rating, Deduct</i>	-2,884.12	
<i>For Class 54 Rating, Add</i>	3,980.26	
<i>For Class 55 Rating, Add</i>	5,941.64	
<i>For Class 56 Rating, Add</i>	7,876.79	
40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,182.81	2,608.35
<i>For Class 52 Rating, Deduct</i>	-2,995.39	
<i>For Class 54 Rating, Add</i>	4,132.04	
<i>For Class 55 Rating, Add</i>	6,167.31	
<i>For Class 56 Rating, Add</i>	8,175.35	
40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,193.48	2,611.42
<i>For Class 52 Rating, Deduct</i>	-3,106.05	
<i>For Class 54 Rating, Add</i>	4,283.00	
<i>For Class 55 Rating, Add</i>	6,391.76	
<i>For Class 56 Rating, Add</i>	8,472.29	
40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,201.40	2,614.50
<i>For Class 52 Rating, Deduct</i>	-3,216.40	
<i>For Class 54 Rating, Add</i>	4,433.54	
<i>For Class 55 Rating, Add</i>	6,615.60	
<i>For Class 56 Rating, Add</i>	8,768.42	
40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,217.56	2,617.58
<i>For Class 52 Rating, Deduct</i>	-3,327.67	
<i>For Class 54 Rating, Add</i>	4,585.32	
<i>For Class 55 Rating, Add</i>	6,841.28	
<i>For Class 56 Rating, Add</i>	9,066.98	
40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,226.86	2,620.66
<i>For Class 52 Rating, Deduct</i>	-3,438.18	
<i>For Class 54 Rating, Add</i>	4,736.07	
<i>For Class 55 Rating, Add</i>	7,065.42	
<i>For Class 56 Rating, Add</i>	9,363.51	
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,234.78	2,623.74
<i>For Class 52 Rating, Deduct</i>	-3,548.54	
<i>For Class 54 Rating, Add</i>	4,886.62	
<i>For Class 55 Rating, Add</i>	7,289.26	
<i>For Class 56 Rating, Add</i>	9,659.64	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,250.94	2,626.82
<i>For Class 52 Rating, Deduct</i>	-3,659.80	
<i>For Class 54 Rating, Add</i>	5,038.40	
<i>For Class 55 Rating, Add</i>	7,514.93	
<i>For Class 56 Rating, Add</i>	9,958.20	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,260.24	2,629.90
<i>For Class 52 Rating, Deduct</i>	-3,770.31	
<i>For Class 54 Rating, Add</i>	5,189.15	
<i>For Class 55 Rating, Add</i>	7,739.08	
<i>For Class 56 Rating, Add</i>	10,254.73	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,145.85	2,632.98
<i>For Class 52 Rating, Deduct</i>	-3,867.21	
<i>For Class 54 Rating, Add</i>	5,321.34	
<i>For Class 55 Rating, Add</i>	7,935.64	
<i>For Class 56 Rating, Add</i>	10,514.78	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,285.70	2,636.06
			<i>For Class 52 Rating, Deduct</i>	-3,992.08	
			<i>For Class 54 Rating, Add</i>	5,491.68	
			<i>For Class 55 Rating, Add</i>	8,188.90	
			<i>For Class 56 Rating, Add</i>	10,849.83	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,293.62	2,639.13
			<i>For Class 52 Rating, Deduct</i>	-4,102.44	
			<i>For Class 54 Rating, Add</i>	5,642.22	
			<i>For Class 55 Rating, Add</i>	8,412.74	
			<i>For Class 56 Rating, Add</i>	11,145.95	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,311.16	2,642.22
			<i>For Class 52 Rating, Deduct</i>	-4,213.86	
			<i>For Class 54 Rating, Add</i>	5,794.21	
			<i>For Class 55 Rating, Add</i>	8,638.72	
			<i>For Class 56 Rating, Add</i>	11,444.92	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,319.07	2,645.29
			<i>For Class 52 Rating, Deduct</i>	-4,324.22	
			<i>For Class 54 Rating, Add</i>	5,944.75	
			<i>For Class 55 Rating, Add</i>	8,862.56	
			<i>For Class 56 Rating, Add</i>	11,741.05	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,326.99	2,648.37
			<i>For Class 52 Rating, Deduct</i>	-4,434.57	
			<i>For Class 54 Rating, Add</i>	6,095.30	
			<i>For Class 55 Rating, Add</i>	9,086.39	
			<i>For Class 56 Rating, Add</i>	12,037.18	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,344.54	2,651.46
			<i>For Class 52 Rating, Deduct</i>	-4,545.99	
			<i>For Class 54 Rating, Add</i>	6,247.29	
			<i>For Class 55 Rating, Add</i>	9,312.38	
			<i>For Class 56 Rating, Add</i>	12,336.14	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,352.45	2,654.54
			<i>For Class 52 Rating, Deduct</i>	-4,656.35	
			<i>For Class 54 Rating, Add</i>	6,397.83	
			<i>For Class 55 Rating, Add</i>	9,536.21	
			<i>For Class 56 Rating, Add</i>	12,632.27	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,361.75	2,657.61
			<i>For Class 52 Rating, Deduct</i>	-4,766.86	
			<i>For Class 54 Rating, Add</i>	6,548.58	
			<i>For Class 55 Rating, Add</i>	9,760.36	
			<i>For Class 56 Rating, Add</i>	12,928.80	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,377.92	2,660.69
			<i>For Class 52 Rating, Deduct</i>	-4,878.12	
			<i>For Class 54 Rating, Add</i>	6,700.36	
			<i>For Class 55 Rating, Add</i>	9,986.04	
			<i>For Class 56 Rating, Add</i>	13,227.36	
40 05 19 00-1580			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	406.17	148.57
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	568.05	189.99
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	787.31	215.21
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,145.55	272.83
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,412.61	302.54
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,753.49	328.66
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,160.20	405.20
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,827.50	486.24
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,485.03	612.30
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,266.41	693.34
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	8,820.30	918.45
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	12,464.43	1,040.01
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	20,793.59	1,188.58
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	27,668.15	1,458.71
40 05 19 00-1595			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	386.35	148.57
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	536.33	189.99
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	706.69	215.21
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,029.25	272.83
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,264.59	302.54
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,452.17	328.66
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,827.16	405.20
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,379.48	486.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,076.65	612.30
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,034.68	693.34
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	7,918.97	918.45
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	11,806.28	1,040.01
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	17,964.05	1,188.58
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	24,467.24	1,458.71
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows <i>(40 05 19 00-0001)</i>		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	385.02	148.57
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	525.76	189.99
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	697.44	215.21
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,002.81	272.83
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,322.74	302.54
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,635.87	328.66
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,868.13	405.20
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,429.70	486.24
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,294.72	612.30
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,531.60	693.34
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	8,007.52	918.45
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	12,009.80	1,040.01
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	18,369.78	1,188.58
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	24,995.88	1,458.71
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows <i>(40 05 19 00-0001)</i>		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	418.06	148.57
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	587.87	189.99
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	723.87	215.21
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,096.65	272.83
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,495.87	302.54
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,680.80	328.66
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,055.80	405.20
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,429.70	486.24
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,294.72	612.30
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,710.02	693.34
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	8,096.07	918.45
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	12,097.03	1,040.01
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	18,462.29	1,188.58
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	25,182.22	1,458.71
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows <i>(40 05 19 00-0001)</i>		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	535.35	169.28
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	656.21	181.89
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	739.13	202.60
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	977.41	210.70
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,033.89	231.41
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,128.33	244.02
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,050.82	226.01
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,182.64	246.72
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,355.03	259.33
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,446.28	288.14
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,355.03	259.33
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,498.38	271.93
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,668.90	300.74
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,844.08	316.06
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,562.38	297.60
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,683.23	310.20
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,929.09	339.01
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,102.28	353.88
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,248.92	366.93
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,825.97	338.12
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,174.15	350.72
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,242.91	379.53
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,367.18	394.40
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,564.07	407.45
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,796.50	445.72
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,349.67	401.14
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,504.89	413.76
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,091.72	442.57
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,208.06	457.42
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,531.82	470.48
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,464.25	508.75
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,689.53	549.27
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,280.67	441.67
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,437.23	454.27

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,697.62	483.09
40 05 19 00-1676 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	3,884.01	497.94
40 05 19 00-1677 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,230.22	511.00
40 05 19 00-1678 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,559.14	549.27
40 05 19 00-1679 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,674.72	589.78
40 05 19 00-1680 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	4,909.32	583.27
40 05 19 00-1681 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	5,820.20	610.50
40 05 19 00-1682 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,190.21	623.56
40 05 19 00-1683 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	6,969.78	661.83
40 05 19 00-1684 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,088.46	702.35
40 05 19 00-1685 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,343.01	765.37
40 05 19 00-1686 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	9,866.97	805.89
40 05 19 00-1687 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	7,983.24	671.28
40 05 19 00-1688 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,302.62	684.34
40 05 19 00-1689 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	8,411.24	722.61
40 05 19 00-1690 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,946.66	763.12
40 05 19 00-1691 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	10,491.06	826.15
40 05 19 00-1692 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,431.31	866.67
40 05 19 00-1693 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	12,207.14	979.23
40 05 19 00-1694 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	14,036.35	758.62
40 05 19 00-1695 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	11,870.08	796.89
40 05 19 00-1696 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	15,939.89	837.41
40 05 19 00-1697 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	15,701.03	900.44
40 05 19 00-1698 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	13,736.40	940.96
40 05 19 00-1699 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	16,174.81	1,053.51
40 05 19 00-1700 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	22,763.89	1,114.29
40 05 19 00-1701 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	21,791.22	1,087.29
40 05 19 00-1702 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	23,702.31	1,199.84
40 05 19 00-1703 EA 48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	24,402.34	1,260.62
40 05 19 00-1704 EA 48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow.....	31,148.01	1,334.91
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows <small>(40 05 19 00-0001)</small>		
40 05 19 00-1706 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	478.86	148.57
40 05 19 00-1707 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	730.61	189.99
40 05 19 00-1708 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,059.56	215.21
40 05 19 00-1709 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	1,499.74	272.83
40 05 19 00-1710 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,101.16	302.54
40 05 19 00-1711 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	2,444.69	328.66
40 05 19 00-1712 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,167.26	405.20
40 05 19 00-1713 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	3,920.46	486.24
40 05 19 00-1714 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	5,335.27	612.30
40 05 19 00-1715 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	7,795.96	693.34
40 05 19 00-1716 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	13,661.32	918.45
40 05 19 00-1717 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	20,723.11	1,040.01
40 05 19 00-1718 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow.....	32,047.02	1,188.58
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base <small>(40 05 19 00-0001)</small>		
40 05 19 00-1720 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	503.97	148.57
40 05 19 00-1721 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	681.71	189.99
40 05 19 00-1722 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,093.92	215.21
40 05 19 00-1723 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,474.62	272.83
40 05 19 00-1724 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,967.68	302.54
40 05 19 00-1725 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,317.81	328.66
40 05 19 00-1726 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,863.29	405.20
40 05 19 00-1727 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,592.71	486.24
40 05 19 00-1728 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,735.26	612.30
40 05 19 00-1729 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	6,654.09	693.34
40 05 19 00-1730 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	10,863.50	918.45
40 05 19 00-1731 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	15,477.68	1,040.01
40 05 19 00-1732 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	28,595.00	1,188.58
40 05 19 00-1733 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	30,870.39	1,458.71
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees <small>(40 05 19 00-0001)</small>		
40 05 19 00-1735 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	691.95	238.62
40 05 19 00-1736 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	857.10	293.55
40 05 19 00-1737 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,185.16	327.76
40 05 19 00-1738 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,692.02	425.91
40 05 19 00-1739 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,226.46	464.63
40 05 19 00-1740 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,955.01	499.74
40 05 19 00-1741 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,361.64	630.31
40 05 19 00-1742 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,088.83	720.36
40 05 19 00-1743 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,157.73	909.45
40 05 19 00-1744 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	7,523.91	1,003.99
40 05 19 00-1745 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	12,735.95	1,386.68
40 05 19 00-1746 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	18,269.84	1,589.28

40 Process Interconnections

40 05 Common Work Results For Process Interconnections

40 05 19 Ductile Iron Process Pipe



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	28,764.89	1,217.85
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,078.80	1,343.90
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	29,378.73	1,397.94
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	30,224.14	1,668.07
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base <small>(40 05 19 00-0001)</small>		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	742.17	238.62
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,001.15	293.55
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	1,433.62	327.76
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,161.19	425.91
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,878.69	464.63
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,208.76	499.74
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,985.44	630.31
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,830.25	720.36
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	6,437.03	909.45
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	9,191.77	1,003.99
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	15,332.89	1,386.68
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	21,757.55	1,589.28
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-0001)</small>		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	615.30	238.62
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	850.49	293.55
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,204.99	327.76
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,582.32	425.91
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,219.86	464.63
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,854.57	499.74
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-0001)</small>		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	845.55	328.66
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,095.97	356.13
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,165.98	397.09
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,332.16	361.97
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,456.01	409.70
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,511.64	440.31
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,703.58	390.79
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,877.65	438.51
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,050.91	469.13
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,545.10	578.98
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,180.72	405.65
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,303.24	453.38
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,477.82	483.99
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,997.14	593.84
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,839.45	626.71
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,727.44	466.43
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,900.70	497.04
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,244.23	606.90
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,522.67	639.76
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,695.29	670.83
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,241.37	504.70
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,438.42	535.31
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,781.96	645.17
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,085.50	678.03
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,637.87	709.09
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,656.92	855.42
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,379.42	545.22
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,575.14	575.83
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,868.47	685.69
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,170.68	718.55
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,772.82	749.62
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,223.16	895.94
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,463.82	954.47
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,377.57	608.25
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,586.52	638.86
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,861.33	748.71
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,183.38	781.59
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,284.63	812.65
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,431.46	958.97
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,682.68	1,017.50
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,351.14	1,206.60
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,744.70	648.76
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,898.14	679.38
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,254.90	789.24
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,468.57	822.10
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,597.58	853.17
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,009.59	999.49
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,030.45	1,058.02

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer'.

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer'.

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange'.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,365.27	252.12
				40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,808.36	315.16
				40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,559.59	382.69
				40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,585.49	445.72
				40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	6,328.63	490.74
				40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	8,885.63	540.26
				40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	11,717.06	607.80
40 05 19 00-2059 Ductile Iron Bolt Packs <small>(40 05 19)</small>						
Note: Labor installation is included with pipe fittings or valves.						
				40 05 19 00-2060 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	38.62	
				Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	10.81	
				For Hot Dip Galvanized, Add	15.45	
				40 05 19 00-2061 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	59.59	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	16.69	
				For Hot Dip Galvanized, Add	23.84	
				40 05 19 00-2062 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	64.71	
				Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	18.12	
				For Hot Dip Galvanized, Add	25.88	
				40 05 19 00-2063 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	145.35	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	40.70	
				For Hot Dip Galvanized, Add	58.14	
				40 05 19 00-2064 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	146.63	
				Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	41.06	
				For Hot Dip Galvanized, Add	58.65	
				40 05 19 00-2065 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	164.28	
				Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	46.00	
				For Hot Dip Galvanized, Add	65.71	
				40 05 19 00-2066 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	276.17	
				Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	77.33	
				For Hot Dip Galvanized, Add	110.47	
				40 05 19 00-2067 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	401.20	
				Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	112.34	
				For Hot Dip Galvanized, Add	160.48	
				40 05 19 00-2068 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	506.57	
				Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	141.84	
				For Hot Dip Galvanized, Add	202.63	
				40 05 19 00-2069 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	724.81	
				Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	202.95	
				For Hot Dip Galvanized, Add	289.92	
				40 05 19 00-2070 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,145.31	
				Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	320.69	
				For Hot Dip Galvanized, Add	458.12	
				40 05 19 00-2071 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,633.81	
				Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	457.47	
				For Hot Dip Galvanized, Add	653.52	
				40 05 19 00-2072 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,101.85	
				Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	588.52	
				For Hot Dip Galvanized, Add	840.74	
				40 05 19 00-2073 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,568.93	
				Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
				For Zinc Plated, Add	719.30	
				For Hot Dip Galvanized, Add	1,027.57	
40 05 19 00-2074 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 <small>(40 05 19)</small>						
Note: Labor installation is included with pipe fittings or valves.						
40 05 19 00-2075 Full Face Flange Styrene Butadiene (SBR) Gaskets <small>(40 05 19 00-2074)</small>						
				40 05 19 00-2076 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	6.52	
				40 05 19 00-2077 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.30	
				40 05 19 00-2078 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	11.26	
				40 05 19 00-2079 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	13.04	
				40 05 19 00-2080 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.22	
				40 05 19 00-2081 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	23.70	
				40 05 19 00-2082 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.03	
				40 05 19 00-2083 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	30.81	
				40 05 19 00-2084 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	47.40	
				40 05 19 00-2085 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	50.96	
				40 05 19 00-2086 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	65.77	
				40 05 19 00-2087 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	75.25	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2088	EA	42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	80.58	
40 05 19 00-2089	EA	48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	88.28	
40 05 19 00-2090		Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-2074)		
Note: (Acrylonitrile Butadiene)				
40 05 19 00-2091	EA	4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	20.14	
40 05 19 00-2092	EA	6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	28.44	
40 05 19 00-2093	EA	8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	43.84	
40 05 19 00-2094	EA	10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	47.99	
40 05 19 00-2095	EA	12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	51.55	
40 05 19 00-2096	EA	14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	97.17	
40 05 19 00-2097	EA	16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	119.68	
40 05 19 00-2098	EA	18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	120.28	
40 05 19 00-2099	EA	20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	125.02	
40 05 19 00-2100	EA	24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	132.13	
40 05 19 00-2101	EA	30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	146.35	
40 05 19 00-2102	EA	36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	161.16	
40 05 19 00-2103	EA	42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	229.30	
40 05 19 00-2104	EA	48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	250.63	
40 05 19 00-2105		Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-2074)		
Note: (Polybutadiene)				
40 05 19 00-2106	EA	4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	17.78	
40 05 19 00-2107	EA	6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	23.11	
40 05 19 00-2108	EA	8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	31.40	
40 05 19 00-2109	EA	10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	36.74	
40 05 19 00-2110	EA	12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	40.88	
40 05 19 00-2111	EA	14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	67.54	
40 05 19 00-2112	EA	16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	81.17	
40 05 19 00-2113	EA	18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	81.76	
40 05 19 00-2114	EA	20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	83.54	
40 05 19 00-2115	EA	24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	97.17	
40 05 19 00-2116	EA	30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	119.09	
40 05 19 00-2117	EA	36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	135.68	
40 05 19 00-2118	EA	42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	194.34	
40 05 19 00-2119	EA	48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	214.48	
40 05 19 00-2120		Full Face Flange Neoprene Gaskets (40 05 19 00-2074)		
Note: (Polychloroprene)				
40 05 19 00-2121	EA	4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	20.74	
40 05 19 00-2122	EA	6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	29.03	
40 05 19 00-2123	EA	8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	44.44	
40 05 19 00-2124	EA	10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	47.99	
40 05 19 00-2125	EA	12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	51.55	
40 05 19 00-2126	EA	14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	68.73	
40 05 19 00-2127	EA	16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	120.87	
40 05 19 00-2128	EA	18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	121.46	
40 05 19 00-2129	EA	20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	128.57	
40 05 19 00-2130	EA	24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	130.35	
40 05 19 00-2131	EA	30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	141.61	
40 05 19 00-2132	EA	36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	159.38	
40 05 19 00-2133	EA	42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	231.08	
40 05 19 00-2134	EA	48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	253.00	
40 05 19 00-2135		Full Face Flange FKM Gaskets (40 05 19 00-2074)		
Note: (Fluoroelastomer Fluorel Viton®)				
40 05 19 00-2136	EA	4" Full Face Flange FKM Gasket, 1/8" Thick.....	77.31	
40 05 19 00-2137	EA	6" Full Face Flange FKM Gasket, 1/8" Thick.....	115.10	
40 05 19 00-2138	EA	8" Full Face Flange FKM Gasket, 1/8" Thick.....	153.75	
40 05 19 00-2139	EA	10" Full Face Flange FKM Gasket, 1/8" Thick.....	185.53	
40 05 19 00-2140	EA	12" Full Face Flange FKM Gasket, 1/8" Thick.....	241.36	
40 05 19 00-2141	EA	14" Full Face Flange FKM Gasket, 1/8" Thick.....	441.50	
40 05 19 00-2142	EA	16" Full Face Flange FKM Gasket, 1/8" Thick.....	505.92	
40 05 19 00-2143	EA	18" Full Face Flange FKM Gasket, 1/8" Thick.....	529.97	
40 05 19 00-2144	EA	20" Full Face Flange FKM Gasket, 1/8" Thick.....	565.19	
40 05 19 00-2145	EA	24" Full Face Flange FKM Gasket, 1/8" Thick.....	781.64	
40 05 19 00-2146	EA	30" Full Face Flange FKM Gasket, 1/8" Thick.....	937.11	
40 05 19 00-2147	EA	36" Full Face Flange FKM Gasket, 1/8" Thick.....	988.65	
40 05 19 00-2148	EA	42" Full Face Flange FKM Gasket, 1/8" Thick.....	1,232.59	
40 05 19 00-2149	EA	48" Full Face Flange FKM Gasket, 1/8" Thick.....	1,291.86	
40 05 19 00-2150		Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)		
40 05 19 00-2151	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	370.38	73.05
40 05 19 00-2152	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	512.53	89.16
40 05 19 00-2153	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	756.45	108.76
40 05 19 00-2154	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,037.34	132.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2155 EA 12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,316.32	161.78
40 05 19 00-2156 EA 14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,108.79	197.38
40 05 19 00-2157 EA 16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,309.66	240.88
40 05 19 00-2158 EA 18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,421.72	293.80
40 05 19 00-2159 EA 20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,191.97	358.51
40 05 19 00-2160 EA 24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,674.40	437.29
40 05 19 00-2161 EA 30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,021.39	533.60
40 05 19 00-2162 EA 36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	8,937.88	650.90
40 05 19 00-2163 EA 42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	23,213.31	794.18
40 05 19 00-2164 EA 48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	29,646.42	968.84

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)

40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)

40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23 23)

<i>Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.</i>		
40 05 23 23-0002 LF 1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	34.44	11.54
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	2.92	
	6.96	
40 05 23 23-0003 LF 3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	39.35	13.23
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	3.06	
	8.27	
40 05 23 23-0004 LF 1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	45.78	14.93
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	3.59	
	9.59	
40 05 23 23-0005 LF 1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	51.86	18.03
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	4.53	
	10.33	
40 05 23 23-0006 LF 1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	56.87	18.54
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	5.19	
	11.07	
40 05 23 23-0007 LF 2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	68.81	24.51
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	6.33	
	13.34	
40 05 23 23-0008 LF 2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	96.94	30.21
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	10.88	
	16.53	
40 05 23 23-0009 LF 3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	121.90	35.01
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Type 316, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
	14.17	
	20.22	
40 05 23 23-0010 LF 4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly	163.99	35.01
<i>Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>		
	25.65	

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)

40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)

40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)

40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing	9.50	3.80
<i>For Work In Restricted Working Space, Add</i>		
	2.27	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing	11.09	4.51
<i>For Work In Restricted Working Space, Add</i>		
	2.72	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing	13.19	5.35
<i>For Work In Restricted Working Space, Add</i>		
	3.18	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing	20.01	6.06
<i>For Work In Restricted Working Space, Add</i>		
	3.63	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing	23.52	6.76
<i>For Work In Restricted Working Space, Add</i>		
	4.08	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing	26.05	7.61
<i>For Work In Restricted Working Space, Add</i>		
	4.55	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing	29.47	9.15
<i>For Work In Restricted Working Space, Add</i>		
	5.45	

40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)

40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing	14.81	4.51
<i>For Work In Restricted Working Space, Add</i>		
	2.72	
40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing	16.65	5.35
<i>For Work In Restricted Working Space, Add</i>		
	3.18	
40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing	19.83	6.06
<i>For Work In Restricted Working Space, Add</i>		
	3.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0025	LF	5/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	25.06 4.55	7.61
40 05 23 23-0026	LF	3/4"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	28.91 5.45	9.15
40 05 23 23-0027	LF	7/8"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	32.70 6.36	10.56
40 05 23 23-0028	LF	1"	0.049" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	37.62 7.22	11.97
40 05 23 23-0029			0.065" Wall (40 05 23 23-0012)		
40 05 23 23-0030	LF	1/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	17.30 3.18	5.35
40 05 23 23-0031	LF	3/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	19.88 3.63	6.06
40 05 23 23-0032	LF	1/2"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	24.58 4.55	7.61
40 05 23 23-0033	LF	5/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	29.00 5.45	9.15
40 05 23 23-0034	LF	3/4"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	34.13 6.36	10.56
40 05 23 23-0035	LF	7/8"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	39.14 7.22	11.97
40 05 23 23-0036	LF	1"	0.065" Wall, Type 304, Stainless Steel Tubing <i>For Work In Restricted Working Space, Add</i>	44.09 8.13	13.52
40 05 23 23-0037			Type 304 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0038			90 Degree Elbows (40 05 23 23-0037)		
40 05 23 23-0039	EA	1/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.76 9.09	15.22
40 05 23 23-0040	EA	3/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.00 9.95	16.63
40 05 23 23-0041	EA	1/2"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	92.88 11.27	18.74
40 05 23 23-0042	EA	5/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	99.76 12.62	20.99
40 05 23 23-0043	EA	3/4"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	111.13 13.64	22.69
40 05 23 23-0044	EA	7/8"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	148.44 15.10	25.22
40 05 23 23-0045	EA	1"	Type 304, Stainless Steel, 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	187.87 17.99	30.01
40 05 23 23-0046			Union Tees (40 05 23 23-0037)		
40 05 23 23-0047	EA	1/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	86.13 13.64	22.69
40 05 23 23-0048	EA	3/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	103.10 15.10	25.22
40 05 23 23-0049	EA	1/2"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	137.33 16.91	28.18
40 05 23 23-0050	EA	5/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	148.73 19.21	31.98
40 05 23 23-0051	EA	3/4"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	186.27 20.62	34.37
40 05 23 23-0052	EA	7/8"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	286.49 22.85	38.04
40 05 23 23-0053	EA	1"	Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	343.25 27.27	45.51
40 05 23 23-0054			Unions (40 05 23 23-0037)		
40 05 23 23-0055	EA	1/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	82.89 13.64	22.69
40 05 23 23-0056	EA	3/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	104.93 15.10	25.22
40 05 23 23-0057	EA	1/2"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	138.53 16.91	28.18
40 05 23 23-0058	EA	5/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	167.53 19.21	31.98
40 05 23 23-0059	EA	3/4"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	197.71 20.62	34.37
40 05 23 23-0060	EA	7/8"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	295.62 22.85	38.04
40 05 23 23-0061	EA	1"	Type 304, Stainless Steel, Union <i>For Work In Restricted Working Space, Add</i>	317.39 27.27	45.51
40 05 23 23-0062			Male Connectors (40 05 23 23-0037)		
40 05 23 23-0063	EA	1/4" x 1/4"	Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	43.18 9.09	15.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	52.60 9.95	16.63
40 05 23 23-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	66.67 11.27	18.74
40 05 23 23-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	75.06 12.62	20.99
40 05 23 23-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	89.17 13.64	22.69
40 05 23 23-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	129.19 15.10	25.22
40 05 23 23-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	137.35 17.99	30.01
40 05 23 23-0070 Type 304 Valves (40 05 23 23-0011)		
40 05 23 23-0071 Gate Valves (40 05 23 23-0070)		
40 05 23 23-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	175.64 12.31	22.69
40 05 23 23-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	285.93 12.96	26.63
40 05 23 23-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	302.70 17.99	30.01
40 05 23 23-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	336.43 20.62	34.37
40 05 23 23-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	319.59 27.27	45.51
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	177.84 12.31	22.69
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	123.72 12.96	26.63
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	215.45 17.99	30.01
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	240.61 20.62	34.37
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	347.36 27.27	45.51
40 05 23 23-0083 Check Valves (40 05 23 23-0070)		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	242.66 12.31	22.69
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	244.83 12.96	26.63
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	172.67 17.99	30.01
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	183.08 20.62	34.37
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	208.51 27.27	45.51
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)		
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	373.99 17.99	30.01
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	410.67 20.62	34.37
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	470.06 27.27	45.51
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	643.79 30.85	51.43
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	841.04 42.27	70.45
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)		
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	9.79 2.27	3.80
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	12.54 2.72	4.51
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	14.07 3.18	5.35
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	22.35 3.63	6.06
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	25.33 4.08	6.76
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	31.63 4.55	7.61

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall <i>For Work In Restricted Working Space, Add</i>	33.79 5.45	9.15
40 05 23 23-0104 0.049" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	16.07 2.72	4.51
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	17.96 3.18	5.35
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	21.06 3.63	6.06
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	27.33 4.55	7.61
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	31.73 5.45	9.15
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	39.96 6.36	10.56
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall <i>For Work In Restricted Working Space, Add</i>	41.43 7.22	11.97
40 05 23 23-0112 0.065" Wall <small>(40 05 23 23-0095)</small>		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	18.79 3.18	5.35
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	21.02 3.63	6.06
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	26.37 4.55	7.61
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	31.46 5.45	9.15
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	37.90 6.36	10.56
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	41.94 7.22	11.97
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall <i>For Work In Restricted Working Space, Add</i>	48.61 8.13	13.52
40 05 23 23-0120 Type 316 Tube Fittings <small>(40 05 23 23-0011)</small>		
40 05 23 23-0121 90 Degree Elbows <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	72.43 9.09	15.22
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	86.27 9.95	16.63
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	132.81 11.27	18.74
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	141.42 12.62	20.99
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	158.55 13.64	22.69
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	219.28 15.10	25.22
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	280.21 17.99	30.01
40 05 23 23-0129 Union Tees <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	115.51 13.64	22.69
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	141.21 15.10	25.22
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	195.79 16.91	28.18
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	209.88 19.21	31.98
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	271.12 20.62	34.37
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	438.35 22.85	38.04
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	525.45 27.27	45.51
40 05 23 23-0137 Unions <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	78.42 13.64	22.69
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	98.40 15.10	25.22
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	128.71 16.91	28.18
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316 <i>For Work In Restricted Working Space, Add</i>	155.16 19.21	31.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316.....	182.29	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316.....	269.38	38.04
<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316.....	290.32	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0145 Male Connectors <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316.....	52.28	15.22
<i>For Work In Restricted Working Space, Add</i>	9.09	
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316.....	66.35	16.63
<i>For Work In Restricted Working Space, Add</i>	9.95	
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316.....	87.25	18.74
<i>For Work In Restricted Working Space, Add</i>	11.27	
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316.....	98.38	20.99
<i>For Work In Restricted Working Space, Add</i>	12.62	
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316.....	120.09	22.69
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316.....	184.94	25.22
<i>For Work In Restricted Working Space, Add</i>	15.10	
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316.....	192.06	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0153 Type 316 Valves <small>(40 05 23 23-0011)</small>		
40 05 23 23-0154 Gate Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316	219.10	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316	364.30	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316	381.07	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316	422.86	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316	393.43	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316	529.20	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	
40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316	832.15	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316	996.61	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316	1,569.27	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0164 Globe Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316	222.02	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316	149.72	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316	265.66	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316	296.10	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316	430.16	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316	529.90	46.92
<i>For Work In Restricted Working Space, Add</i>	28.11	
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316	861.32	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316	1,025.79	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316	1,384.51	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0174 Check Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316.....	307.76	22.69
<i>For Work In Restricted Working Space, Add</i>	12.31	
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316.....	309.93	26.63
<i>For Work In Restricted Working Space, Add</i>	12.96	
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316.....	209.06	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316.....	219.99	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316.....	246.49	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316.....	329.53	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316.....	696.01	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316.....	850.75	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316.....	1,747.54	225.56
<i>For Work In Restricted Working Space, Add</i>	135.30	
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	336.40	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	392.50	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	501.77	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	784.47	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined.....	1,095.17	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0190 Diaphragm Valves, Teflon Lined <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	438.64	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	504.21	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0193 EA 1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	613.48	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0194 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	941.62	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0195 EA 2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined.....	1,282.61	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0196 Strainers <small>(40 05 23 23-0153)</small>		
40 05 23 23-0197 EA 1/2" Strainer, Stainless Steel Type 316.....	439.63	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0198 EA 3/4" Strainer, Stainless Steel Type 316.....	525.15	34.52
<i>For Work In Restricted Working Space, Add</i>	20.71	
40 05 23 23-0199 EA 1" Strainer, Stainless Steel Type 316.....	687.56	45.79
<i>For Work In Restricted Working Space, Add</i>	27.48	
40 05 23 23-0200 EA 1-1/4" Strainer, Stainless Steel Type 316.....	846.86	47.20
<i>For Work In Restricted Working Space, Add</i>	28.32	
40 05 23 23-0201 EA 1-1/2" Strainer, Stainless Steel Type 316.....	1,057.37	51.43
<i>For Work In Restricted Working Space, Add</i>	30.86	
40 05 23 23-0202 EA 2" Strainer, Stainless Steel Type 316.....	1,522.22	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0203 EA 2-1/2" Strainer, Stainless Steel Type 316.....	2,089.73	93.69
<i>For Work In Restricted Working Space, Add</i>	56.22	
40 05 23 23-0204 EA 3" Strainer, Stainless Steel Type 316.....	3,046.39	140.89
<i>For Work In Restricted Working Space, Add</i>	84.53	
40 05 23 23-0205 EA 4" Strainer, Stainless Steel Type 316.....	3,931.55	225.42
<i>For Work In Restricted Working Space, Add</i>	135.24	
40 05 23 23-0206 Plug Valves <small>(40 05 23 23-0153)</small>		
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316.....	467.07	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316.....	512.03	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316.....	582.45	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316.....	804.14	51.43
<i>For Work In Restricted Working Space, Add</i>	30.85	
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316.....	1,048.58	70.45
<i>For Work In Restricted Working Space, Add</i>	42.27	
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place <small>(40 05 23 23-0011)</small>		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	28.17	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	30.42	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	34.22	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	35.91	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	38.02	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	40.84	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	43.67	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	47.89	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	52.11	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	56.34	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	60.56	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	66.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe	71.83	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe	77.47	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe	83.10	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe	87.32	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe	91.54	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe	97.18	
40 05 23 23-0231 Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings <i>(40 05 23 23-0231)</i>		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	17.62	6.06
<i>For Work In Restricted Working Space, Add</i>	3.63	
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	21.80	7.61
<i>For Work In Restricted Working Space, Add</i>	4.55	
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	26.63	9.15
<i>For Work In Restricted Working Space, Add</i>	5.45	
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	31.74	10.56
<i>For Work In Restricted Working Space, Add</i>	6.36	
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	36.56	11.97
<i>For Work In Restricted Working Space, Add</i>	7.22	
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	46.54	15.22
<i>For Work In Restricted Working Space, Add</i>	9.09	
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	61.20	18.04
<i>For Work In Restricted Working Space, Add</i>	10.84	
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	76.93	22.69
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting	103.55	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	47.88	22.69
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	63.44	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	81.22	38.04
<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	113.02	52.13
<i>For Work In Restricted Working Space, Add</i>	31.31	
40 05 23 23-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	134.04	61.28
<i>For Work In Restricted Working Space, Add</i>	36.75	
40 05 23 23-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	162.94	74.11
<i>For Work In Restricted Working Space, Add</i>	44.49	
40 05 23 23-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	268.15	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	345.44	151.45
<i>For Work In Restricted Working Space, Add</i>	90.90	
40 05 23 23-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow	458.56	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	48.45	22.69
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	64.34	30.01
<i>For Work In Restricted Working Space, Add</i>	17.99	
40 05 23 23-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	81.50	38.04
<i>For Work In Restricted Working Space, Add</i>	22.85	
40 05 23 23-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	112.91	52.13
<i>For Work In Restricted Working Space, Add</i>	31.31	
40 05 23 23-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	132.70	61.28
<i>For Work In Restricted Working Space, Add</i>	36.75	
40 05 23 23-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	162.62	74.11
<i>For Work In Restricted Working Space, Add</i>	44.49	
40 05 23 23-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	274.22	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	357.29	151.45
<i>For Work In Restricted Working Space, Add</i>	90.90	
40 05 23 23-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow	472.35	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee.....	72.04	34.37
<i>For Work In Restricted Working Space, Add</i>	20.62	
40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee.....	96.14	45.51
<i>For Work In Restricted Working Space, Add</i>	27.27	
40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee.....	119.39	56.36
<i>For Work In Restricted Working Space, Add</i>	33.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	169.82 46.96	78.34
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	192.62 52.83	88.05
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	256.02 70.45	117.36
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	384.96 101.85	169.77
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	520.00 136.35	227.25
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	681.89 169.07	281.78
40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	63.02 17.99	30.01
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	80.33 22.85	38.04
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	110.48 31.31	52.13
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	131.31 36.75	61.28
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	163.00 44.49	74.11
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	266.35 70.45	117.36
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	347.89 90.90	151.45
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	450.09 112.71	187.81
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	24.35 6.82	11.41
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.33 9.09	15.22
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	40.61 11.27	18.74
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	58.68 15.95	26.63
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	67.18 17.99	30.01
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	85.36 22.85	38.04
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	129.33 33.81	56.36
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	171.27 44.49	74.11
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	226.72 56.36	93.97
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	75.56 20.62	34.37
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	99.56 27.27	45.51
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	125.78 33.81	56.36
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	179.23 46.96	78.34
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	201.74 52.83	88.05
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	265.53 70.45	117.36
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	435.39 105.67	176.11
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	559.23 136.35	227.25
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	545.75 112.73	187.88
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	47.65 13.64	22.69
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	63.13 17.99	30.01
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	80.97 22.85	38.04



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	112.02 31.31	52.13
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	131.61 36.75	61.28
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	161.13 44.49	74.11
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	262.97 70.45	117.36
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	339.37 90.90	151.45
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	432.25 112.71	187.81
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0312)</small>		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	20.55 3.63	6.06
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	24.68 4.55	7.61
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	30.77 5.45	9.15
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	37.16 6.36	10.56
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	42.98 7.22	11.97
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	55.13 9.09	15.22
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	73.21 10.84	18.04
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	94.85 13.64	22.69
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	126.86 17.99	30.01
40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	48.62 13.64	22.69
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.53 17.99	30.01
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	81.89 22.85	38.04
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	114.22 31.31	52.13
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	135.65 36.75	61.28
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.92 44.49	74.11
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	271.31 70.45	117.36
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	353.20 90.90	151.45
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	467.98 112.71	187.81
40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows <small>(40 05 23 23-0312)</small>		
40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	49.21 13.64	22.69
40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	64.91 17.99	30.01
40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	82.33 22.85	38.04
40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	114.10 31.31	52.13
40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	134.09 36.75	61.28
40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	164.48 44.49	74.11
40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	277.20 70.45	117.36
40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	364.15 90.90	151.45
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	490.87 112.71	187.81
40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees <small>(40 05 23 23-0312)</small>		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	72.82 20.62	34.37

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	96.94 27.27	45.51
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	120.28 33.81	56.36
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	171.63 46.96	78.34
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	194.41 52.83	88.05
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	258.38 70.45	117.36
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	394.58 101.85	169.77
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	533.13 136.35	227.25
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	691.67 169.07	281.78
40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	63.69 17.99	30.01
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	82.31 22.85	38.04
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	110.85 31.31	52.13
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	133.26 36.75	61.28
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	166.41 44.49	74.11
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	274.12 70.45	117.36
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	356.47 90.90	151.45
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	464.39 112.71	187.81
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	24.79 6.82	11.41
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	32.66 9.09	15.22
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	41.19 11.27	18.74
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	60.28 15.95	26.63
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	69.09 17.99	30.01
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	87.84 22.85	38.04
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	133.43 33.81	56.36
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	175.43 44.49	74.11
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	234.98 56.36	93.97
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	76.50 20.62	34.37
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union..... <i>For Work In Restricted Working Space, Add</i>	103.10 27.27	45.51
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	127.58 33.81	56.36
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	182.27 46.96	78.34
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	205.30 52.83	88.05
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	269.64 70.45	117.36
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	441.71 105.67	176.11
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	578.92 136.35	227.25
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	587.72 112.73	187.88
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	49.13 13.64	22.69



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Stainless Steel Process Pipe and Tubing 40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	63.81 17.99	30.01
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	81.63 22.85	38.04
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	113.07 31.31	52.13
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	132.85 36.75	61.28
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	162.86 44.49	74.11
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	269.02 70.45	117.36
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	347.18 90.90	151.45
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling..... <i>For Work In Restricted Working Space, Add</i>	443.95 112.71	187.81
40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings <small>(40 05 23 23-0231)</small>		
40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe <small>(40 05 23 23-0392)</small>		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	18.97 3.54	5.90
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	22.72 4.33	7.22
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.26 5.08	8.53
40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	35.92 6.35	10.62
40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	40.09 7.16	11.94
40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	49.58 8.86	14.83
40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	58.70 10.13	16.92
40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.57 11.41	19.02
40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	85.07 13.50	22.56
40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	121.66 17.73	29.65
40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	197.74 30.58	47.59
40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	247.05 33.64	52.33
40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	292.75 37.38	58.19
40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	356.15 42.05	65.41
40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	393.93 48.06	74.76
40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	443.63 56.07	87.22
40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	605.18 67.28	104.66
40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	785.51 84.10	130.83
40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow <small>(40 05 23 23-0392)</small>		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	152.52 44.86	67.29
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	161.71 47.62	71.42
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	177.96 52.33	78.50
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	194.09 57.04	85.56
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.36 62.99	94.48
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.04 70.07	105.11
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	308.28 89.69	134.52
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	361.46 105.11	157.67
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	437.49 125.81	188.72
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	572.45 157.16	235.75
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	890.12 240.29	360.45

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,259.20 320.39	480.58
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,896.59 480.59	720.89
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,230.57 560.69	841.03
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,589.83 639.57	959.35
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,261.53 800.99	1,201.48
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,554.55 1,121.38	1,682.07
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,525.84 1,601.97	2,402.95
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.40 44.86	67.29
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.59 47.62	71.42
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.02 52.33	78.50
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	195.50 57.04	85.56
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.54 62.99	94.48
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	239.04 70.07	105.11
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	307.40 89.69	134.52
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	359.87 105.11	157.67
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	434.50 125.81	188.72
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	556.78 157.16	235.75
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	859.91 240.29	360.45
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,205.41 320.39	480.58
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,811.43 480.59	720.89
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,126.04 560.69	841.03
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,460.83 639.57	959.35
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,092.12 800.99	1,201.48
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,325.95 1,121.38	1,682.07
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,201.56 1,601.97	2,402.95
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	199.75 57.02	85.53
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	242.99 69.99	105.00
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	271.83 78.65	117.97
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	309.70 89.69	134.52
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	330.57 96.27	144.40
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	360.38 105.00	157.49
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	448.66 125.81	188.72
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	544.56 157.67	236.50
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	618.34 176.95	265.43
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	862.31 235.94	353.89
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,246.85 320.39	480.58
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,896.59 480.59	720.89
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,411.70 600.74	901.11



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,939.99 721.92	1,082.87
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,571.00 880.67	1,320.99
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,545.16 1,121.38	1,682.07
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,040.40 1,475.50	2,213.25
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,103.64 2,242.76	3,364.13
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	176.05 47.64	71.45
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	211.83 58.37	87.56
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	250.13 65.59	98.38
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	270.89 74.77	112.16
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	287.36 80.35	120.52
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	344.85 87.56	131.34
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	409.34 104.96	157.43
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	507.66 131.18	196.77
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	629.51 149.89	224.83
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,011.14 200.24	300.37
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,568.01 267.00	400.50
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,270.18 400.49	600.73
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,746.86 481.14	721.72
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,387.88 586.90	880.36
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,358.75 747.59	1,121.37
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,074.47 983.67	1,475.49
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,431.95 1,493.84	2,240.76
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	150.38 43.32	64.98
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	164.75 47.21	70.81
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	182.63 52.33	78.50
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	196.63 57.04	85.56
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	215.77 62.99	94.48
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	279.61 78.71	118.07
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	317.16 89.60	134.41
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	371.15 105.00	157.49
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	475.85 133.67	200.51
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	689.41 192.24	288.36
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	870.36 240.29	360.45
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,166.25 320.39	480.58
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,606.12 420.52	630.77
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,858.59 479.22	718.82
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,304.88 600.74	901.11
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,169.56 800.99	1,201.48
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,642.93 1,201.48	1,802.21

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.93 43.32	64.98
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	176.90 47.21	70.81
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	190.95 52.33	78.50
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	211.77 57.04	85.56
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	226.68 62.99	94.48
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	291.58 78.71	118.07
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	328.95 89.60	134.41
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	380.27 105.00	157.49
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	508.76 133.67	200.51
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	759.96 192.24	288.36
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,007.98 240.29	360.45
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,293.41 320.39	480.58
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,899.47 420.52	630.77
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,194.72 479.22	718.82
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,715.11 600.74	901.11
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,826.94 800.99	1,201.48
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,514.16 1,201.48	1,802.21
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	80.23 22.43	33.65
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	86.75 23.81	35.71
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	95.32 26.17	39.25
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	104.48 28.52	42.77
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	113.60 31.49	47.24
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	124.36 35.04	52.56
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	160.39 44.84	67.27
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	184.52 52.56	78.84
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	221.66 62.91	94.35
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	281.90 78.71	118.07
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	435.67 120.15	180.22
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	580.44 160.19	240.30
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	861.52 240.29	360.44
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,008.68 280.34	420.52
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,161.66 319.79	479.67
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,462.10 400.49	600.73
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,030.59 560.69	841.03
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,954.76 800.99	1,201.47
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	20.73 3.54	5.90
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	25.21 4.33	7.22
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	30.61 5.08	8.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	38.27 6.35	10.49
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	43.90 7.16	11.81
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.86 8.86	15.08
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.28 10.13	17.06
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	68.40 11.41	19.02
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	106.43 13.50	22.30
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	161.74 17.73	29.51
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	277.91 30.58	47.35
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	346.76 33.64	52.33
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	427.66 37.38	57.93
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	153.23 44.86	67.29
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	162.42 47.62	71.42
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	178.49 52.33	78.50
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	194.47 57.04	85.56
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	214.71 62.99	94.48
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	312.85 89.69	134.52
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	368.15 105.11	157.67
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	448.75 125.81	188.72
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	644.43 157.16	235.75
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	988.21 240.29	360.45
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,458.22 320.39	480.58
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,154.72 480.59	720.89
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,543.71 560.69	841.03
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,992.11 639.57	959.35
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,820.48 800.99	1,201.48
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,244.45 1,121.38	1,682.07
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,510.10 1,601.97	2,402.95
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	154.46 44.86	67.29
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	163.65 47.62	71.42
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	179.37 52.33	78.50
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	195.37 57.04	85.56
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	215.59 62.99	94.48
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	240.46 70.07	105.11
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	312.85 89.69	134.52
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	363.22 105.11	157.67
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	451.39 125.81	188.72
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	584.41 157.16	235.75

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	925.29 240.29	360.45
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,301.03 320.39	480.58
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,922.83 480.59	720.89
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,204.60 560.69	841.03
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,588.36 639.57	959.35
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,257.20 800.99	1,201.48
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,484.39 1,121.38	1,682.07
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,470.57 1,601.97	2,402.95
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	200.45 57.02	85.53
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	243.69 69.99	105.00
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	272.53 78.65	117.97
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	311.49 89.69	134.52
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	331.27 96.27	144.40
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	361.26 105.00	157.49
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	451.04 125.81	188.72
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	548.25 157.67	236.50
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	622.39 176.95	265.43
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	890.29 235.94	353.89
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,329.91 320.39	480.58
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,151.50 480.59	720.89
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,680.48 600.74	901.11
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,481.58 721.92	1,082.87
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,361.69 880.67	1,320.99
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,618.71 1,121.38	1,682.07
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,299.66 1,475.50	2,213.25
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,148.83 2,242.76	3,364.13
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	178.34 47.64	71.45
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	214.12 58.37	87.56
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	261.14 65.59	98.38
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	274.23 74.77	112.16
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	287.36 80.35	120.52
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	333.60 87.56	131.34
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	384.52 104.96	157.43
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	494.64 131.18	196.77
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	631.62 149.89	224.83
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	936.44 200.24	300.37
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,591.38 267.00	400.50
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,316.94 400.49	600.73
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,681.25 481.14	721.72



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	40 05 23 23-0627	EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,305.71 586.90	880.36
	40 05 23 23-0628	EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,251.60 747.59	1,121.37
	40 05 23 23-0629	EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,914.00 983.67	1,475.49
	40 05 23 23-0630	EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	9,176.39 1,493.84	2,240.76
40 05 23 23-0631	Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)			
	40 05 23 23-0632	EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	152.14 43.32	64.98
	40 05 23 23-0633	EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.51 47.21	70.81
	40 05 23 23-0634	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	182.76 52.33	78.50
	40 05 23 23-0635	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	198.39 57.04	85.56
	40 05 23 23-0636	EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	216.82 62.99	94.48
	40 05 23 23-0637	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	279.61 78.71	118.07
	40 05 23 23-0638	EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	310.82 89.60	134.41
	40 05 23 23-0639	EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	362.14 105.00	157.49
	40 05 23 23-0640	EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	477.26 133.67	200.51
	40 05 23 23-0641	EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	719.30 192.24	288.36
	40 05 23 23-0642	EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	921.68 240.29	360.45
	40 05 23 23-0643	EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,212.06 320.39	480.58
	40 05 23 23-0644	EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,708.92 420.52	630.77
	40 05 23 23-0645	EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,987.82 479.22	718.82
	40 05 23 23-0646	EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,566.57 600.74	901.11
	40 05 23 23-0647	EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,478.24 800.99	1,201.48
	40 05 23 23-0648	EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,962.60 1,201.48	1,802.21
	40 05 23 23-0649	EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	167.64 43.32	64.98
	40 05 23 23-0650	EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	180.59 47.21	70.81
	40 05 23 23-0651	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	203.62 52.33	78.50
	40 05 23 23-0652	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	218.28 57.04	85.56
	40 05 23 23-0653	EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	236.71 62.99	94.48
	40 05 23 23-0654	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	291.58 78.71	118.07
	40 05 23 23-0655	EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	350.78 89.60	134.41
	40 05 23 23-0656	EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	395.06 105.00	157.49
	40 05 23 23-0657	EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	523.37 133.67	200.51
	40 05 23 23-0658	EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	761.49 192.24	288.36
	40 05 23 23-0659	EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,006.65 240.29	360.45
	40 05 23 23-0660	EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,362.60 320.39	480.58
	40 05 23 23-0661	EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,077.92 420.52	630.77
	40 05 23 23-0662	EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,360.24 479.22	718.82
	40 05 23 23-0663	EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,048.37 600.74	901.11
	40 05 23 23-0664	EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,991.41 800.99	1,201.48
	40 05 23 23-0665	EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	6,243.15 1,201.48	1,802.21
40 05 23 23-0666	Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)			
	40 05 23 23-0667	EA 1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	80.75 22.43	33.65

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	86.22 23.81	35.71
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	95.84 26.17	39.25
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	106.84 28.52	42.77
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	115.89 31.49	47.24
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	124.18 35.04	52.56
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	159.21 44.84	67.27
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	185.22 52.56	78.84
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	223.77 62.91	94.35
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	294.92 78.71	118.07
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	456.58 120.15	180.22
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	610.01 160.19	240.30
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	917.88 240.29	360.44
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,060.30 280.34	420.52
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,232.67 319.79	479.67
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,546.26 400.49	600.73
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,142.82 560.69	841.03
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,142.41 800.99	1,201.47
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-02317)		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	21.21 3.54	5.90
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	25.30 4.33	7.22
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	33.12 5.08	8.53
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	40.53 6.35	10.62
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	45.16 7.16	11.94
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	55.84 8.86	14.83
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	66.48 10.13	16.92
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	78.11 11.41	19.02
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	97.59 13.50	22.56
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	141.20 17.73	29.65
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	227.66 30.58	47.59
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	289.18 33.64	52.33
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	345.26 37.38	58.19
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	423.59 42.05	65.41
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	466.93 48.06	74.76
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	523.81 56.07	87.22
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	724.13 67.28	104.66
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	943.28 84.10	130.83
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.40 44.86	67.29
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	162.59 47.62	71.42



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0708	EA		1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.02 52.33	78.50
40 05 23 23-0709	EA		1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	195.62 57.04	85.56
40 05 23 23-0710	EA		1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.42 62.99	94.48
40 05 23 23-0711	EA		2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0712	EA		2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	310.57 89.69	134.52
40 05 23 23-0713	EA		3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	364.80 105.11	157.67
40 05 23 23-0714	EA		4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	442.59 125.81	188.72
40 05 23 23-0715	EA		6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	585.82 157.16	235.75
40 05 23 23-0716	EA		8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	915.03 240.29	360.45
40 05 23 23-0717	EA		10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,316.79 320.39	480.58
40 05 23 23-0718	EA		12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,975.10 480.59	720.89
40 05 23 23-0719	EA		14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,304.45 560.69	841.03
40 05 23 23-0720	EA		16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,706.68 639.57	959.35
40 05 23 23-0721	EA		18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,401.65 800.99	1,201.48
40 05 23 23-0722	EA		20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,754.71 1,121.38	1,682.07
40 05 23 23-0723	EA		24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,823.26 1,601.97	2,402.95
40 05 23 23-0724	Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows <small>(40 05 23 23-0685)</small>				
40 05 23 23-0725	EA		1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	154.46 44.86	67.29
40 05 23 23-0726	EA		3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.65 47.62	71.42
40 05 23 23-0727	EA		1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	180.07 52.33	78.50
40 05 23 23-0728	EA		1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	197.03 57.04	85.56
40 05 23 23-0729	EA		1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	215.42 62.99	94.48
40 05 23 23-0730	EA		2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	240.27 70.07	105.11
40 05 23 23-0731	EA		2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	309.51 89.69	134.52
40 05 23 23-0732	EA		3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	363.22 105.11	157.67
40 05 23 23-0733	EA		4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	438.90 125.81	188.72
40 05 23 23-0734	EA		6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	564.00 157.16	235.75
40 05 23 23-0735	EA		8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	875.87 240.29	360.45
40 05 23 23-0736	EA		10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,301.03 320.39	480.58
40 05 23 23-0737	EA		12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,922.83 480.59	720.89
40 05 23 23-0738	EA		14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,255.46 560.69	841.03
40 05 23 23-0739	EA		16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,616.88 639.57	959.35
40 05 23 23-0740	EA		18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,295.89 800.99	1,201.48
40 05 23 23-0741	EA		20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,659.69 1,121.38	1,682.07
40 05 23 23-0742	EA		24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,696.70 1,601.97	2,402.95
40 05 23 23-0743	Type 316, Schedule 10 Stainless Steel Butt Weld Tees <small>(40 05 23 23-0685)</small>				
40 05 23 23-0744	EA		1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	202.04 57.02	85.53
40 05 23 23-0745	EA		3/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	245.28 69.99	105.00
40 05 23 23-0746	EA		1", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	274.12 78.65	117.97
40 05 23 23-0747	EA		1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	313.93 89.69	134.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	333.91 96.27	144.40
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	363.38 105.00	157.49
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	439.07 125.81	188.72
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	550.37 157.67	236.50
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	626.26 176.95	265.43
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	885.01 235.94	353.89
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,306.53 320.39	480.58
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,011.21 480.59	720.89
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	2,563.57 600.74	901.11
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,221.59 721.92	1,082.87
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,843.71 880.67	1,320.99
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	4,888.28 1,121.38	1,682.07
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,540.77 1,475.50	2,213.25
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	9,542.49 2,242.76	3,364.13
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	181.50 47.64	71.45
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	218.34 58.37	87.56
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	258.06 65.59	98.38
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	276.34 74.77	112.16
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	294.92 80.35	120.52
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	367.73 87.56	131.34
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	388.75 104.96	157.43
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	507.66 131.18	196.77
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	662.07 149.89	224.83
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,105.81 200.24	300.37
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,883.73 267.00	400.50
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,539.14 400.49	600.73
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,925.06 481.14	721.72
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,611.05 586.90	880.36
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,649.78 747.59	1,121.37
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	6,510.28 983.67	1,475.49
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	10,126.07 1,493.84	2,240.76
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	151.97 43.32	64.98
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	166.69 47.21	70.81
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	185.45 52.33	78.50
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	197.86 57.04	85.56
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	216.82 62.99	94.48
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	278.87 78.71	118.07
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	321.38 89.60	134.41
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	363.40 105.00	157.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	484.48 133.67	200.51
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	698.43 192.24	288.36
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	891.47 240.29	360.45
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,191.16 320.39	480.58
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,640.42 420.52	630.77
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,891.07 479.22	718.82
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,352.62 600.74	901.11
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,243.33 800.99	1,201.48
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	4,773.72 1,201.48	1,802.21
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	165.65 43.32	64.98
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	182.94 47.21	70.81
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.71 52.33	78.50
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	220.39 57.04	85.56
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	230.73 62.99	94.48
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	298.09 78.71	118.07
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	341.10 89.60	134.41
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	390.13 105.00	157.49
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	530.41 133.67	200.51
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	797.98 192.24	288.36
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,062.91 240.29	360.45
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,369.06 320.39	480.58
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,977.79 420.52	630.77
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,298.83 479.22	718.82
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,859.24 600.74	901.11
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,053.57 800.99	1,201.48
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,735.94 1,201.48	1,802.21
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	82.51 22.43	33.65
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	89.74 23.81	35.71
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	98.48 26.17	39.25
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	107.54 28.52	42.77
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	117.30 31.49	47.24
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	126.47 35.04	52.56
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	159.72 44.84	67.27
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	188.21 52.56	78.84
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	225.35 62.91	94.35
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	288.41 78.71	118.07
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	447.26 120.15	180.22
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	594.52 160.19	240.30
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	882.12 240.29	360.44
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,027.25 280.34	420.52

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,177.35 319.79	479.67
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,480.08 400.49	600.73
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,059.27 560.69	841.03
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,043.06 800.99	1,201.47
40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	23.71 3.54	5.90
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	28.81 4.33	7.22
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	35.18 5.08	8.53
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	43.99 6.35	10.49
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	50.60 7.16	11.81
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	64.67 8.86	15.08
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	79.82 10.13	17.06
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	78.56 11.41	19.02
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	126.99 13.50	22.30
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	196.08 17.73	29.51
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	336.77 30.58	47.35
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	425.25 33.64	52.33
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting..... <i>For Work In Restricted Working Space, Add</i>	529.03 37.38	57.93
40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0634)		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	154.28 44.86	67.29
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	163.47 47.62	71.42
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.90 52.33	78.50
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	196.01 57.04	85.56
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	216.30 62.99	94.48
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	242.38 70.07	105.11
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	317.08 89.69	134.52
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	373.95 105.11	157.67
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	462.66 125.81	188.72
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	656.22 157.16	235.75
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,049.79 240.29	360.45
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,611.41 320.39	480.58
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,331.50 480.59	720.89
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,640.84 560.69	841.03
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,145.86 639.57	959.35
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,993.95 800.99	1,201.48
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,451.36 1,121.38	1,682.07
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,874.82 1,601.97	2,402.95
40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0634)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	156.04 44.86	67.29
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	165.23 47.62	71.42
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	180.95 52.33	78.50
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	196.52 57.04	85.56
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	217.35 62.99	94.48
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	242.38 70.07	105.11
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	317.08 89.69	134.52
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	367.09 105.11	157.67
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	449.63 125.81	188.72
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	602.72 157.16	235.75
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	955.52 240.29	360.45
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,394.16 320.39	480.58
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,040.67 480.59	720.89
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,339.84 560.69	841.03
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,652.03 639.57	959.35
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,379.17 800.99	1,201.48
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,640.40 1,121.38	1,682.07
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,791.82 1,601.97	2,402.95
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	203.09 57.02	85.53
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	246.33 69.99	105.00
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	275.17 78.65	117.97
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	315.46 89.69	134.52
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	333.91 96.27	144.40
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	364.08 105.00	157.49
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	445.34 125.81	188.72
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	553.71 157.67	236.50
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	632.07 176.95	265.43
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	926.37 235.94	353.89
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,412.79 320.39	480.58
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,291.77 480.59	720.89
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,832.54 600.74	901.11
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,854.31 721.92	1,082.87
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,755.48 880.67	1,320.99
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,131.18 1,121.38	1,682.07
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,992.87 1,475.50	2,213.25
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,639.74 2,242.76	3,364.13
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	184.85 47.64	71.45
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	220.63 58.37	87.56
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	272.14 65.59	98.38

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	281.80 74.77	112.16
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	294.92 80.35	120.52
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	368.78 87.56	131.34
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	396.31 104.96	157.43
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	515.23 131.18	196.77
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	666.82 149.89	224.83
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,012.29 200.24	300.37
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,907.12 267.00	400.50
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,585.90 400.49	600.73
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,976.36 481.14	721.72
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,675.31 586.90	880.36
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,733.57 747.59	1,121.37
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,635.77 983.67	1,475.49
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	10,325.93 1,493.84	2,240.76
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	154.78 43.32	64.98
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	169.50 47.21	70.81
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	186.73 52.33	78.50
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	201.03 57.04	85.56
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	218.76 62.99	94.48
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	285.06 78.71	118.07
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	314.52 89.60	134.41
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	365.84 105.00	157.49
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	485.71 133.67	200.51
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	735.26 192.24	288.36
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	960.84 240.29	360.45
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,240.96 320.39	480.58
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,735.28 420.52	630.77
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,992.02 479.22	718.82
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,604.79 600.74	901.11
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,513.06 800.99	1,201.48
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,114.32 1,201.48	1,802.21
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	174.67 43.32	64.98
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	187.63 47.21	70.81
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	213.86 52.33	78.50
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	225.85 57.04	85.56
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	245.16 62.99	94.48
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	298.09 78.71	118.07
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	365.38 89.60	134.41
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	409.49 105.00	157.49
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	557.34 133.67	200.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	788.86	288.36
<i>For Work In Restricted Working Space, Add</i>	192.24	
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,078.69	360.45
<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	1,476.65	480.58
<i>For Work In Restricted Working Space, Add</i>	320.39	
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,131.27	630.77
<i>For Work In Restricted Working Space, Add</i>	420.52	
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	2,447.90	718.82
<i>For Work In Restricted Working Space, Add</i>	479.22	
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	3,227.97	901.11
<i>For Work In Restricted Working Space, Add</i>	600.74	
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	4,191.08	1,201.48
<i>For Work In Restricted Working Space, Add</i>	800.99	
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer.....	6,284.08	1,802.21
<i>For Work In Restricted Working Space, Add</i>	1,201.48	
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps <small>(40 05 23 23-0834)</small>		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap	82.87	33.65
<i>For Work In Restricted Working Space, Add</i>	22.43	
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap	89.57	35.71
<i>For Work In Restricted Working Space, Add</i>	23.81	
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap	98.84	39.25
<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap	110.80	42.77
<i>For Work In Restricted Working Space, Add</i>	28.52	
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap	114.66	47.24
<i>For Work In Restricted Working Space, Add</i>	31.49	
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap	128.93	52.56
<i>For Work In Restricted Working Space, Add</i>	35.04	
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap	162.92	67.27
<i>For Work In Restricted Working Space, Add</i>	44.84	
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap	188.74	78.84
<i>For Work In Restricted Working Space, Add</i>	52.56	
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap	229.23	94.35
<i>For Work In Restricted Working Space, Add</i>	62.91	
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap	304.60	118.07
<i>For Work In Restricted Working Space, Add</i>	78.71	
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap	477.68	180.22
<i>For Work In Restricted Working Space, Add</i>	120.15	
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap	639.28	240.30
<i>For Work In Restricted Working Space, Add</i>	160.19	
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap	955.32	360.44
<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap	1,098.19	420.52
<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap	1,240.90	479.67
<i>For Work In Restricted Working Space, Add</i>	319.79	
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap	1,573.13	600.73
<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap	2,176.41	841.03
<i>For Work In Restricted Working Space, Add</i>	560.69	
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap	3,271.17	1,201.47
<i>For Work In Restricted Working Space, Add</i>	800.99	
40 05 23 23-0978 Valves <small>(40 05 23 23-0231)</small>		
40 05 23 23-0979 Gate Valves, Class 150 <small>(40 05 23 23-0978)</small>		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged.....	516.21	67.62
<i>For Work In Restricted Working Space, Add</i>	25.36	
<i>For Class 200, Deduct</i>	-115.47	
<i>For Class 300, Add</i>	405.78	
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged.....	563.30	70.45
<i>For Work In Restricted Working Space, Add</i>	29.59	
<i>For Class 200, Deduct</i>	-124.30	
<i>For Class 300, Add</i>	436.79	
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged.....	698.27	105.67
<i>For Work In Restricted Working Space, Add</i>	39.87	
<i>For Class 200, Deduct</i>	-151.23	
<i>For Class 300, Add</i>	531.44	
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged.....	875.26	123.27
<i>For Work In Restricted Working Space, Add</i>	45.94	
<i>For Class 200, Deduct</i>	-193.17	
<i>For Class 300, Add</i>	678.79	
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged.....	994.46	155.18
<i>For Work In Restricted Working Space, Add</i>	58.19	
<i>For Class 200, Deduct</i>	-214.13	
<i>For Class 300, Add</i>	752.46	
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged.....	1,182.14	187.81
<i>For Work In Restricted Working Space, Add</i>	70.45	
<i>For Class 200, Deduct</i>	-253.41	
<i>For Class 300, Add</i>	890.48	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,669.48 76.85 1,328.52	204.29
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,884.34 89.93 1,489.51	239.52
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,530.24 150.95 1,905.44	401.54
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,159.79 190.88 3,312.10	507.20
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	8,868.26 241.52 7,579.39	648.09
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	12,445.63 295.87 10,771.84	788.99
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	18,635.25 358.63 16,393.43	958.05
40 05 23 23-0993 Globe Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	694.34 25.36 -163.12 573.22	67.62
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	770.30 29.59 -179.67 631.37	70.45
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	963.66 39.87 -222.23 780.91	105.67
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,431.26 58.19 -330.98 1,163.05	155.18
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,746.08 70.45 -404.26 1,420.58	187.81
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,437.77 76.85 2,990.71	204.29
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,569.75 89.93 3,073.79	239.52
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,303.42 150.95 3,572.23	401.54
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,839.07 190.88 6,770.62	507.20
40 05 23 23-1003 Check Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,601.66 76.85 1,264.77	204.29
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	1,687.21 89.93 1,304.20	239.52
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,662.47 150.95 2,029.73	401.54
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	4,495.44 190.88 3,627.61	507.20
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	7,788.30 241.52 6,564.23	648.09
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)		
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	102.24 27.27	40.90
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	135.37 36.36	54.53
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	167.16 45.08	67.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	238.86 63.80	95.69
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	266.01 71.94	107.92
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	334.46 91.39	137.09
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting <i>For Work In Restricted Working Space, Add</i>	569.70 140.89	211.34
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	752.07 179.86	269.79
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting..... <i>For Work In Restricted Working Space, Add</i>	977.05 225.42	338.13
40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)		
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	66.72 13.64	22.73
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	84.23 18.18	30.30
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	101.62 22.54	37.57
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	139.90 31.90	53.18
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	153.48 35.97	59.95
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	196.29 45.70	76.15
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	296.27 70.45	117.36
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	364.05 89.93	239.52
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	463.64 112.71	187.81
40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	79.02 13.64	22.73
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	94.17 18.18	30.30
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	108.71 22.54	37.57
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	157.87 31.90	53.18
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	171.45 35.97	59.95
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	214.72 45.70	76.15
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	337.40 70.45	117.36
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	406.12 89.93	239.52
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	528.40 112.71	187.81
40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	96.04 22.43	33.64
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	102.99 23.81	35.71
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	114.65 26.17	39.25
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	134.40 28.55	42.81
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	144.12 31.46	47.18
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	160.31 35.04	52.57
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	215.09 44.81	67.22
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	246.75 52.47	78.69
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	309.77 62.87	94.29
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	434.83 78.55	117.81
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	693.57 120.15	180.22
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	966.49 160.19	240.28

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,475.97 240.29	360.44
40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,811.64 280.34	420.52
40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,210.59 319.79	479.67
40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,725.46 400.49	600.73
40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,601.29 560.69	841.03
40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,124.83 800.99	1,201.47
40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	110.70 22.43	33.64
40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	115.29 23.81	35.71
40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	123.17 26.17	39.25
40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	150.92 28.55	42.81
40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	160.64 31.46	47.18
40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	174.49 35.04	52.57
40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	239.66 44.81	67.22
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	274.16 52.47	78.69
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	374.04 62.87	94.29
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	507.62 78.55	117.81
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	875.08 120.15	180.22
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,206.16 160.19	240.28
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,780.41 240.29	360.44
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,292.88 280.34	420.52
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,786.10 319.79	479.67
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,544.97 400.49	600.73
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,649.82 560.69	841.03
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,744.23 800.99	1,201.47
40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	168.44 44.86	67.28
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	178.11 47.62	71.41
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	195.73 52.34	78.50
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	219.11 57.08	85.62
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	238.57 62.92	94.37
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	270.99 70.09	105.13
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	351.23 89.63	134.43
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	406.05 104.93	157.39
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	495.70 125.73	188.59
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	640.39 157.09	235.62
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,021.74 240.29	360.44
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,410.68 320.39	480.58
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,108.23 480.59	720.88
40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1093	EA		1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange.....	177.89	67.28
			<i>For Work In Restricted Working Space, Add</i>	44.86	
40 05 23 23-1094	EA		3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	187.08	71.41
			<i>For Work In Restricted Working Space, Add</i>	47.62	
40 05 23 23-1095	EA		1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	202.82	78.50
			<i>For Work In Restricted Working Space, Add</i>	52.34	
40 05 23 23-1096	EA		1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	233.77	85.62
			<i>For Work In Restricted Working Space, Add</i>	57.08	
40 05 23 23-1097	EA		1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	253.23	94.37
			<i>For Work In Restricted Working Space, Add</i>	62.92	
40 05 23 23-1098	EA		2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	280.90	105.13
			<i>For Work In Restricted Working Space, Add</i>	70.09	
40 05 23 23-1099	EA		2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	388.12	134.43
			<i>For Work In Restricted Working Space, Add</i>	89.63	
40 05 23 23-1100	EA		3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	442.91	157.39
			<i>For Work In Restricted Working Space, Add</i>	104.93	
40 05 23 23-1101	EA		4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	546.74	188.59
			<i>For Work In Restricted Working Space, Add</i>	125.73	
40 05 23 23-1102	EA		6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	784.57	235.62
			<i>For Work In Restricted Working Space, Add</i>	157.09	
40 05 23 23-1103	EA		8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,167.32	360.44
			<i>For Work In Restricted Working Space, Add</i>	240.29	
40 05 23 23-1104	EA		10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	1,645.14	480.58
			<i>For Work In Restricted Working Space, Add</i>	320.39	
40 05 23 23-1105	EA		12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange.....	2,409.82	720.88
			<i>For Work In Restricted Working Space, Add</i>	480.59	
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)					
40 05 23 23-1107	EA		1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	50.08	13.44
			<i>For Work In Restricted Working Space, Add</i>	8.97	
40 05 23 23-1108	EA		3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	52.53	14.27
			<i>For Work In Restricted Working Space, Add</i>	9.52	
40 05 23 23-1109	EA		1", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	57.13	15.69
			<i>For Work In Restricted Working Space, Add</i>	10.47	
40 05 23 23-1110	EA		1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	70.51	17.47
			<i>For Work In Restricted Working Space, Add</i>	11.65	
40 05 23 23-1111	EA		1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	84.15	23.61
			<i>For Work In Restricted Working Space, Add</i>	15.74	
40 05 23 23-1112	EA		2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	97.49	26.21
			<i>For Work In Restricted Working Space, Add</i>	17.47	
40 05 23 23-1113	EA		2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	130.67	33.70
			<i>For Work In Restricted Working Space, Add</i>	22.47	
40 05 23 23-1114	EA		3", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	166.40	47.22
			<i>For Work In Restricted Working Space, Add</i>	31.49	
40 05 23 23-1115	EA		4", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	260.91	78.68
			<i>For Work In Restricted Working Space, Add</i>	52.46	
40 05 23 23-1116	EA		6", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	350.59	101.18
			<i>For Work In Restricted Working Space, Add</i>	67.46	
40 05 23 23-1117	EA		8", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	479.40	112.14
			<i>For Work In Restricted Working Space, Add</i>	74.76	
40 05 23 23-1118	EA		10", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	698.93	134.57
			<i>For Work In Restricted Working Space, Add</i>	89.71	
40 05 23 23-1119	EA		12", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	915.02	168.20
			<i>For Work In Restricted Working Space, Add</i>	112.14	
40 05 23 23-1120	EA		14", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,159.61	210.26
			<i>For Work In Restricted Working Space, Add</i>	140.18	
40 05 23 23-1121	EA		16", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,464.43	239.84
			<i>For Work In Restricted Working Space, Add</i>	159.89	
40 05 23 23-1122	EA		18", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	1,748.38	300.37
			<i>For Work In Restricted Working Space, Add</i>	200.25	
40 05 23 23-1123	EA		20", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	2,344.11	420.52
			<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-1124	EA		24", 150#, Type 304 Stainless Steel Raised Face Blind Flange.....	3,402.10	600.73
			<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)					
40 05 23 23-1126	EA		1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	59.70	13.44
			<i>For Work In Restricted Working Space, Add</i>	8.97	
40 05 23 23-1127	EA		3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	61.53	14.27
			<i>For Work In Restricted Working Space, Add</i>	9.52	
40 05 23 23-1128	EA		1", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	64.69	15.69
			<i>For Work In Restricted Working Space, Add</i>	10.47	
40 05 23 23-1129	EA		1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	79.49	17.47
			<i>For Work In Restricted Working Space, Add</i>	11.65	
40 05 23 23-1130	EA		1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	93.13	23.61
			<i>For Work In Restricted Working Space, Add</i>	15.74	
40 05 23 23-1131	EA		2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	102.21	26.21
			<i>For Work In Restricted Working Space, Add</i>	17.47	
40 05 23 23-1132	EA		2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	163.76	33.70
			<i>For Work In Restricted Working Space, Add</i>	22.47	
40 05 23 23-1133	EA		3", 300#, Type 304 Stainless Steel Raised Face Blind Flange.....	197.36	47.22
			<i>For Work In Restricted Working Space, Add</i>	31.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1134 EA 4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	299.66	78.68
<i>For Work In Restricted Working Space, Add</i>	52.46	
40 05 23 23-1135 EA 6", 300#, Type 304 Stainless Steel Raised Face Blind Flange	510.35	101.18
<i>For Work In Restricted Working Space, Add</i>	67.46	
40 05 23 23-1136 EA 8", 300#, Type 304 Stainless Steel Raised Face Blind Flange	670.36	112.14
<i>For Work In Restricted Working Space, Add</i>	74.76	
40 05 23 23-1137 EA 10", 300#, Type 304 Stainless Steel Raised Face Blind Flange	931.48	134.57
<i>For Work In Restricted Working Space, Add</i>	89.71	
40 05 23 23-1138 EA 12", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,271.90	168.20
<i>For Work In Restricted Working Space, Add</i>	112.14	
40 05 23 23-1139 EA 14", 300#, Type 304 Stainless Steel Raised Face Blind Flange	1,754.85	210.26
<i>For Work In Restricted Working Space, Add</i>	140.18	
40 05 23 23-1140 EA 16", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,215.94	239.84
<i>For Work In Restricted Working Space, Add</i>	159.89	
40 05 23 23-1141 EA 18", 300#, Type 304 Stainless Steel Raised Face Blind Flange	2,879.40	300.37
<i>For Work In Restricted Working Space, Add</i>	200.25	
40 05 23 23-1142 EA 20", 300#, Type 304 Stainless Steel Raised Face Blind Flange	3,685.99	420.52
<i>For Work In Restricted Working Space, Add</i>	280.34	
40 05 23 23-1143 EA 24", 300#, Type 304 Stainless Steel Raised Face Blind Flange	5,609.18	600.73
<i>For Work In Restricted Working Space, Add</i>	400.49	
40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1145 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	75.24	22.73
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-1146 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	95.12	30.30
<i>For Work In Restricted Working Space, Add</i>	18.18	
40 05 23 23-1147 EA 1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	112.00	37.57
<i>For Work In Restricted Working Space, Add</i>	22.54	
40 05 23 23-1148 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	155.49	53.18
<i>For Work In Restricted Working Space, Add</i>	31.90	
40 05 23 23-1149 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	169.07	59.95
<i>For Work In Restricted Working Space, Add</i>	35.97	
40 05 23 23-1150 EA 2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	213.32	76.15
<i>For Work In Restricted Working Space, Add</i>	45.70	
40 05 23 23-1151 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	320.86	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-1152 EA 3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	395.73	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
40 05 23 23-1153 EA 4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	508.06	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)		
40 05 23 23-1155 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	91.31	22.73
<i>For Work In Restricted Working Space, Add</i>	13.64	
40 05 23 23-1156 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	106.46	30.30
<i>For Work In Restricted Working Space, Add</i>	18.18	
40 05 23 23-1157 EA 1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	121.00	37.57
<i>For Work In Restricted Working Space, Add</i>	22.54	
40 05 23 23-1158 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	181.51	53.18
<i>For Work In Restricted Working Space, Add</i>	31.90	
40 05 23 23-1159 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	195.09	59.95
<i>For Work In Restricted Working Space, Add</i>	35.97	
40 05 23 23-1160 EA 2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	235.52	76.15
<i>For Work In Restricted Working Space, Add</i>	45.70	
40 05 23 23-1161 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	384.20	117.36
<i>For Work In Restricted Working Space, Add</i>	70.45	
40 05 23 23-1162 EA 3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	453.86	239.52
<i>For Work In Restricted Working Space, Add</i>	89.93	
40 05 23 23-1163 EA 4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	604.49	187.81
<i>For Work In Restricted Working Space, Add</i>	112.71	
40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1165 EA 1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	106.90	33.64
<i>For Work In Restricted Working Space, Add</i>	22.43	
40 05 23 23-1166 EA 3/4", 150#, Type 316 Stainless Steel Weld Neck Flange	113.88	35.71
<i>For Work In Restricted Working Space, Add</i>	23.81	
40 05 23 23-1167 EA 1", 150#, Type 316 Stainless Steel Weld Neck Flange	126.94	39.25
<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-1168 EA 1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange	150.46	42.81
<i>For Work In Restricted Working Space, Add</i>	28.55	
40 05 23 23-1169 EA 1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	160.18	47.18
<i>For Work In Restricted Working Space, Add</i>	31.46	
40 05 23 23-1170 EA 2", 150#, Type 316 Stainless Steel Weld Neck Flange	176.85	52.57
<i>For Work In Restricted Working Space, Add</i>	35.04	
40 05 23 23-1171 EA 2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange	242.95	67.22
<i>For Work In Restricted Working Space, Add</i>	44.81	
40 05 23 23-1172 EA 3", 150#, Type 316 Stainless Steel Weld Neck Flange	271.79	78.69
<i>For Work In Restricted Working Space, Add</i>	52.47	
40 05 23 23-1173 EA 4", 150#, Type 316 Stainless Steel Weld Neck Flange	352.31	94.29
<i>For Work In Restricted Working Space, Add</i>	62.87	



Process Interconnections	40
Common Work Results For Process Interconnections	
Stainless Steel Process Pipe and Tubing	40 05 23

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1174	EA			6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	508.57 78.55	117.81
40 05 23 23-1175	EA			8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	807.49 120.15	180.22
40 05 23 23-1176	EA			10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,156.52 160.19	240.28
40 05 23 23-1177	EA			12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,727.00 240.29	360.44
40 05 23 23-1178	EA			14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,019.54 280.34	420.52
40 05 23 23-1179	EA			16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,481.89 319.79	479.67
40 05 23 23-1180	EA			18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,055.03 400.49	600.73
40 05 23 23-1181	EA			20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,011.89 560.69	841.03
40 05 23 23-1182	EA			24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,706.68 800.99	1,201.47
40 05 23 23-1183				300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)		
40 05 23 23-1184	EA			1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	124.88 22.43	33.64
40 05 23 23-1185	EA			3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	129.47 23.81	35.71
40 05 23 23-1186	EA			1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	137.35 26.17	39.25
40 05 23 23-1187	EA			1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	170.33 28.55	42.81
40 05 23 23-1188	EA			1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	180.05 31.46	47.18
40 05 23 23-1189	EA			2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	198.12 35.04	52.57
40 05 23 23-1190	EA			2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	280.32 44.81	67.22
40 05 23 23-1191	EA			3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	312.45 52.47	78.69
40 05 23 23-1192	EA			4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	444.94 62.87	94.29
40 05 23 23-1193	EA			6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	682.99 78.55	117.81
40 05 23 23-1194	EA			8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,054.25 120.15	180.22
40 05 23 23-1195	EA			10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,496.38 160.19	240.28
40 05 23 23-1196	EA			12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,206.76 240.29	360.44
40 05 23 23-1197	EA			14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,913.00 280.34	420.52
40 05 23 23-1198	EA			16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,571.35 319.79	479.67
40 05 23 23-1199	EA			18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,553.85 400.49	600.73
40 05 23 23-1200	EA			20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,919.30 560.69	841.03
40 05 23 23-1201	EA			24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,604.15 800.99	1,201.47
40 05 23 23-1202				150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1203	EA			1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	174.12 44.86	67.28
40 05 23 23-1204	EA			3/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	186.63 47.62	71.41
40 05 23 23-1205	EA			1", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	205.50 52.34	78.50
40 05 23 23-1206	EA			1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	254.73 57.08	85.62
40 05 23 23-1207	EA			1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	249.91 62.92	94.37
40 05 23 23-1208	EA			2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	273.81 70.09	105.13
40 05 23 23-1209	EA			2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	349.35 69.63	134.43
40 05 23 23-1210	EA			3", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	422.12 104.93	157.39
40 05 23 23-1211	EA			4", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	529.71 125.73	188.59
40 05 23 23-1212	EA			6", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	690.96 157.09	235.62
40 05 23 23-1213	EA			8", 150#, Type 316 Stainless Steel Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,126.18 240.29	360.44
40 05 23 23-1214	EA			10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange..... <i>For Work In Restricted Working Space, Add</i>	1,553.44 320.39	480.58

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1215 EA 12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,299.19 480.59	720.88
40 05 23 23-1216 300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217 EA 1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	187.35 44.86	67.28
40 05 23 23-1218 EA 3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	196.54 47.62	71.41
40 05 23 23-1219 EA 1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	212.28 52.34	78.50
40 05 23 23-1220 EA 1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	252.20 57.08	85.62
40 05 23 23-1221 EA 1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	271.66 62.92	94.37
40 05 23 23-1222 EA 2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	298.33 70.09	105.13
40 05 23 23-1223 EA 2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	429.23 89.63	134.43
40 05 23 23-1224 EA 3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	484.97 104.93	157.39
40 05 23 23-1225 EA 4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	611.96 125.73	188.59
40 05 23 23-1226 EA 6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	879.58 157.09	235.62
40 05 23 23-1227 EA 8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,265.17 240.29	360.44
40 05 23 23-1228 EA 10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,963.73 320.39	480.58
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,690.59 480.59	720.88
40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	54.50 8.97	13.44
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	60.58 9.52	14.27
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	67.99 10.47	15.69
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	79.01 11.65	17.47
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	92.65 15.74	23.61
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	111.67 17.47	26.21
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	152.89 22.47	33.70
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	190.99 31.49	47.22
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	302.50 52.46	78.68
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	417.24 67.46	101.18
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	638.68 74.76	112.14
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	824.67 89.71	134.57
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,277.59 112.14	168.20
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,530.81 140.18	210.26
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,963.82 159.89	239.84
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,327.88 200.25	300.37
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,099.87 280.34	420.52
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,510.37 400.49	600.73
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	75.77 8.97	13.44
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	77.60 9.52	14.27
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	80.76 10.47	15.69
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	114.01 11.65	17.47
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	127.65 15.74	23.61



Process Interconnections	40
Common Work Results For Process Interconnections	40 05
Stainless Steel Process Pipe and Tubing	40 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	141.44 17.47	26.21
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	224.28 22.47	33.70
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	259.05 31.49	47.22
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	403.65 52.46	78.68
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange..... <i>For Work In Restricted Working Space, Add</i>	687.63 67.46	101.18
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	853.78 74.76	112.14
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,464.69 89.71	134.57
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,790.46 112.14	168.20
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,551.32 140.18	210.26
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,256.97 159.89	239.84
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,247.60 200.25	300.37
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,387.99 280.34	420.52
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,253.05 400.49	600.73
40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23)		
Note: For high pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	21.74	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	26.28	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	31.61	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268)		
Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	75.72	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	75.67	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	115.68	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	61.95	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	102.51	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	82.08	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	94.43	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	144.86	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules.....	90.83	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	142.82	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	94.06	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules.....	118.57	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	192.45	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules.....	156.54	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules.....	195.05	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)		
40 05 23 23-1290 Needle Valves (40 05 23 23-1289)		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	310.87	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge.....	483.57	
40 05 23 23-1293 Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	295.93	
40 05 23 23-1295 Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG.....	1,167.17	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	307.05	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	67.92	

END OF SECTION 40

40 Process Interconnections**40 05 Common Work Results For Process Interconnections**

40 05 23 Stainless Steel Process Pipe and Tubing



MINOR	DESCRIPTION
CSI	UOM DESCRIPTION

TOTAL DIRECT	DEMOLITION
UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 Material Processing and Handling Equipment		
41 01 Operation and Maintenance of Material Processing and Handling Equipment⁽⁴¹⁾		
41 01 20 Operation and Maintenance of Piece Material Handling Equipment^(41 01)		
41 01 20 13 Operation And Maintenance Of Hoists Or Cranes^(41 01 20)		
41 01 20 13-0001 Maintenance^(41 01 20 13)		
41 01 20 13-0002 EA Regular Inspection.....	400.42	
41 01 20 13-0003 HR Hoist Or Crane Servicing, Labor Only.....	120.36	
41 01 20 13-0004 MO Hoist Or Crane Maintenance Contract.....	820.15	
41 20 Piece Material Handling Equipment⁽⁴¹⁾		
41 22 Cranes and Hoists^(41 20)		
41 22 23 Hoists^(41 22)		
41 22 23 13 Fixed Hoists^(41 22 23)		
41 22 23 13-0001 Air-Powered Chain Hoists^(41 22 23 13)		
Note: Excludes beam.		
41 22 23 13-0002 EA 500 LB Capacity, Air-Powered Chain Hoist	5,737.85	377.85
41 22 23 13-0003 EA 1,000 LB Capacity, Air-Powered Chain Hoist	5,803.40	377.85
41 22 23 13-0004 EA 2,000 LB Capacity, Air-Powered Chain Hoist	6,980.19	377.85
41 22 23 13-0005 EA 4,000 LB Capacity, Air-Powered Chain Hoist	8,812.32	503.79
41 22 23 13-0006 EA 6,000 LB Capacity, Air-Powered Chain Hoist	11,127.80	629.74
41 22 23 13-0007 EA 8,000 LB Capacity, Air-Powered Chain Hoist	13,107.85	925.46
41 22 23 13-0008 EA 10,000 LB Capacity, Air-Powered Chain Hoist	15,145.38	1,117.78
41 22 23 13-0009 EA 12,000 LB Capacity, Air-Powered Chain Hoist	16,872.84	1,117.78
41 22 23 13-0010 Electric Hoists^(41 22 23 13)		
41 22 23 13-0011 Electric Industrial Chain Hoists^(41 22 23 13-0010)		
Note: Includes 20' of chain. Excludes beams.		
41 22 23 13-0012 EA 500 LB Capacity, Electric Industrial Chain Hoist.....	4,077.42	365.25
For DC Electrical Operated, Add	836.17	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0013 EA 1,000 LB Capacity, Electric Industrial Chain Hoist.....	4,260.12	365.25
For DC Electrical Operated, Add	881.36	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0014 EA 2,000 LB Capacity, Electric Industrial Chain Hoist.....	4,719.06	365.25
For DC Electrical Operated, Add	993.08	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0015 EA 3,000 LB Capacity, Electric Industrial Chain Hoist.....	7,166.14	377.85
For DC Electrical Operated, Add	1,596.87	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0016 EA 4,000 LB Capacity, Electric Industrial Chain Hoist.....	6,158.20	377.85
For DC Electrical Operated, Add	1,342.65	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0017 EA 5,000 LB Capacity, Electric Industrial Chain Hoist.....	8,850.30	390.44
For DC Electrical Operated, Add	2,005.53	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0018 EA 6,000 LB Capacity, Electric Industrial Chain Hoist.....	7,970.38	428.22
For DC Electrical Operated, Add	1,750.30	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0019 EA 7,500 LB Capacity, Electric Industrial Chain Hoist.....	9,887.86	528.98
For DC Electrical Operated, Add	2,223.51	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0020 EA 10,000 LB Capacity, Electric Industrial Chain Hoist.....	11,720.94	538.79
For DC Electrical Operated, Add	2,697.21	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0021 EA 15,000 LB Capacity, Electric Industrial Chain Hoist.....	18,935.31	562.22
For DC Electrical Operated, Add	4,452.48	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0022 EA 20,000 LB Capacity, Electric Industrial Chain Hoist.....	22,721.96	585.64
For DC Electrical Operated, Add	5,386.96	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0023 EA 25,000 LB Capacity, Electric Industrial Chain Hoist.....	31,521.01	609.07
For DC Electrical Operated, Add	7,574.22	
For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0024 EA 30,000 LB Capacity, Electric Industrial Chain Hoist.....	40,389.75	667.64
For DC Electrical Operated, Add	9,761.98	
For Each LF Copper Conductor Bar, Add	10.50	

41 Material Processing and Handling Equipment**41 20 Piece Material Handling Equipment****41 22 Cranes and Hoists**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23 13-0025			Hand Chain Hoists <small>(41 22 23 13)</small>		
41 22 23 13-0026	EA		1,000 LB Capacity, Hand Chain Hoist.....	1,504.36	153.12
41 22 23 13-0027	EA		2,000 LB Capacity, Hand Chain Hoist.....	1,765.11	155.22
41 22 23 13-0028	EA		3,000 LB Capacity, Hand Chain Hoist.....	2,356.21	162.56
41 22 23 13-0029	EA		4,000 LB Capacity, Hand Chain Hoist.....	2,646.74	164.65
41 22 23 13-0030	EA		5,000 LB Capacity, Hand Chain Hoist.....	3,186.69	173.05
41 22 23 13-0031	EA		6,000 LB Capacity, Hand Chain Hoist.....	3,571.31	202.41
41 22 23 13-0032	EA		10,000 LB Capacity, Hand Chain Hoist.....	4,931.09	208.71
41 22 23 13-0033	EA		16,000 LB Capacity, Hand Chain Hoist.....	6,433.34	251.70
41 22 23 13-0034	EA		20,000 LB Capacity, Hand Chain Hoist.....	7,845.07	263.24
41 22 23 13-0035	EA		30,000 LB Capacity, Hand Chain Hoist.....	13,779.14	301.00

END OF SECTION 41



Process Gas and Liquid Handling, Purification, and Storage Equipment	43	43
Liquid Handling Equipment	43 20	
Dry Location Liquid Pumps	43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
43 Process Gas and Liquid Handling, Purification, and Storage Equipment		
43 20 Liquid Handling Equipment ⁽⁴³⁾		
43 23 Dry Location Liquid Pumps ^(43 20)		
43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)		
43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)		
43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)		
43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....	3,980.13	
43 24 Suspended Liquid Pumps ^(43 20)		
43 24 41 Archimedes Screw Pumps ^(43 24)		
43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)		
43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)		
43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....	3,292.14	
43 40 Gas and Liquid Storage ⁽⁴³⁾		
43 42 Pressurized Tanks And Vessels ^(43 40)		
43 42 41 Metallic Specialty Pressure Tanks ^(43 42)		
43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)		
43 42 41 00-0002 EA 250 Gallon Aboveground LP Gas Storage Tank.....	1,755.96	123.54
43 42 41 00-0003 EA 500 Gallon Aboveground LP Gas Storage Tank.....	3,238.87	185.30
43 42 41 00-0004 EA 1,000 Gallon Aboveground LP Gas Storage Tank.....	4,622.92	197.66

END OF SECTION 43

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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